KHALSA COLLEGE
GARHDIWALA-HOSHIARPUR
Affiliated to Panjab University, Chandigarh
Re-Accredited with 'A' Grade by NAAC

PROGRAMME AND COURSE OUTCOMES FOR ALL PROGRAMMES (2022-23)

BACHELOR OF ARTS (B.A.)

PROGRAM OUTCOMES (POs)	After completing BA program students will be able to: PO1: use the acquired knowledge in the field of social sciences, literature and humanities which make them sensitive and sensible enough. PO2: possess the social, economical, historical, geographical, political, ideological and philosophical tradition and thinking. PO3: appear for various competitive examinations or choose the post graduate programme of their choice. PO4: acquire the knowledge with human values framing the base to deal with various problems in life with courage and humanity. PO5: be ignited enough to think and act over for the solution of various issues prevailed in the human life to make this world better than ever. PO6: become a responsible citizen.

PROGRAM SPECIFIC OUTCOMES (PSOs)	After completing BA program, students will be able to: PSO1: possess a good knowledge and clarity of concepts related to the subjects chosen by the students. PSO2: apply the acquired knowledge to solve problems in the relevant field. PSO3: show a developed critical and analytical sense. PSO4: have a good vocabulary and writing skills appropriate to the subject. PSO5: have a wider mental horizon and better self-confidence.

COURSE OUTCOMES (COs)

SEMESTER-1		
COURSE CODE	COURSE NAME	COURSE OUTCOMES
COMPULSORY SUBJECTS		
0001	English	Students after completing this course, will be able to: CO1: describe two prominent genres of literature; poetry and prose. CO2: correctly use English grammar in writing and speaking. CO3: explain key concepts like Racism, American, Civil war, Slavery, Emancipation Proclamation. CO4: infer the important role played by regional/ writings. CO5: logically and objectively evaluate a text and communicate the same (both verbally and in writing) with clarity. CO6: read with fluency while simultaneously comprehending progress in English.
0002/0003	Punjabi/History and Culture Of Punjab	After completing Punjabi course the students can: CO1: ਕਾਵਿ ਸੁਮੇਲ ਪਾਠ ਪੁਸਤਕ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਆਧੁਨਿਕ ਦੌਰ ਦੇ ਕਵੀਆਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਦੁਆਰਾ ਸਮਾਜਿਕ ਮਸਲਿਆਂ ਬਾਰੇ ਸੂਝ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ । ਸਾਹਿਤਕ ਖੇਤਰ ਵਿਚ ਕਵੀਆਂ ਦੇ ਯੋਗਦਾਨ ਤੋਂ ਪ੍ਰੇਰਿਤ ਹੋ ਕੇ ਖੁਦ-ਬ-ਖੁਦ ਸਾਹਿਤਕ ਰਚਨਾ ਲਿਖਣ ਦੇ ਸਮਰੱਥ ਬਣਦੇ ਹਨ । ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਹੁਨਰ ਦਾ ਨਿਰਮਾਣ ਹੁੰਦਾ ਹੈ । CO2: ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੀਆਂ ਵੱਖ-ਵੱਖ ਵਿਧਾਵਾਂ ਕਵਿਤਾ, ਗ਼ਜ਼ਲ, ਗੀਤ ਅਤੇ ਰੁਬਾਈ ਦੇ ਕਲਾਤਮਕ ਪੱਖਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ । CO3: ਵਿਦਿਆਰਥੀ, ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਉੱਪਰ ਨਿਬੰਧ ਰਚਨਾ ਦੁਆਰਾ ਜੀਵਨ ਅਤੇ ਸਮਾਜ ਦੇ ਅਲੱਗ-ਅਲੱਗ ਪਹਿਲੂਆਂ ਨੂੰ ਆਪਣੇ ਨਜ਼ਰੀਏ ਤੋਂ ਦੇਖਣ-ਪਰਖਣ ਦੇ ਸਮੱਰਥ ਹੁੰਦੇ ਹਨ ਅਤੇ ਵਿਦਿਆਰਥੀ ਚਲੰਤ ਮਸਲਿਆਂ ਉੱਪਰ ਲਿਖਣ ਦੇ ਸਮੱਰਥ ਹੁੰਦੇ ਹਨ । ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਰਚਨਾਤਮਕ ਹੁਨਰ ਨੂੰ ਉਤਸ਼ਾਹ ਮਿਲਦਾ ਹੈ । CO4: ਪ੍ਰੈਸੀ ਰਚਨਾ (ਸੰਖੇਪ ਰਚਨਾ) ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਕਿਸੇ ਵੀ ਰਚਨਾ ਨੂੰ ਲਿਖਣ, ਪੜ੍ਹਨ, ਅਤੇ ਬੋਲਣ ਸਮੇਂ ਘੱਟ ਤੋਂ ਘੱਟ ਸ਼ਬਦਾਂ ਵਿਚ ਕਹਿਣ ਦੀ ਰੁਚੀ ਪੈਦਾ ਕਰਦੀ ਹੋਈ ਕਿਸੇ ਰਚਨਾ ਨੂੰ ਡੂੰਘਾਈ ਵਿਚ ਜਾ ਕੇ ਪਰਖ-ਪੜਚੋਲ ਕਰਨ ਦੇ ਸਮੱਰਥ ਬਣਾਉਂਦੀ ਹੈ । ਇਹ ਰਚਨਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ

		ਸਮੇਂ ਅਤੇ ਊਰਜਾ ਸ਼ਕਤੀ ਦੀ ਬੱਚਤ ਕਰਨਾ ਸਿਖਾਉਂਦੀ ਹੈ । ਵਿਦਿਆਰਥੀ ਆਪਣੀ ਗੱਲ ਨੂੰ ਸੰਖੇਪ ਅਤੇ ਸਪੱਸ਼ਟ ਕਹਿਣ ਦੇ ਕਾਬਿਲ ਬਣਦੇ ਹਨ । CO5: ਵਿਆਕਰਣ ਦੀ ਸਿੱਖਿਆ ਪ੍ਰਾਪਤ ਕਰਨ/ਪੜ੍ਹਨ ਸਮੇਂ ਵਿਦਿਆਰਥੀ ਜਿਥੇ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਬਾਰੇ ਡੂੰਘਾਈ ਵਿਚ ਗਿਆਨ ਹਾਸਿਲ ਕਰਦੇ ਹਨ ਉੱਥੇ ਪੰਜਾਬੀ ਦੇ ਇਕ-ਇਕ ਸ਼ਬਦ ਦੇ ਪਿੱਛੇ ਅੰਦਰੂਨੀ ਨਿਯਮਾਂ ਦੇ ਕਾਰਜਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ । ਭਾਸ਼ਾ ਦਾ ਇਕ-ਇਕ ਸ਼ਬਦ ਕਿਵੇਂ ਹੋਂਦ ਵਿਚ ਆਉਂਦਾ ਹੈ । ਫਿਰ ਸ਼ਬਦਾ ਤੋਂ ਵਾਕ, ਉਪਵਾਕ, ਪੈਰ੍ਹੇ ਅਤੇ ਫਿਰ ਸਮੁੱਚੀ ਰਚਨਾ ਕਿਵੇਂ ਤਿਆਰ ਹੁੰਦੀ ਹੈ । ਕਿਸੇ ਵੀ ਭਾਸ਼ਾ ਨੂੰ ਸਿੱਖਣ ਲਈ ਵਿਆਕਰਣ ਦੀ ਪੜ੍ਹਾਈ ਅਤੇ ਜ਼ਰੂਰੀ ਹੈ । Punjabi course outcomes translated into English CO1: Through the study of poetry composition textbook, students gain insight into social issues through the works of modern period poets. Being inspired by the contribution of poets in the literary field, they become capable of writing literary works on their own. Creative skills are encouraged in the students. CO2: Students acquire knowledge about various genres of literature poetry, ghazal, song, and Rubai. CO3: Students are able to examine different aspects of life and society from their own perspective through essay writing on various topics and students are able to write on current issues. Creative skills of students are encouraged. CO4: Pressi Rachna (brief composition) makes the student capable of in-depth analysis of any composition while creating interest in writing, reading, and speaking in minimum words. This composition teaches students to save time and energy. Students can express themselves concisely and clearly. CO5: While learning/reading grammar, students gain in-depth knowledge about their mother tongue, and they also gain information about the functions of grammatical rules behind each word of Punjabi. How each word of the language comes into being. Then how is the sentence, sub-

		sentence, paragraph, and whole composition prepared from the word? Studying grammar is essential for learning any language. History and Culture of Punjab After completion of this course, the students will be able to: CO1: explain about 1st civilization of Punjab i.e. Harappan culture, its social, economic & religious life. CO2: explain about Rig Vedic and later Vedic age, their political, social, economic and religious aspects. CO3: explain about Caste System, its origin and Evolution. CO4: explain about two epics i.e. Ramayana and Mahabharata. CO5: explain about the political condition of India on the end of Alexander's invasion, and the impact of Alexander's invasion on social and cultural life. CO6: explain about the position of women during Harappan, early Vedic and later Vedic Age. CO7: describe about important historical places of Punjab in the outline map of Punjab.
ELECTIVE SUBJECTS (ANY THREE)		
0008/0004/ 0007	Punjabi/English/Hindi	Punjabi CO1: ਭਾਈ ਵੀਰ ਸਿੰਘ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਪੜ੍ਹਾਕੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਕੁਦਰਤੀ ਖੂਬਸੂਰਤੀ ਰੱਬੀ ਪਿਆਰ ਤੇ ਜ਼ਿੰਦਗੀ ਦੇ ਰੁਝੇਵਿਆਂ ਵਿੱਚੋਂ ਖੂਬਸੂਰਤੀ ਦੀ ਝਲਕ ਨਜ਼ਰ ਆਉਂਦੀ ਹੈ। CO2. ਪ੍ਰੋ. ਪੂਰਨ ਸਿੰਘ- ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਕੁਦਰਤ, ਕਿਸਾਨ ਦੀ ਕਿਰਤ ਤੇ ਪੂਰਬੀ ਤੇ ਪੱਛਮੀ ਪੰਜਾਬ ਦੇ ਸੱਭਿਆਚਾਰ ਦੀ ਤਸਵੀਰ ਪੇਸ਼ ਕੀਤੀ ਹੈ। CO3. ਧਨੀ ਰਾਮ ਚਾਤ੍ਰਿਕ- ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰਮ ਤਿਉਹਾਰ ਤੇ ਮੇਲਿਆਂ ਨਾਲ ਸਬੰਧਤ ਤੇ ਦੇਸ਼ ਭਗਤੀ ਦੇ ਭਾਵ ਪ੍ਰਗਟਾਉਂਦੀ ਹੈ। CO4. ਪ੍ਰੋ. ਮੋਹਨ ਸਿੰਘ ਦੀ ਕਵਿਤਾ ਰਾਹੀਂ ਮਾਂ-ਬੋਲੀ, ਪੁਰਾਤਨ

		ਤੇ ਨਵਾਂ ਸੱਭਿਆਚਾਰਮ ਬਾਬੇ ਨਾਨਕ ਦੀ ਸੋਚ ਨੂੰ ਪ੍ਰਭਾਵਿਤ ਕਰਵਾਇਆ ਹੈ। CO5. ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ- ਦੀ ਕਵਿਤਾ ਦੇਸ਼ ਵੰਡ ਤੋਂ ਲੈ ਕੇ ਰਾਜਨੀਤੀ ਦੀਆਂ ਉਲੰਘਣਾ ਨੂੰ ਖੋਲਦੀ ਕਵਿਤਾ ਹੈ। CO6. ਬਾਬਾ ਬਲਵੰਤ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਜ਼ਿੰਦਗੀ ਦੇ ਹਾਲਤਾ ਨਾਲ ਜੂਝਣ ਤੇ ਜਿਉਣ ਦੀ ਵਿਧੀ ਦੱਸਦੀਆਂ ਹਨ। CO7. ਸਿਵ ਕੁਮਾਰ ਬਟਾਵਲੀ ਦੀ ਕਵਿਤਾ ਬ੍ਰਿਹੋ ਦੀ ਕਵਿਤਾ ਹੈ ਕਵੀ ਨੇ ਜ਼ਿੰਦਗੀ ਦੇ ਦੁੱਖਾਂ ਨੂੰ ਗੀਤਾ ਰਾਹੀ ਖੂਬਸੂਰਤੀ ਨਾਲ ਪੇਸ਼ ਕੀਤਾ ਹੈ। CO8. ਡਾ. ਹਰਿਭਜਨ ਸਿੰਘ- ਦੀ ਕਵਿਤਾ ਵਿੱਚ ਲੋਕਾਂ ਦੀ ਸੋਚ, ਹਾਲਾਤ ਤੇ ਡਾਕਟਰੀ ਸਹੂਲਤਾਂ ਦੀ ਦੁਰਵਰਤੋਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਹੈ। CO9 ਡਾ. ਜਗਤਾਰ - ਦੀ ਕਵਿਤਾ ਮਾਰਕਸਵਾਦੀ ਦ੍ਰਿਸ਼ਟੀਕੋਣ ਪੇਸ਼ ਕਰਦੀ ਹੈ। CO10. ਪੰਜਾਬੀ ਨਾਨਕ ਦੇ ਦਰਸ਼ਨ ਆਈ. ਸੀ ਨੰਦਾ ਦੇ ਇਕਾਂਗੀ ਵਿੱਚ ਮਨਜੋੜ ਵਿਆਹ ਦੀ ਸਮੱਸਿਆ ਨੂੰ ਪੇਸ਼ ਕੀਤਾ ਹੈ। CO11. ਬੇਈ ਮਾਨ ਇਕਾਂਗੀ ਵਿੱਚ ਗਰੀਬੀ ਦੀ ਮਜ਼ਬੂਰੀ ਦਾ ਨਿਜ਼ਾਇਜ਼ ਫਾਇਦਾ ਉਠਾਇਆ ਗਿਆ ਹੈ। CO12. 'ਤਾਸ਼ ਦੀ ਬਾਜੀ' ਅਮਰੀਕ ਸਿੰਘ ਨੇ ਘਰੇਲੂ ਨੌਕਰਾਂ ਨੌਕਰਾਂ ਦੀ ਆਪਸੀ ਸਹਿਮਤੀ ਤੇ ਆਪਣੇ ਮਾਲਕਾ ਦੀ ਸੇਵਾ ਦੀ ਗੱਲ ਕੀਤੀ ਹੈ। CO13. ਅੰਨੇ ਨਿਸ਼ਾਨਣੀ ਇਕਾਂਗੀ ਵਿੱਚ ਇਕਾਂਗੀਕਾਰ ਨੇ ਦੇਸ਼ ਦੀ ਵੰਡ ਸਮੇਂ ਹਾਲਾਤਾਂ ਨੂੰ ਬਿਆਨ ਕੀਤਾ ਹੈ ਕਿ ਲੋਕ ਬਿਨ੍ਹਾਂ ਸੋਚੇ ਸਮਝੇ ਇਕ ਦੁਸ਼ਮਣ ਰਹੇ। CO14. 'ਅੰਨੇ ਕਾਵ' ਇਕਾਂਗੀ ਵਿੱਚ ਠੇਕੇਦਾਰ ਵੱਲੋਂ ਮਜ਼ਦੂਰਾਂ ਦੀ ਕਿਰਤ ਕਮਾਈ ਦਾ ਸ਼ੋਸਜ਼ ਕੀਤਾ ਗਿਆ ਹੈ, ਖੋਜੀ ਆ ਕੇ ਮਜ਼ਦੂਰਾਂ ਨੂੰ ਸੁਚੇਤ ਕਰਦਾ ਕਿ ਤੁਹਾਡੇ ਨਾਲ ਧੋਖਾ ਹੋ ਰਿਹਾ ਹੈ। CO15. ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ 1901 ਤੋਂ 2000 ਤੱਕ ਭਾਸ਼ਾ, ਉਪਭਾਸ਼ਾ, ਸਾਹਿਤ ਦੇ ਰੂਪ-ਗੀਤ, ਗਜ਼ਲ, ਕਵਿਤਾਮ ਨਾਵਲ, ਕਹਾਣੀ ਆਦਿ। CO16. ਪੰਜਾਬੀ ਨਾਵਲ ਬਲਦੇ ਦੀਵੇ) ਵਿਸ਼ਾ, ਵਿਧੀ, ਪਲਾਟ ਤੇ ਪਾਤਰ-ਚਿਤਰਨ ਸਾਹਿਤ ਦੀ ਪਰਿਭਾਸ਼ਾ, ਪ੍ਰਕਿਰਤੀ, ਪ੍ਰਯੋਜਨ ਦੇ ਤੱਤ। Translation into English CO1: By teaching the poems of Bhai Vir Singh, the students get a glimpse of natural beauty, divine love and the beauty of life's busyness. CO2: Prof. Through Puran Singh's poems, nature, farmer's work and the culture of East and West

		Punjab have been presented. CO3: Dhani Ram Chatrik's poems express feelings of patriotism and celebration of Punjabi cultural festivals and fairs. CO4: Prof. Through the poetry of Mohan Singh, mother tongue, ancient and new culture have influenced the thinking of Baba Nanak. CO5: Amrita Pritam's poem is a poem that reveals the violation of politics since the partition of the country. CO6: Through the poems of Baba Balwant, they tell the method of living and coping with the conditions of life. CO7: Siv Kumar Batavli's poem is Briho's poem. The poet has beautifully presented the sorrows of life through Gita. CO8: Dr. Haribhajan Singh's poem has given information about people's thinking, conditions and misuse of medical facilities. CO9: Dr. Jagtar's poem presents a Marxist perspective. touch CO10: Darshan of Punjabi Nanak. C. Nanda's Ekanari presents the problem of arranged marriage. CO11: In Bei Maan Ikanri, the compulsion of poverty has been taken advantage of. CO12: 'Tash Di Baji' Amrik Singh has talked about the mutual consent of domestic servants and servants to serve their mistresses. CO13: In Anne Nishani Ekangi, the loner has described the situation at the time of partition of the country that the people remained one enemy without thinking. CO14: In 'Anne Kaw' Ekangi, the labor earnings of the workers are investigated by the contractor, the inspector comes and informs the workers that

		you are being cheated. CO15: History of Punjabi literature from 1901 to 2000 language, dialect, forms of literature-songs, ghazals, kavitam novels, stories etc. CO16: Punjabi Novel Balde Diwe) Theme, Method, Plot and Characterization Definition, Nature, Purpose Elements of Literature. English CO1: explain different literacy terms and concepts with important literary devices/ historical context or across a wide range of literary genres. CO2: describe about different genres of poetry, prose, drama, etc. CO3: develop a proper understanding of the grammatical system of the English language with equal emphasis on learning skills like reading, listening, speaking, and writing. CO4: achieve accuracy in writing skills and improve vocabulary. CO5: develop an understanding of various topics of grammar like the transformation of sentences. CO6: do critical analysis to get a better understanding of work in literature. CO7: use words/phrases etc. for effective English speaking and writing. HINDI
	कवितालोक (काव्य-पुस्तक) r कबीर r रैदास	r विद्यार्थी कबीर के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। r विद्यार्थी कबीर के पदों के माध्यम से निराकार ईश्वर के सम्बंध में ज्ञान प्राप्त करने के साथ-साथ उनकी हिन्दू-मुस्लिम की भक्ति को लेकर की गई आलोचना से यह समझने में सक्षम होंगे कि ईश्वर को आडम्बरों से नहीं, प्रेम से पाया जा सकता है।

	r गुरु नानक देव r सूरदास	r विद्यार्थी कबीर की साखियों से विविध मानवीय मूल्यों और नीति-आदर्शों का ज्ञान प्राप्त करेंगे। कबीर के सुखी और सहज जीवन जीने की कला से विद्यार्थी परिचित होकर लाभ प्राप्त करेंगे। r विद्यार्थी रैदास के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। r विद्यार्थी रैदास के पदों और साखियों से यह सीखेंगे कि निराकार की भक्ति के लिए प्रेम और विशुद्ध मन की आवश्यकता होती है। वे यह समझेंगे कि ईश्वर भक्ति के मन की भावना को देखकर उस पर अपना प्रेम बरसाता है। r विद्यार्थी गुरु नानक देव के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। r विद्यार्थी गुरु नानक देव जी की आदि ग्रंथ में संकलित वाणी से उनके विविध विचारों से परिचित होंगे। गुरु जी की वाणी निर्भय-निरवैर रहकर प्रत्येक मनुष्य को ईश्वर की रज़ा में रहकर जीवन जीने की कला सिखाती है। r विद्यार्थी सूरदास के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। r विद्यार्थी बाल-लीला, मथुरा गमन, भ्रमर-गीत आदि रचनाओं के माध्यम से सूरदास की कृष्ण भक्ति से परिचय प्राप्त करेंगे। सूरदास ने शृंगार और वात्सल्य रसों के माध्यम से कृष्ण जी के ऐसे-ऐसे चित्र प्रस्तुत किये हैं, जो सभी को भाव-विभोर करने में सक्षम हैं। r विद्यार्थी कथा-साहित्य के माध्यम से समाज और जीवन की विविध समस्याओं से अवगत होंगे और उन समस्याओं के समाधान के लिए प्रेरित होंगे। उनमें समस्या-समाधान की क्षमता विकसित होगी। r शतरंज के खिलाड़ी कहानी के माध्यम से विद्यार्थी यह जानने में सक्षम होंगे कि किसी भी काम में की गई अति सदैव हानिकारक होती है। साथ ही विद्यार्थी लखनऊ के नवाबी दौर की विविध

	सजीव कहानियां r शतरंज के खिलाड़ी r ममता r अशिक्षित का हृदय r मौत के मुँह में r न्याय मंत्री r गुलाब r सत्य-असत्य	परिस्थितियों और जीवन शैली का परिचय प्राप्त करेंगे। r ममता कहानी के माध्यम से विद्यार्थी मुगलिया दौर में पठान-मुगलों की साम-दाम की नीति को समझने के साथ-साथ हिन्दुओं के सनातनी मूल्यों और आदर्श परम्पराओं का परिचय प्राप्त करेंगे। सहिष्णुता, अतिथि-सत्कार, छल-कपटहीन आचरण जैसे गुणों को जानकर विद्यार्थियों में नवीन जीवन-मूल्यों का आविर्भाव होगा। r अशिक्षित का हृदय कहानी के माध्यम से विद्यार्थी यह समझने में सक्षम होंगे कि सच्चे मन और सच्ची नीयत वाला व्यक्ति सदैव समाज में आदर-सम्मान पाता है। अशिक्षित होकर भी कोई व्यक्ति अपने आचरण और सच्चाई से सबका विश्वास प्राप्त कर सकता है। इस कहानी से विद्यार्थियों को यह सीख भी मिलती है कि जीने के लिए कई बार निर्जीव वस्तुएँ भी सहारा बन सकती हैं। r मौत के मुँह में कहानी के माध्यम से विद्यार्थी यह जानने में सक्षम होंगे कि आपदा में होश-हवास कायम रखकर और हिम्मत से काम लेकर बड़े-से-बड़े खतरे से भी पार पाया जा सकता है। इस कहानी से यह सीख भी मिलती है कि विद्यार्थियों को शस्त्र और शास्त्र दोनो का ज्ञान होना चाहिए, तभी वे जीवन के हर क्षेत्र में सफल हो सकेंगे। r न्याय मंत्री कहानी के माध्यम से विद्यार्थी आज से ख्र वर्ष पूर्व सम्राट अशोक के समय की न्याय व्यवस्था का ज्ञान प्राप्त करेंगे और अपनी तर्क-शक्ति को विकसित करने का प्रयास करेंगे। r गुलाब कहानी के माध्यम से विद्यार्थी यह जानने में सक्षम होंगे कि कैसे कोई गरीब परन्तु रहमदिल व्यक्ति एक खोई हुई मासूम बालिका के लिए अपने जीवन-भर की कमाई लुटा देता है और उसके वापिस लौट जाने पर अपने प्राण त्याग देता है। वे यह जान पाएँगे कि इंसानियत का सम्बंध धन-दौलत से नहीं बल्कि हृदय की निरीहता से होता है। r सत्य-असत्य कहानी के माध्यम से विद्यार्थी समाज के सत्य और असत्य कहलाने वाले वर्गों से परिचय प्राप्त करेंगे और जानेंगे कि अपनों पर कष्ट आने पर कैसे सत्य कहलाने वाले उच्च वर्ग के

		लोगों का खून सफैद हो जाता है और असत्त्य कहे जाने वाला निर्धन वर्ग अभाव और विपरीत परिस्थितियों में भी अपनी फ़राख़दिली का परिचय देता है।
	हिन्दी साहित्य का इतिहास r आदिकाल	r विद्यार्थी हिन्दी साहित्य के इतिहास का परिचय प्राप्त करेंगे। r विद्यार्थी हिन्दी साहित्य के सृजन की पृष्ठभूमि और साहित्यिक प्रवृतियों को समझने में सक्षम होंगे। r विद्यार्थी साहित्य के माध्यम से जीवन-मूल्यों और जीवन-दर्शन को समझने का प्रयास करेंगे। r आदिकाल की राजनैतिक, सामाजिक, धार्मिक, आर्थिक परिस्थितियों, साहित्यिक प्रवृतियों, नामकरण की समस्या, पृथ्वीराज रासो, बीसलदेव रासो आदि रचनाओं से परिचित होकर विद्यार्थी आदिकाल के साहित्य के विषय में समुचित ज्ञान प्राप्त करेंगे और इस काल-खण्ड के साहित्य की निर्माण प्रक्रिया को समझने में सक्षम होंगे।
	समीक्षा सिद्धांत r हिन्दी कहानी	r हिन्दी कहानी विधा की शास्त्रीय पद्धति से विद्यार्थियों का परिचय कराया जाएगा। समीक्षा सिद्धांत के महत्व को प्रतिपादित किया जाएगा। r हिन्दी कहानी की परिभाषा, कहानी के विविध तत्व और कहानी के बहु-आयामी वर्गीकरण से विद्यार्थियों को परिचित कराया जाएगा।
	व्यावहारिक व्याकरण r समानार्थक शब्द r विपरीतार्थक शब्द	r शुद्ध भाषा लिखने एक कला है। अत: यह आवश्यक है कि प्रत्येक वाVय को शुद्ध रूप में पढ़ा/लिखा जाए। उसके लिए व्याकरण का ज्ञान और अत्त्यास परमावश्यक है। r हिन्दी व्याकरण से विद्यार्थी व्यावहारिक हिन्दी का ज्ञान प्राप्त करेंगे। r विद्यार्थी भाषा के व्यावहारिक पक्ष को जान पाएंगे और समानार्थक शब्द, विपरीतार्थक शब्द और अनेक शब्दों के लिए एक

	r अनेक शब्दों के लिए एक शब्द r शब्द और वाIय शुद्धि r पारिभाषिक शब्दावली	शब्द आदि का ज्ञान प्राप्त करके अपनी शब्द–सम्पदा में वृद्धि कर पाएंगे। r शब्द और वाIय शुद्धि का अत्यास करके विद्यार्थी भाषा को शुद्ध और व्याकरण–सम्मत लिखने में सक्षम हो पाएंगे। r पारिभाषिक शब्दावली का ज्ञान प्राप्त कर विद्यार्थी यह जान पाएंगे कि विविध कार्यालयों में हिन्दी की पारिभाषिक शब्दावली का सटीक प्रयोग कैसे किया जाता है और इसकी आवश्यक्ता एवं उपयोगिता क्या है।
0023	History (History of India upto 1200 AD)	After completion of this course, the students will be able to: CO1: explain about the major sources of ancient Indian History i.e. Indigenous Literature and foreign accounts, Archaeological findings, inscriptions, coins. CO2: state about India's oldest and first civilization i.e. Harappan civilization; it's extent, town planning, social, religious and economic life. CO3: explain about life in Vedic and later Vedic age; It's Political, Economic, Social and Religious life CO4: explain about the Republic and Kingdom 600-321 B.C. CO5: explain about new religions in India in 6th century B.C. CO6: describe about the first empire of India i.e. The Mauryan Empire, it's Central and Provincial Administration sentence, suicidal and local administration, Ashoka's Dhamma CO7: state about the post Mauryan period, Decline of Mauryan and Kanishka and his achievements. CO8: state about the Gupta Empire i.e. the rise of Gupta's and social, economic, cultural, and scientific developments under Guptas.

		CO9: describe about the rise of southern kingdoms i.e. Administration under Pallavas, Rashtrakutas and Chalukyas. CO10: explain about Regional Kingdoms in the North i.e. Administration under Harsh vardhana Origin of Rajputs. CO11: explain about south Indian states i.e Administration traction under cholas, Taxation and trade under Pandayas. CO12: explain about Physical maps i.e. important historical places of ancient Indian literacy, Extent of Harappan civilization, Mauryan kingdom under Ashoka.
MAT-0043	Mathematics (Plane Geometry)	After completing the course, students will be able to: CO1: analyze the concept of transformation of axes in two dimensions. CO2: describe the pair of straight lines, condition of parallelism and perpendicularity, joint equation of angle bisectors. CO3: solve the problems related to the concepts of circle and properties of circle, chord of contact, radical axis, co- axial family of circles, limiting points. CO4: discriminate about tangents, normals and their properties. CO5: calculate the properties of ellipse, Conjugate diameter of ellipse, hyperbola, asymptote and rectangular hyperbola. CO6: identify conics in general second degree equations. CO7: examine the general equations of second degree, tracing of ellipse, hyperbola and parabola and also get to know about the conics. They get to know whether a given second degree equation

		is a hyperbola or ellipse or parabola.
MAT-0044	(Calculus-I)	After completing the course, students will be able to: CO1: describe fundamental concepts of real numbers. CO2: solve the problems of Indeterminate forms and L'Hospital's Rule to find their limits CO3: verify the value of the limit of a function at a point using the definition of the limit. CO4: examine whether function is continuous or not, understand the consequences of the intermediate value theorem for continuous functions. CO5: apply various general Theorems like Rolle's Theorem, Lagrange's theorem, Cauchy Mean Value theorem, Taylor's theorem and their geometrical interpretation. CO6: analyze Hyperbolic and inverse hyperbolic functions, Successive differentiation and Leibnitz's theorem.
MAT-0045	(Trignometry and Matrices)	After completing the course, students will be able to: CO1: operate methods to solve the equations CO2: recognize consistent and inconsistent system of linear equations by using row and column echelon form of the augmented matrix. CO3: solve linear equation using matrix method. CO4: apply Cayley Hamilton Theorem for finding the inverse of matrix. CO5: describe rank, Linear independence and dependence of matrices. CO6: appraise the importance of roots of real and complex polynomials. CO7: apply the applications of De Moivre's theorem to solve numerical problems. CO8: check diagonalisibility of matrices by finding Eigen values and vectors. CO9: calculate Hermitian and skew Hermitian matrices

		and their properties.
0015	Agriculture (Basics of Agricultural Botany and Forestry)	After the completion of the course, the students will be able to: CO1: explain about the plant morphology - root, stem, leaf -their types and modifications. CO2: explain about the Inflorescence - types and classification. CO3: explain about flower parts and their functions. CO4: describe about fruit - Types and classification. CO5: state about pollination - types, significance, emasculation, techniques, mode of reproduction and their significance Life cycle of a typical angiosperm. CO6: get skilled in plant breeding, introduction to self Incompatibility. CO7: explain about the cultivation practices including Soil requirements, water requirements, and improved varieties of the region for: Cereals (wheat, rice, maize), Fibres (cotton, Jute), oil Crops (sarson, soyabean), Fruits (mango, grapes, citrus, sapota). CO8: explain the importance of forests, important forest trees of India and status of forestry in Punjab, its significance. Raising of Nurseries for forestry. Social forestry: Definition, concept and its significance.
0095	Retail Marketing	The students who successfully complete this course will be able to: CO1: describe the theoretical and applied aspects of Retail marketing. CO2: define the various methods of classifying Retail formats. CO3: compare and contrast single Retail channel with Multi-Channel Retailing.

		CO4: recognize the challenges faced by Multichannel Retailers. CO5: summarize the data that could be collected to support the multichannel shopping experience of the future. CO6: describe the various retail Marketing Environment issues.
	Computer Science	
CS01	(Computer Fundamentals)	The students after completing this course, will be able to: CO1: identify the components of a personal computer system. CO2: do conversions in basic computer terminology. CO3: describe the basic hardware peripherals. CO4: describe the memory management. CO5: state the different types of software. CO6: explain about the operating system and its types.
CS02	(PC Software)	The students after completing this course, will be able to: CO1: solve common problems related to operating systems. CO2: use word processing, Spreadsheet and Presentation Graphics Software skills. CO3: compose, format and edit a word document, Excel, Presentation Slides.
PCS01	(Practical Based on Paper CS02)	The students after completing this course, will be able to: CO1: state the working of Input and output devices. CO2: run Internal and external DOS commands. CO3: create Word, Excel, Presentation files and apply various commands on it.
0036	Physical Education	After the completion of the course, the students will be able to:

		CO1: explain about Preliminary idea and History of Physical Education. CO2: describe the importance of warming up and Physical education. CO3: Analyse the behavior of India and World Physical Education CO4: organize the standard tournaments or competitions. CO5: develop Leadership skills. CO6: describe about components of physical fitness. CO7: describe about all sports schemes of physical education.
0080	Fashion Designing (Fundamentals of Clothing)	After the course, the students will be able to: CO1: use various tools in garment construction. CO2: do correct body measurements. CO3: apply the Garment construction techniques. CO4: use the techniques of Traditional Embroideries of India.
0017	Economics (Micro Economics)	Students after completing this course will be able to: CO1: describe the basic concepts and models of Economics. CO2: analyze Consumer's behavior, demand analysis and demand forecasting. CO3: explain the concept of supply and law of supply. CO4: describe the concepts of cost and revenue Analysis. CO5: explain the market structure, price and output determination. CO6: describe production function theory and equilibrium. CO7: explain the various concepts of cost and traditional theory of cost. CO8: employ Factor pricing such as rent, wage, interest

		and profit. CO9: describe features of perfect competition, monopoly monopolistic competition, and to determine equilibrium under different market situations.
MUV0030	Music (Vocal)	On Completion of this course students would be able to: CO1: describe the basic terminologies of Indian music. CO2: write the practical compositions according to the Notation system. CO3: observe great contribution of Pt. V.N. Bhatkhande and they would be able to read and write compositions by studying notation system created by the legends. CO4: give a practical demonstration of the prescribed Ragas and to demonstrate various aspects of Ragas and their differentiation. CO5: describe the value of Indian Classical Music in modern period. CO6: play the basic Alankars on harmonium to know about the Swara notes.
0033	Political Science (Political Theory-I)	After the course, the students will be able to: CO1: describe the significance of political theory. CO2: explain the theories, approaches, concepts and principles of political theory. CO3: describe the procedure of different theoretical ideas in political theory. CO4: interpret and assess information regarding a variety of political theory. CO5: explain the various traditional and modern theories of political science. CO6: evaluate the theories of origin of the state. CO7: comprehend the sources of political information.

SEMESTER-II		
COMPULSORY SUBJECTS		
0101	English	After this course, the students will be able to: CO1: describe the prescribed English text 'English and work' that represents vast knowledge of distinct cultures, manners, and experiences of various authors which helps the students to expand their horizons. CO2: develop an understanding of various topics of grammar like Narration, Conjunctions, etc. CO3: correctly use grammar. CO4: developing and improve reading, writing, speaking, and listening skills. CO5: do translation which would be helpful for effective English speaking.
0102/0103	Punjabi/History and Culture of Punjab	After completing Punjabi course, the students can: CO1: 'ਕਥਾ ਕਹਾਣੀ' ਪਾਠ ਪੁਸਤਕ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਜਿਥੇ ਕਹਾਣੀਕਾਰਾਂ ਦੇ ਜੀਵਨ ਅਤੇ ਚਰਨਾ ਸਬੰਧੀ ਸੰਖੇਪ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ ਉਥੇ ਕਹਾਣੀਕਾਰਾਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਦੁਆਰਾ ਸਮਾਜਿਕ, ਆਰਥਿਕ ਅਤੇ ਸਭਿਆਚਾਰਕ ਮਸਲਿਆਂ ਬਾਰੇ ਸੂਝ ਪ੍ਰਾਪਤ ਕਰਕੇ ਸਮਾਜ ਅੰਦਰ ਆਪਣਾ ਬਣਦਾ ਯੋਗਦਾਨ ਪਾਉਣ ਲਈ ਉਤਸ਼ਾਹਿਤ ਹੁੰਦੇ ਹਨ । ਇਨ੍ਹਾਂ ਸਾਹਿਤਕ ਰਚਨਾਵਾ ਦੁਆਰਾਂ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸੁਹਜ ਤ੍ਰਿਪਤੀ ਵੀ ਹੁੰਦੀ ਹੈ । CO2: ਵਿਦਿਆਰਥੀ ਸੂਚਨਾ ਹਿੱਤ ਨੋਟਿਸ ਲਿਖਣ ਵਾਲੇ ਭਾਗ ਨੂੰ ਪੜ੍ਹਦੇ ਸਮੇਂ ਸਾਹਿਤਕ, ਸਭਿਆਚਾਰਕ ਅਤੇ ਖੇਡ ਖੇਤਰ ਨਾਲ ਜੁੜੇ ਮਸਲਿਆਂ ਤੋਂ ਜਾਣੂੰ ਹੁੰਦੇ ਹਨ ਉਥੇ ਇਨ੍ਹਾਂ ਮਸਲਿਆਂ ਉੱਪਰ ਖੁਦ ਲਿਖਣ ਦੇ ਸਮੱਰਥ ਹੋ ਕੇ ਸਮਾਜ ਅੰਦਰ ਘੱਟ ਪੜ੍ਹੇ-ਲਿਖੇ ਜਾ ਅਨਪੜ੍ਹ ਵਰਗ ਦੇ ਲੋਕਾਂ ਦੀ ਮੱਦਦ ਕਰਨ ਦੇ ਸਮਰੱਥ ਬਣਦੇ ਹਨ । CO3: ਵਿਦਿਆਰਥੀ, ਮੁਹਾਵਰੇ ਅਤੇ ਅਖਾਣ ਵਾਲੇ ਭਾਗ ਨੂੰ ਪੜ੍ਹਦੇ ਸਮੇਂ ਆਪਣੇ ਖਿੱਤੇ ਦੇ ਸਭਿਆਚਾਰ ਅਤੇ ਸਮਾਜ ਨਾਲ ਜੁੜ ਕੇ ਆਪਣੇ ਅਤੇ ਦੂਸਰੇ ਖਿੱਤਿਆਂ ਦੀ ਭਾਸ਼ਾ ਦੇ ਠੇਠ ਪੰਜਾਬੀ ਸ਼ਬਦਾਂ ਨੂੰ ਸਮਝਣ ਅਤੇ ਸਿੱਖਣ ਦੇ ਸਮੱਰਥ ਹੁੰਦੇ ਹਨ । CO4: ਵਿਆਕਰਣ ਦੀ ਸਿੱਖਿਆ ਪ੍ਰਾਪਤ ਕਰਨ/ਪੜ੍ਹਨ ਸਮੇਂ ਵਿਦਿਆਰਥੀ ਜਿਥੇ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਬਾਰੇ ਡੂੰਘਾਈ ਵਿਚ ਗਿਆਨ ਹਾਸਿਲ ਕਰਦੇ ਹਨ ਉੱਥੇ ਪੰਜਾਬੀ ਦੇ ਇਕ-ਇਕ ਸ਼ਬਦ ਦੇ ਪਿੱਛੇ ਅੰਦਰੂਨੀ ਨਿਯਮਾਂ ਦੇ ਕਾਰਜਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ । ਭਾਸ਼ਾ ਦਾ ਇਕ-ਇਕ ਸ਼ਬਦ ਕਿਵੇਂ ਹੋਂਦ ਵਿਚ ਆਉਂਦਾ ਹੈ । ਫਿਰ ਸ਼ਬਦਾ ਤੋਂ ਵਾਕ, ਉਪਵਾਕ, ਪੈਰ੍ਹੇ ਅਤੇ ਫਿਰ

		ਸਮੁੱਚੀ ਰਚਨਾ ਕਿਵੇਂ ਤਿਆਰ ਹੁੰਦੀ ਹੈ । ਕਿਸੇ ਵੀ ਭਾਸ਼ਾ ਨੂੰ ਸਿੱਖਣ ਲਈ ਵਿਆਕਰਣ ਦੀ ਪੜ੍ਹਾਈ ਅਤੇ ਜ਼ਰੂਰੀ ਹੈ । Punjabi course outcomes translated into English CO1: Through the study of the textbook Katha Kahani where the students get brief information about the life of the storytellers, they are encouraged to contribute to society by gaining insight into the social, economic, and cultural issues through the works of the storytellers. Through these literary works, the students also get aesthetic satisfaction. CO2: Students are aware of issues related to the literary, cultural, and sports fields while reading the information interest note writing section and can write on these issues themselves to help the less educated or illiterate people in society become capable CO3: Students can understand and learn common Punjabi words of their own and other regions & languages by connecting with the culture and society of their region while reading the Idioms and Phrases section. CO4: While learning/reading grammar, students gain in-depth knowledge about their mother tongue, and they also gain information about the functions of internal rules behind each word of Punjabi. How each word of the language comes into being. Then how is the sentence, sub-sentence, paragraph, and whole composition prepared from the word? Studying grammar is essential for learning any language. History and Culture of Punjab After competition of this course, the students will be able to: CO1: describe about first empire of India which was Originated in Punjab i.e. Mauryan empire, its

		social, economic and religious life. CO2: explain about new religions originated in India in 6th century i.e. Buddhism and Jainism, Their impact and Punjab with special reference to 4th Buddhist Council. CO3: explain about the Kushanas dynasty, impact of Kanishka's rule on Punjab. CO4: explain about the Gandhara School of Art. CO5: explain about the Cultural and Scientific Developments under the Guptas. CO6: explain about the position of women under the Mauryas, Guptas and the Vardhanas. CO7: explain about Depiction of Punjab in the account of chinese travelers, Fahien and When Tsang. CO8: explain about main development in Literature. CO9: describe about education in ancient times and Significant development of Taxila. CO10: explain about social and culture on the eve of The Turkish Invasion of Punjab. CO11: explain about Punjabi in the Kitab-ul-Hind of Alberuni. CO12: explain about important historical places of Punjab in an outline map of Punjab.
393	Environment and Road Safety Education	After the course, the students will be able to: CO1: describe about plant and animal distribution patterns in relation to biotic and biotic factors. CO2: explain about essential characteristics underlying Natural ecosystems. CO3: describe about the model population and community-level dynamics. CO4: interpret and present ecological results. CO5: identify Global environmental problems. CO6: explain about Social issues and Environment issue. CO7: describe the significance of road safety.

		CO8: state about Police-Public relationship, Traffic rule and Traffic signs. CO9: describe about Protective provisions against domestic and sexual violence. CO10: explain about the Protective laws for women. CO11: explain about the problem of drugs abuse. CO12: describe about the drugs and its effects. CO13: describe about the prevention and management of drug abuse.
ELECTIVE SUBJECTS		
0109/0105/ 0108	Punjabi/English/Hindi ‘ਨਕਸ਼ ਨੁਹਾਰ’ ਕਾਵਿ ਪੁਸਤਕ	Punjabi CO1: ਪਾਸ਼- ਚਿੰਨਾ ਤੇ ਸੰਕੇਤਾਂ ਦਾ ਮਾਧਿਅਮ ਬਣਾ ਕੇ ਆਪਣੇ ਜੁਝਾਰੂ ਵਿਦਰੋਹੀ ਭਾਵਾਂ ਨੂੰ ਪੇਸ਼ ਕਰਦਾ ਹੈ। ਉਸਦਾ ਇਹ ਜੀਵਨ ਅਨੁਭਵ ਕੌਮ ਵਿੱਚ ਨਵੀਂ ਸੂਝ ਪੈਦਾ ਕਰਦਾ ਹੈ। ਉਹ ਸਾਮਰਾਜਵਾਦ ਨੂੰ ਅਸਲ ਰੂਪ ਵਿੱਚ ਪੇਸ਼ ਕਰਦਾ ਹੈ ਨਾਂ ਕਿ ਜਬਰ, ਜੁਲਮ ਤੇ ਅਨਿਆਂ ਹੇਠ ਕੁਚਲੀ ਹੋਈ ਜਿੰਦਗੀ ਤੇ ਖੁਸ਼ੀ ਨੂੰ ਲਾਰਿਆਂ ਤੇ ਸੁਪਨਿਆਂ ਹੇਠ ਲਪੇਟਣਾ ਨਹੀਂ ਚਾਹੁੰਦਾ। CO2 ਸੰਤ ਰਾਮ ਉਦਾਸੀ-ਦੇ ਗੀਤ ਤੇ ਕਵਿਤਾਵਾਂ ਵਿੱਚ ਦੇਸ਼-ਪਿਆਰ ਤੋ ਇਲਾਵਾ ਸਰਮਾਏਦਾਰੀ, ਜਗੀਰਦਾਰੀ ਦੀ ਲੁੱਟ-ਖਸੁੱਟ ਨੂੰ ਖਤਮ ਕਰਨ ਦੇ ਭਾਵ ਪ੍ਰਗਟ ਕੀਤੇ ਹਨ। ਕਵੀ ਕਿਸਾਨਾਂ ਨੂੰ ਆਪਣੇ ਹੱਕ ਪ੍ਰਾਪਤ ਕਰਨ ਲਈ ਇਕੱਠੇ ਹੋ ਕੇ ਹੰਭਲਾਂ ਮਾਰਨ ਲਈ ਕਹਿੰਦਾ ਹੈ ਤੇ ਗਰੀਬ ਕਿਰਤੀ ਲੋਕਾਂ ਦੀ ਦੁਰਦਸ਼ਾ ਭਰੀ ਹਾਲਤ ਨੂੰ ਬਿਆਨ ਕਰਦਿਆਂ ਕ੍ਰਾਤੀਕਾਰੀ ਭਾਵ ਪ੍ਰਗਟ ਕਰਦਾ ਹੈ। ਉਹ ਕ੍ਰਾਂਤੀ ਲਿਆ ਕੇ ਉਸਦੀ ਮਿਹਨਤ ਦੇ ਮਿੱਠੇ ਫਲ ਦੀ ਰਾਖੀ ਕਰਨ ਦੀ ਪ੍ਰੇਰਨਾ ਦਿੰਦਾ ਹੈ। CO3 ਸਰਜੀਤ ਪਾਤਰ-ਕਵੀ ਸੰਘਰਸ਼ੀਲ ਰਹਿ ਕੇ ਬੰਦੇ ਨੂੰ ਵਫਾਦਾਰੀ, ਕੌਲਾਂ ਤੇ ਇਕਰਾਰਾਂ ਭਰੇ ਜੀਵਨ ਜਿਊਣ ਦੀ ਥਾਂ ਸ਼ਿਦਤ ਭਰਿਆ ਜੀਵਨ ਗੁਜਾਰਨ ਦੀ ਸਲਾਹ ਦਿੰਦਾ ਹੈ। ਮਾਂ ਦੀ ਸੰਵੇਦਨਾਂ ਨੂੰ ਬਿਆਨ ਕਰਦਾ ਹੋਇਆ ਦੱਸਦਾ ਹੈ ਕਿ ਮਾਂ ਆਪਦੇ ਪੁੱਤਰ ਦੇ ਕਾਗਜਾਂ ਨੂੰ ਸੀਨੇ ਨਾਲ ਲਾ ਕੇ ਰੱਖਦੀ ਹੈ। CO4 ਜਸਵੰਤ ਦੀਦ-ਕਵੀ ਇਹ ਦੱਸਣ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰਦਾ ਹੈ ਕਿ ਵਰਤਮਾਨ ਮਨੁੱਖ ਲਈ ਮਾਪਿਆਂ, ਪ੍ਰੇਮਿਕਾ ਤੇ ਪਤਨੀ ਆਦਿ ਸਭ ਰਿਸ਼ਤੇ ਕੇਂਦਰਿਤ ਜੀਵਨ ਸਾਹਮਣੇ ਫਿੱਕੇ ਪੈ ਚੁੱਕੇ ਹਨ। ਕਵੀ ਅਸੰਤੁਲਿਤ ਜੀਵਨ ਨੂੰ ਪੇਸ਼ ਕਰਦਿਆਂ ਸੱਚ ਨੂੰ ਪੇਸ਼ ਕਰਨ ਤੋ ਗੁਰੇਜ਼ ਕਰਦਾ ਹੈ। ਵੱਡੇ-ਵਡੇਰਿਆਂ ਦੁਆਰਾ ਰਸਮਾਂ-ਰੀਤਾਂ ਤੇ ਅੰਧ-ਵਿਸ਼ਵਾਸਾਂ ਵਿੱਚ ਬਨੇ ਸਮਾਜ ਦੇ ਵਰਤਾਰੇ ਪ੍ਰਤੀ ਉਦਾਸੀਨਤਾ ਦੇ ਭਾਵ ਨੂੰ ਪ੍ਰਗਟ ਕਰਦਾ ਹੈ ਤੇ ਅਗਲੀਆਂ ਪੀੜ੍ਹੀਆਂ ਨੂੰ ਇਸ ਤੋ ਮੁਕਤ ਕਰਨ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰਦਾ ਹੈ। CO5 ਨਵਤੇਜ ਭਾਰਤੀ- ਕਵੀ ਮਨੁੱਖ ਨੂੰ ਹਮੇਸ਼ਾ ਤੁਰਦੇ ਰਹਿਣ, ਵੇਖਦੇ ਰਹਿਣ ਤੇ ਪਿਆਰ ਕਰਨ ਦੀ ਰੌਂ ਨੂੰ ਚਲਦੇ ਰੱਖਣ ਦੀ ਇੱਛਾ ਬਣਾਈ ਰੱਖਣ ਲਈ ਤਿਆਰ ਕਰਦਾ ਹੈ। ਕਵੀ ਮਨੁੱਖ ਦੀ ਅਸੰਤੁਸ਼ਟ ਮਾਨਸਿਕ ਅਵਸਥਾ ਨੂੰ ਪੇਸ਼ ਕਰਦਾ ਹੈ। ਉਹ ਹਮੇਸ਼ਾ ਪੰਛੀ ਬਣਨਾ ਲੋਚਦਾ ਹੈ। ਉਹ ਪਰਮਾਤਮਾ ਤੋਂ ਮਨੁੱਖੀ ਪ੍ਰੇਮ-ਪਿਆਰ ਤੇ ਮੇਲ ਮਿਲਾਪ ਦੇ ਸ਼ਬਦਾਂ ਦੀ ਮੰਗ ਕਰਦਾ ਹੈ। CO6 ਸੁਖਵਿੰਦਰ ਅੰਮ੍ਰਿਤ- ਕਵਿਤਰੀ ਕਹਿੰਦੀ ਹੈ ਕਿ ਜਦੋਂ ਉਸਦੀ ਦੁਨਿਆਵੀ

		ਬਹਿਸ ਨਾਂ ਮੁੱਕੀ ਤਾਂ ਉਸਨੇ ਗੱਲ ਹੀ ਮੁਕਾ ਦਿੱਤੀ। ਉਹ ਮੂੰਹ ਮੋੜਨ ਤੇ ਇਕਰਾਰ ਤੋੜਨ ਨਾਲੋਂ ਤਾਂ ਮੌਤ ਨੂੰ ਤਰਜੀਹ ਦਿੰਦੀ ਹੈ। ਕੱਲ ਉਹ ਪੇਕੇ ਘਰ ਵਿੱਚ ਪਰਾਈ ਸੀ ਤੇ ਅੱਜ ਸਹੁਰੇ ਘਰ ਵੀ ਪਰਾਈ ਹੈ, ਬੇਗਾਨੀ ਧੀ ਹੈ। ਉਸਨੇ ਭਾਰਤੀ ਸਮਾਜ ਵਿੱਚ ਕੁੜੀਆਂ ਨਾਲ ਹੋ ਕੇ ਵਿਤਕਰੇ, ਅਨਿਆਂ ਤੇ ਧੱਕੇ ਦਾ ਜ਼ਿਤਕ ਕੀਤਾ ਹੈ। ਕਵਿਤਰੀ ਚਾਹੁੰਦੀ ਹੈ ਕਿ ਕੁੜੀਆਂ ਵਿਰੁੱਧ ਰਵੱਈਆ ਬੰਦ ਹੋਣਾ ਚਾਹੀਦਾ ਹੈ। CO7 ਦਰਸ਼ਨ ਬੁਲੰਦਵੀ- ਕਵੀ ਅਨੁਸਾਰ ਮਨੁੱਖ ਆਪਣੇ ਪਿਛੋਕੜ ਨਾਲੋਂ ਟੁੱਟਦਾ ਜਾ ਰਿਹਾ ਹੈ ਤੇ ਵਿਛੋੜੇ ਦੀ ਜ਼ਹਿਰ ਨੂੰ ਲਗਾਤਾਰ ਪੀਂਦਾ ਹੈ। ਜੀਵਨ ਜਿਊਣ ਅਤੇ ਲੋੜਾਂ ਪੂਰੀਆਂ ਕਰਨ ਲਈ ਸਦੀਵੀ ਸੰਘਰਸ਼ ਕਰਦਾ ਹੈ। ਇਨਾਂ ਸੰਦਾਂ ਨਾਲ ਸਖਤ ਮਿਹਨਤ ਕਰਦਾ ਹੋਇਆ ਮਨੁੱਖ ਪਿੱਠ ਉੱਤੇ ਆਪਣੇ ਜਿਊਣ ਦਾ ਭਾਰ ਚੁੱਕੀ ਫਿਰਦਾ ਹੈ। ਇਹਨਾਂ ਸਥਿਤੀਆਂ ਤੋਂ ਛੁਟਕਾਰਾ ਪਾਉਣਾ ਸੌਖਾ ਨਹੀਂ ਹੁੰਦਾ ਤੇ ਉਹ ਦਿਨੋ ਦਿਨ ਪਿੰਜਰੇ ਵਿੱਚ ਘੁੱਟਿਆ ਜਾਂਦਾ ਹੈ। ਕੰਮ ਵਾਲੇ ਹੱਥ ਵਗਦੇ ਪਾਣੀ ਉਪਰ ਲਿੱਖ ਕੇ ਇਤਿਹਾਸ ਰਚਾ ਦਿੰਦੇ ਹਨ। CO8 ਜਸਵਿੰਦਰ- ਕਵੀ ਅਨੁਸਾਰ ਉਸਨੇ ਸੌ ਮੁਖੌਟੇ ਪਹਿਨ ਕੇ ਪਾਰਦਰਸ਼ੀ ਰਹਿਣ ਦੇ ਜਿਨੇ ਦੁੱਖ ਜਰੇ ਹਨ, ਉਹ ਹੀ ਜਾਣਦਾ ਹੈ। ਜਿੰਦਗੀ ਖੁਸ਼ੀਆਂ ਤੇ ਗਮੀਆਂ ਦਾ ਸੁਮੇਲ ਹੈ। ਅਸਲ ਵਿੱਚ ਉਹ ਪੱਤੇ ਸਮਾਨ ਹੈ, ਉਹ ਅੰਡਾਂ ਤੋਂ ਵੀਡਰਦਾ ਹੈ ਤੇ ਮੀਹਾਂ ਤੋਂ ਵੀ। ਸਮਾਜ ਇਕ ਮਾਰੂਥਲ ਹੈ ਦੂਜੇ ਪਾਸੇ ਪ੍ਰੇਮਿਕਾ ਰੂਪ ਇਕੱਲੀ ਨਦੀ ਹੈ। ਮਨੁੱਖ ਜਿਧਰ ਵੀ ਤੁਰਦੇ ਹਨ ਬਹਿਸਾਂ ਕਰਦੇ ਹਨ ਪਰ ਕਿਸੇ ਦਿਲ ਵਿੱਚ ਮੋਹ ਦੇ ਬੀਜ ਨਹੀਂ ਬੀਜਦੇ ਸਗੋਂ ਗੁਆ ਕੇ ਹੀ ਆਉਂਦੇ ਹਨ । ਕੋਈ ਕ੍ਰਾਂਤੀਕਾਰੀ ਹੀਲਾ ਹੀ ਇਸ ਸਥਿਤੀ ਤੋਂ ਛੁੱਟਕਾਰਾ ਪੁਆ ਸਕਦਾ ਹੈ। CO9 ਸੁਖਪਾਲ- ਕਵੀ ਅਨੁਸਾਰ ਦੀਵੇ ਦੇ ਬਲਣ ਨਾਲ ਅੰਦਰ ਚਾਨਣਾ ਹੁੰਦਾ ਹੈ ਪ੍ਰੰਤੂ ਉਹ ਬਾਹਰ ਨੂੰ ਤੁਰ ਪੈਂਦਾ ਹੈ। ਬੁੱਲਾਂ ਵਿੱਚੋਂ ਦੀਵੇ ਦੀ ਸਲਾਮਤੀ ਲਈ ਅਰਦਾਸ ਨਿਕਲਦੀ ਹੈ। ਅਸੀਂ ਲੋਕਾਂ ਨੇ ਜਾਣ-ਬੁੱਝ ਕੇ ਆਪਣੇ ਆਪ ਨੂੰ ਛੋਟਾ ਕਰ ਲਿਆ ਕਿ ਪੱਛਮੀ ਲੋਕ ਸਾਡੇ ਤੋਂ ਵੱਡੇ ਹਨ। ਇਕ ਮਾਂ ਹੀ ਹੈ ਜੋ ਕਿ ਸਾਡੀ ਹਰ ਲੋੜ ਨੂੰ ਬਿਨਾਂ ਦੱਸਿਆਂ ਸਮਝਦੀ ਹੈ। ਕਵੀ ਦੇ ਚਿੱਤੇ ਲੋਕਾਂ ਨੂੰ ਵੀ ਗਿਆਨ ਦੇਣ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰਦਾ ਹੈ। ਕਵੀ ਪੰਜ ਤੱਤਾਂ ਤੋਂ ਇਲਾਵਾ ਛੇਵੇ ਤੱਤ ਦੀ ਭਾਲ ਵਿੱਚ ਹੈ। CO1: ਇਸ ਨਾਵਲ ਦਾ ਵਸ਼ਿਾ ਜਥੇ ਡਾ. ਸਲੀਮ ਵਰਗੇ ਨੌਜਵਾਨਾਂ ਦੇ ਮਨਾਂ ਵੱਿਚ ਆਪਣੇ ਦੇਸ਼ ਖਾਸ ਕਰਕੇ ਪੇਂਡੂ ਲੋਕਾਂ ਤੇ ਇਥੋਂ ਦੀਆਂ ਕੁੜੀਆਂ ਲਈ ਨਫਰਤ ਅਤੇ ਪੱਛਮੀ ਦੇਸ਼ਾਂ ਦੀ ਅਮੀਰੀ ਤੇ ਨੀਲੀਆਂ ਅੱਖਾਂ ਵਾਲੀਆਂ ਗੋਰੀਆਂ ਕੁੜੀਆਂ ਲਈ ਖੱਿਚ ਦੇ ਖੋਖਲੇਪਨ ਨੂੰ ਪੇਸ਼ ਕੀਤਾ ਹੈ। CO2 ਇਸ ਨਾਵਲ ਵੱਿਚ ਪਾਕਸਿਤਾਨੀ ਸਮਾਜ ਦੇ ਪ੍ਰਬੰਧ, ਨੌਜਵਾਨਾਂ ਦੀਆਂ ਭਾਵਨਾਵਾਂ, ਜਾਗੀਰਦਾਰੀ ਪ੍ਰਬੰਧ ਔਰਤਾਂ ਦੀ ਬੇਕਦਰੀ ਭਰੀ ਸਥਤਿੀ, ਆਮ ਲੋਕਾਂ ਦੇ ਸ਼ੋਸ਼ਣ ਅਤੇ ਪਾਕਸਿਤਾਨ ਦੇ ਆਮ ਪੇਂਡੂ ਜੀਵਨ ਦੇ ਯਥਾਰਥਕ, ਮਨੋਵਗਿਆਨਕ ਤੇ ਸਜੀਵ ਝਲਕ ਨੂੰ ਪੇਸ਼ ਕਰਦਾ ਹੈ। CO3 ਇਸ ਨਾਵਲ ਦੀ ਲੇਖਕਿਾ ਦੇ ਇਸ ਨਾਵਲ ਦੇ ਉਦੇਸ਼ ਬਾਰੇ ਸਪਸ਼ਟ ਹੁੰਦਾ ਹੈ ਕ ਿਨੋਜਵਾਨਾਂ ਦੇ ਮਨਾਂ ਵੱਿਚ ਪੇਂਡੂ ਲੋਕਾਂ ਦੇ ਜੀਵਨ ਤੇ ਸੂਝ-ਬੂਝ ਬਾਰੇ ਤ੍ਰਸਿਕਾਰ ਦੀ ਭਾਵਨਾ ਭਰੀ ਹੋਈ ਹੈ।ਸਦੀਕਾ ਤੇ ਜ਼ਰੀਨਾ ਵਰਗੀ ਵਫਾਦਾਰੀ ਤੇ ਕੁਰਬਾਨੀ ਦੀ ਭਾਵਨਾ ਬਲਿਕੁਲ ਨਹੀ ਹੁੰਦੀ।ਇਸ ਕਰਕੇ ਨੌਜਵਾਨਾਂ ਨੂੰ ਪੱਛਮੀ ਦੇਸ਼ਾਂ ਦੀ ਚਕਾਚੌਂਧ ਤੇ ਕੁੜੀਆਂ ਪੱਿਛੇ ਨਹੀ ਭੱਜਣਾ ਚਾਹੀਦਾ।

	ਨਾਵਲ 'ਬਲਦੇ ਦੀਵੇ' ਲੇਖਕਿਾ-ਰਜੀਆ ਨੂਰ ਮੁਹੰਮਦ	CO4 ਇਸ ਨਾਵਲ ਦਾ ਕਥਾਨਕ ਪਾਕਸਿਤਾਨ ਦੇ ਸਮਾਜਕਿ ਜੀਵਨ ਵੱਚਿੋਂ ਲਆਿ ਗਆਿ ਹੈ। ਇਸ ਵੱਚਿ ਵਾਪਰਨ ਵਾਲੀਆਂ ਘਟਨਾਵਾਂ ਬੜੀਆਂ ਯਥਾਰਥਕ ਤੇ ਕੁਦਰਤੀ ਹਨ। ਇਹ ਸਾਰੀਆਂ ਘਟਨਾਵਾਂ ਚਾਰ ਕੁ ਮਹੀਨਆਿਂ ਵੱਚਿ ਵਾਪਰਦੀਆਂ ਹਨ। CO5 ਇਸ ਨਾਵਲ ਦੇ ਪਾਤਰ ਪਾਕਸਿਤਾਨ ਦੇ ਆਮ ਪੇਂਡੂ ਸਮਾਜਕਿ ਜੀਵਨ ਵੱਚਿ ਲਏ ਗਏ ਹਨ, ਇਹ ਸਾਰੇ ਪਾਤਰ ਕੁਦਰਤੀ ਤੇ ਜਉਿਂਦੇ ਜਾਗਦੇ ਹਨ। ਚਰਤਿਰ ਚਤਿਰਨ ਲਈ ਲੇਖਕਿਾ ਨੇ ਕਾਫੀ ਮਨੋਵਗਿਆਿਨਕ ਸੂਝ ਬੂਝ ਤੋਂ ਕੰਮ ਲਆਿ ਹੈ ਤੇ ਇਨਾਂ ਦੀ ਆਪਸੀ ਵਾਰਤਾਲਪ ਬੜੀ ਪ੍ਰਭਾਵਸ਼ਾਲੀ ਹੈ। ਇਹ ਨਾਵਲ ਪੜ੍ਹਨ ਨਾਲ ਵਦਿਆਿਰਥੀਆਂ ਨੂੰ ਪੂਰਬੀ ਤੇ ਪੱਛਮੀ ਪੰਜਾਬ ਦੀ ਕਾਫੀ ਸੋਝੀ ਹੁੰਦੀ ਹੈ। CO6 ਇਸ ਨਾਵਲ ਦੀ ਕਹਾਣੀ ਨੱਕੇ ਨੱਕੇ, ਭਾਵਪੂਰਕ, ਸੁਆਦਲੇ ਤੇ ਰਸ ਭਰੇ ਵਾਰਤਾਲਾਪਾਂ ਨਾਲ ਭਰਪੂਰ ਹੈ। ਵਦਿਆਿਰਥੀ ਇਸ ਵਾਰਤਾਲਾਪ ਰਾਹੀ ਯਥਾਰਥ, ਮਨੋਵਗਿਆਿਨ ਤੇ ਰੁਮਾਂਸ ਭਰੇ ਵਾਕਾਂ ਨੂੰ ਖੂਬ ਮਾਣਦੇ ਹਨ। CO7 ਇਸ ਨਾਵਲ ਦੀ ਭਾਸ਼ਾ ਸ਼ੈਲੀ ਬੜੀ ਸਰਲ,ਸਾਦੀ ਤੇ ਮਨੋਵਗਿਆਿਨਕ ਹੈ। ਸ਼ੈਲੀ ਮੁੱਖ ਤੌਰ ਤੇ ਬਆਿਨੀਆ ਵੀ ਹੈ, ਪਰ ਉਸ ਵੱਚਿ ਵਰਨਣੀ ਤੇ ਨਾਟਕੀ ਅੰਸ਼ ਵੀ ਹੈ। CO8 ਇਸ ਨਾਵਲ ਦਾ ਸਰਿਲੇਖ 'ਬਲਦੇ ਦੀਵੇ' ਢੁੱਕਵਾਂ ਤੇ ਫੱਬਵਾਂ ਹੈ। ਇਸ ਦਾ ਸਰਿਲੇਖ ਇਸਦੇ ਉਦੇਸ਼ ਉੱਤੇ ਅਧਾਰਤਿ ਹੈ। ਸਾਹਤਿਕਿ ਦ੍ਰਸ਼ਿਟੀਕੋਣ ਤੋਂ ਨਾਵਲ ਲੇਖਕਿਾ ਦੀ ਇਹ ਰਚਨਾ ਪਾਕਸਿਤਾਨੀ ਨਾਵਲ ਸਾਹਤਿ ਵੱਚਿ ਇਕ ਵਲਿੱਖਣ ਪ੍ਰਾਪਤੀ ਹੈ। CO1: ਪੰਜਾਬੀ ਸਾਹਤਿ ਦੇ ਇਤਹਿਾਸ ਦੀ ਮੁਢਲੀ ਜਾਣਕਾਰੀ, ਆਧੁਨਕਿ ਕਾਲ 1901 ਈ:ਤੋਂ ਹੁਣ ਤੱਕ ਦੇ ਇਤਹਿਾਸ ਦੀ ਜਾਣਕਾਰੀ ਵਦਿਆਿਰਥੀ ਨਾਲ ਸਾਂਝੀ ਕੀਤੀ CO2 ਪੰਜਾਬੀ ਗਲਪ ਦੇ ਜਨਮ ਤੇ ਵਕਿਾਸ, ਕਾਵਲ ਤੇ ਕਹਾਣੀ ਆਧੁਨਕਿ ਸਾਹਤਿਕ ਚੇਤਕਤਾ ਪੱਛਮੀ ਸਾਹਤਿ ਦੇ ਪ੍ਰਭਾਵਾਂ ਦੀ ਉਪਜ ਹੈ। ਭਾਈ ਵੀਰ ਸੰਘਿ ਪੰਜਾਬੀ ਨਾਵਲ ਦੇ ਜਨਮ ਦਾਤਾਂ ਹਨ, ਬਾਰੇ ਵਦਿਆਿਰਆਂ ਨੂੰ ਨਾਵਲ ਤੇ ਕਹਾਣੀ ਪੜ੍ਹਨ ਦੀ ਲਗਨ ਪੈਦਾਂ ਕੀਤੀ। Translation in English CO1: Pash presents his rebellious thoughts through the medium of signs and symbols. His life experience creates new understanding in the community. He presents imperialism in its real form and he does not want to wrap the life and happiness which is crushed under coercion,

	ਪੰਜਾਬੀ ਸਾਹਤਿ ਦਾ ਇਤਹਿਾਸ (1901-2000) Nakash Nuhar Poetry Book	oppression, injustice, false promises and dreams. CO2: In addition to the patriotism, Sant Ram Udasi has expressed the desire to end the exploitation of capitalism and feudalism. The poet exhorts the farmers to unite and fight for their rights and expressing a revolutionary sentiment he describes the plight of the poor hard-working people. He inspires them to protect the sweet fruits of his labour. CO3: Sarjit Patar- Poet advises a person that instead of living a life of loyalty and promises, he has to live a life full of devotion. Describing the feelings of the mother, he tells that the mother keeps the papers of her son close to her chest. CO4: Jaswant Deed- Poet tries to tell that all relationships that include parents, girlfriend and wife etc. have faded for a present man in front self-centred life. The poet refrains from presenting the truth while portraying an unbalanced life. He expresses his unhappiness for the society that is tied to rituals and superstitions by ancestors and tries to liberate the next generations from it. CO5: Navtej Bharti - The poet prepares a man that he Should keep walking, watching and loving others. The poet presents the unsatisfied mental state of man. He always wanted to be a bird. He asks God for words of human love and reconciliation. CO6: Sukhwinder Amrit- The poetess says that when Her worldly debate had not stopped, she stopped talking. She prefers death than turning away and breaking the promise. She says that she remains a foreigner because when she was in her paternal house she was considered stranger and today she lives in her in-law's house but the

		situation has not changed. She discusses the injustice and discrimination meted out to women in the Indian society. Poetess wants that this sort of attitude against girls should come to end. CO7: Darshan Bulandavi- According to the poet, man is getting separated from his background and continuously drinks the poison of separation. He wages eternal struggle to live life and fulfill his needs. Man roams around carrying the weight of his life on his back. It is not easy to get rid of these situations and he feels choked and suffocated in a cage every day. Hard-working people create history by writing on water. CO8: Jaswinder- According to poet, only he knows the pains he has endured by wearing a hundred masks to remain transparent. Life is a combination/mixture of happiness and sorrows. In fact, he is like a leaf, he is afraid of droughts and heavy rainfall. Society is a desert and on the other side there is a lonely river in the form of a girlfriend. People argue wherever they go, but they do not sow the seeds of attachment in any heart, rather they return after losing everything. Only a revolutionary effort can get rid of this situation. CO9: Sukhpal- According to the poet, when the lamp is lit, there is light inside, but it goes outside. Lips pray for the safety of the lamp. We have deliberately depreciated ourselves by thinking that Westerners are superior to us. Mother is the only one who understands our every need without expressing it. The poet also tries to give knowledge to the double-minded people. Apart from the five elements, the poet is in search of the sixth element. English

		CO1: comprehend theoretical devices used in English literature. CO2: read, analyze and write about a text independently. CO3: show skills to write clearly, coherently, and cohesively. CO4: detect errors and correct them. CO5: do paragraph writing for effective English Writing. CO6: use grammar and English communication skills accurately in various contexts. Hindi
	कवितालोक (काव्य–पुस्तक) *r* मीरा बाई	*r* विद्यार्थी मीराबाई के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। *r* विद्यार्थी मीराबाई के पदों यह सीखेंगे कि अपने आराध्य की भक्ति के लिए प्रेम और विशुद्ध मन की आवश्यकता होती है। वे यह समझेंगे कि ईश्वर भक्त के मन की भावना को देखकर उस पर अपना प्रेम बरसाता है। ईश्वर को प्राप्त करने के लिए समर्पण परमावश्यक है। *r* विद्यार्थी तुलसीदास के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। *r* विद्यार्थी तुलसीदास की रचनाओं के माध्यम से उनकी राम भक्ति से परिचय प्राप्त करेंगे। विद्यार्थी तुलसीदास की रचनाओं के माध्यम से विविध मानवीय मूल्यों और नीति–आदर्शों का ज्ञान प्राप्त करेंगे। तुलसी के राम के सुखी और सहज जीवन जीने की कला से विद्यार्थी परिचित होकर लाभ प्राप्त करेंगे। *r* विद्यार्थी गिरिधर राय के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। *r* विद्यार्थी गिरिधर राय की विभिन्न कुण्डलियों के माध्यम से नीति और लोक व्यवहार सीखने का प्रयास करेंगे। लोक–व्यवहार और नीतिपरक लोक–परम्पराओं का ज्ञान प्राप्त करके विद्यार्थी सहज

	r तुलसीदास r गिरिधर कविराय	जीवन जीने की कला सीख पाएंगे। r विद्यार्थी उपन्यास के माध्यम से समाज और जीवन की विविध समस्याओं से अवगत होंगे और उन समस्याओं के समाधान के लिए प्रेरित होंगे। उनमें समस्या-समाधान की क्षमता विकसित होगी।
	झांसी की रानी **(उपन्यास)**	r झांसी की रानी उपन्यास श्री वृन्दावन लाल वर्मा का एक ऐतिहासिक उपन्यास है। विद्यार्थी क्त्भ्स्त्र के स्वतंत्रता संग्राम की प्रसिद्ध वीरांगणा लक्ष्मीबाई की चारित्रिक विशेषताओं का ज्ञान प्राप्त करने के साथ-साथ उन परिस्थितियों का ज्ञान भी प्राप्त करेंगे जिनके कारण यह संग्राम विफल होकर पूरी तरह अंग्रेजों के अधीन हो गया था। r विद्यार्थी इसके माध्यम से फल/परिणाम की चिन्ता किये बिना कर्म का महत्व जान पाएंगे। विद्यार्थी यह जान पाएंगे कि योजनाबद्ध कार्य के द्वारा ही लक्ष्य को प्राप्त किया जा सकता है। r विद्यार्थी यह जान पाएंगे कि कैसे सीमित साधनों के होते हुए भी उन साधनों का समयानुकूल उपयोग आपके श्रम को सफल बना सकता है। वे समझ पाएंगे कि एकता की ताकत किसी भी कार्य को सरल-सुगम बना सकती है। r विद्यार्थी हिन्दी साहित्य के इतिहास का परिचय प्राप्त करेंगे। r विद्यार्थी हिन्दी साहित्य के सृजन की पृष्ठभूमि और साहित्यिक प्रवृतियों को समझने में सक्षम होंगे। r विद्यार्थी साहित्य के माध्यम से जीवन-मूल्यों और जीवन-दर्शन को समझने का प्रयास करेंगे। r भक्तिकाल की राजनैतिक, सामाजिक, धार्मिक, आर्थिक परिस्थितियों, साहित्यिक प्रवृतियों, कबीर, नानक, जायसी, सूरदास, तुलसीदास, मीरा आदि संत-भक्त कवियों की रचनाओं से परिचित होकर विद्यार्थी भक्तिकाल के साहित्य के विषय में समुचित ज्ञान

		प्राप्त करेंगे और इस काल-खण्ड के साहित्य की निर्माण प्रक्रिया को समझने में सक्षम होंगे।
		r हिन्दी उपन्यास विधा की शास्त्रीय पद्धति से विद्यार्थियों का परिचय कराया जाएगा। समीक्षा सिद्धांत के महत्व को प्रतिपादित किया जाएगा।
	हिन्दी साहित्य का इतिहास r भVतकाल	r हिन्दी उपन्यास की परिभाषा, उपन्यास के विविध तत्व और उपन्यास के बहु-आयामी वर्गीकरण से विद्यार्थियों को परिचित कराया जाएगा।
		r शुद्ध भाषा लिखने एक कला है। अत: यह आवश्यक है कि प्रत्येक वाक्य को शुद्ध रूप में पढ़ा/लिखा जाए। उसके लिए व्याकरण का ज्ञान और अत्यास परमावश्यक है।
		r विद्यार्थी मुहावरे/लोकोक्तियों के ज्ञान और अत्यास से यह जान पाएंगे कि कैसे कोई वाVयाँश सामान्य अर्थ के स्थान पर विशेष अर्थ का बोध करता है। इनके उचित प्रयोग से भाषा को प्रभावशाली बनाया जा सकता है।
		r अनुच्छेद और निजी पत्र-लेखन से विद्यार्थी अपने लेखन-कौशल को निखार सकेंगे और भविष्य में इस कौशल को वे अपने व्यावसायिक जीवन में इस्तेमाल कर पाएंगे।
	समीक्षा सिद्धांत r हिन्दी उपन्यास	r पारिभाषिक शब्दावली का ज्ञान प्राप्त कर विद्यार्थी यह जान पाएंगे कि विविध कार्यालयों में हिन्दी की पारिभाषिक शब्दावली का सटीक प्रयोग कैसे किया जाता है और इसकी आवश्यक्ता एवं उपयोगिता क्या है।
	व्यावहारिक व्याकरण	

	r मुहावरे/लोकोिvतयां r अनुच्छेद लेखन r निजी पत्र–लेखन r पारिभाषिक शब्दावली	
0125	History (History of India 1200-1750 A.D)	After completion of this course, the students will be able to: CO1: explain about the establishment of Turkish rule Under Muizzuddin of Ghor, Consolidation under Iltutmish and Balban. CO2: describe about the Khalji Dynasty, their administration, Agrarian and market reforms of Alauddin Khilji. CO3: explain about the Tughlaqs i.e. Muhammad Bin Tughlaq's administrative experiments and its impact, Feroz Shah Tughlaq's administrative and economic reforms. CO4: state the Vijaynagar Kingdom, it's establishment, Administration and Economics. CO5: state the Formation of the Mughal Empire, it's Political condition of India on the eve of Babur's Invasion conquests and Courses of his Success. CO6: describe about the Afghans, establishment of

		Afghan power under Sher Shah Suri, administrative reforms. CO7: explain about the Central, Provincial Administration and land revenue system of the Mughal period Mansabdari system and Jagirdari System. CO8: explain about the Decline of the Mughal Empire. CO9: explain about the Rise of the Marathas, conquests of Shivaji and his administration. CO10: describe about Evolution and main features of Bhakti movement and Sufism. CO11: state the Important historical places of medieval India, Extent of Empire under Alauddin Khalji and Mughal Empire in 1707.
MAT-0145	Mathematics (Solid Geometry)	After completing the course, students will be able to: CO1: describe the concept of transformation of axes in three dimensions. CO2: analyze Sphere and its properties, power of point with respect to Sphere, coaxial family of spheres, limiting points. CO3: differentiate Cylinder, Ellipse, Parabola, Hyperbolic Cylinder and Enveloping cylinder and their various properties. CO4: describe Cone, homogeneous equation of Second degree in three variables, Right Circular and Enveloping cones. CO5: solve problems regarding Paraboloids, plane sections of conicoids, generating lines and reduction of second degree equations.
MAT-0146	(Calculus-II)	After completing the course, students will be able to: CO1: demonstrate concepts of Concavity, Convexity, Points of Inflexion and Asymptotes.

MAT-0147	(Theory of Equations)	CO2: analyze Curvature and Radius of Curvature in Polar and Cartesian coordinates. CO3: solve problems regarding the concept of Evolute, Involute and Chord of Curvature. CO4: analyze and find Integral of Hyperbolic and Inverse Hyperbolic Functions. CO5: find out the integration of functions using Trapezoidal, Simpson and Prismoidal rules. CO6: differentiate the concepts of Summation of Series, Quadrature, Rectification, Volumes and Surfaces of Solids of Revolution. After completing the course, students will be able to: CO1: apply Euclid Algorithm, synthetic division. CO2: describe the relationship between Roots and Coefficients of Equations using Virge Vieta method. CO3: describe the concept of Transformation of Matrices, calculate number of Real and Complex roots using Descarte's rule of signs. CO4: find the Solutions of Cubic equations by using Cardon Method and Biquadratic equations by using Descarte and Ferrari method.
0115	Agriculture (Agricultural Economics and Agronomy)	After the course, the students will be able to: CO1: explain about agricultural banking, agricultural loans – Its various types, repayment mode, form filling for agricultural loans. CO2: explain about National policy for agricultural loans. CO3: state about the agriculture credit cards. CO4: state the fundamentals of land measurements and land revenue. CO5: explain about various legal aspects of import and export of raw crop and crop products.

		CO6: explain about quarantine laws. CO7: describe the fundamentals of agricultural Economics, Psychological pressure on farmer and villagers of different classes. CO8: get skilled in the methods of storage of vegetables, fruits, grains at local and large level. Vegetable and fruit preservation. CO9: read about soil types, management, improvement and amendments. CO10: explain about the soil testing. Fundamental of fertilizers and manures, Important fertilizers and their uses and Nitrogen fixation.
0195	Retail Marketing	The students who successfully complete this course will be able to: CO1: identify the core concepts of marketing and understand the needs of the customer. CO2: apply the company orientation towards the market and also evaluate the market. CO3: analyze and categorize segmentation, targeting and positioning of the product and the consumer. CO4: explain what marketing means to business executives and academics. CO5: analyze the consumer behavior and can recognize the different steps in buying decision process. CO6: apply the essentials for successful implementation of service management.
CS03	Computer Science (Operating System Concepts)	The students after completing this course, will be able to: CO1: explain how Operating System is important for Computer System. CO2: describe the different types of Operating System and their services. CO3: explain the process management, concurrent

CS04	(C Programming)	processes and threads. CO4: handle deadlock and work on it. CO5: describe about Memory Management: Logical and Physical memory, Segmentation, various paging algorithms. The students after completing this course, will be able to: CO1: explain the basic terminology used in computer Programming. CO2: write, compile and debug programs in C language CO3: use different data types in a computer program CO4: design programs involving decision structures, loops, arrays and strings. CO5: describe about the various types of Functions and String handling mechanisms. CO6: explain the difference between call by value and call by reference.
PCS02	(Practical Based on Paper CS04)	The students after completing this course, will be able to: CO1: read, understand and trace the execution of programs written in C language. CO2: implement programs using operators, data types, Decision, Loop, Case Control Statements. CO3: design programs involving arrays, strings, pointers, functions and implement the dynamics of memory by the use of pointers
0138	Physical Education	After the course, students will be able to: CO1: describe about Anatomy and Physiology of human body. CO2: explain about different body parts, its mechanism and its developing exercises. CO3: follow the proper Rules, Judgment and Skills of Track and Field events. CO4: maintain proper Health and active life style and know about Health problems in India.

		CO5: use the different therapy processes. CO6: apply first aid. CO7: describe about components of physical education. CO8: describe about Olympic, Asians and Common Wealth games.
0179	Fashion Designing (Fabric Study and Design Concept) (Basic Construction Techniques and Sketching Practical for Sem 1 and 2 annual)	After the course the students will be able to: CO1: describe about Fibers and their properties. CO2: explain about yarn size and properties. CO3: explain about the concept of Principles and Elements of art CO4: get skilled in different dyes and printing techniques. CO1: get skilled in various seams and seams finishes. CO2: do fancy and traditional embroidery stitches. CO 3: figure sketching. CO 4: draft and construct garments.
0118	Economics (Macro Economics)	After completing this course, students will be able to: CO1: explain the macro approach to the economy. CO2: recall the theory of trade cycles and different phases of trade cycles. CO3: analyze the theory of employment, multiplier and acceleration. CO4: describe the theory of trade cycle, and explain various phases of trade cycle. CO5: State the Concept of inflation, deflation and stagflation. CO6: explain the working of money market, banking and financial system. CO7: describe economic planning, RBI and functions of RBI, various tools of monetary policy and fiscal

		policy. CO8: differentiate the role of commercial banks and central bank in Indian economy. CO9: distinguish monetary and fiscal policies and various tools used in these policies.
MUV0132	Music (Vocal)	On Completion of this course students would be able to: CO1: develop the ability to sing basic Alankaars, they will be introduced to Drut khayal and Vilambit khayal which is the most important and popular form of Hindustani Vocal Music. CO2: perform as an artist in Hindustani Music after having understood the basic concepts like Laya, Taal, Aalap, etc. CO3: observe great contribution of Pt. Vishnu Digambar Paluskar and they will be able to read and write compositions by studying notation system created by the legends. CO4: identify Musical terms like Study of Naad, knowledge of Bhatkhande Thaat system, Maatra, Avartan, Sam, Tali, Khali, Vibhag, Aroh and Avaroh.
0135	Political Science (Political Theory II)	After the course, the students can: CO1: describe the concept of state, nation and civil society. CO2: explain the elements and factors of state and nation. CO3: explain the meaning sovereignty, types and characteristics. CO4: analyze critically the theories of monism and pluralism. CO5: explain about the origin of the concepts such as Law, power, authority, and legitimacy. CO6: state the forms of government in various

		countries and their working pattern. CO7: compare with procedure of various social institutions and government institutions. CO8: analyze the meaning of organs of government and theory of separation of power.
SEMESTER-III		
COMPULSORY SUBJECTS		
0201	English	After completion of this course, student will be able to: CO1: differentiate between the genres like poetry, story and essay. CO2: comprehend the poems critically. CO3: read the texts analytically like their themes, characters and situations. CO4: improve and develop his/her reading and writing skills through Note-making. CO5: write correct sentences through Punctuation and use of Non-finite verb. CO6: transform one type of sentence into other type of sentences through transformation of sentences.
0203/0204	Punjabi/History and Culture of Punjab	After Punjabi course, students can: CO1: 'ਪੰਜ-ਆਬ' ਪਾਠ-ਪੁਸਤਕ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬ ਦੇ ਵਿਰਸੇ ਦੀਆਂ ਡੂੰਘਾਈਆਂ ਨੂੰ ਬਹੁਤ ਨੇੜੇ ਤੋਂ ਪਛਾਨਣ ਅਤੇ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । ਵਿਦਿਆਰਥੀ ਲੋਕ-ਵਿਰਸੇ ਅਤੇ ਸਭਿਆਚਾਰ ਦੁਆਰਾ ਆਪਣੀਆਂ ਜੜ੍ਹਾਂ ਨਾਲ ਜੁੜਦੇ ਹਨ ਅਤੇ ਦੂਸਰਿਆਂ ਨੂੰ ਵੀ ਜੋੜਨ ਦੇ ਸਮੱਰਥ ਬਣਦੇ ਹਨ । CO2: ਦਫਤਰੀ, ਵਪਾਰਕ, ਸਮਾਜਿਕ ਅਤੇ ਸਭਿਆਚਾਰਕ ਮਸਲਿਆਂ ਬਾਰੇ ਚਿੱਠੀ-ਪੱਤਰ ਲਿਖਣ ਸਮੇਂ ਜਿਥੇ ਵਿਦਿਆਰਥੀ ਉਪਰੋਕਤ ਮਸਲਿਆਂ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ, ਉਥੇ ਲੋੜ ਪੈਣ ਤੇ ਅਜਿਹੇ ਮਸਲਿਆਂ ਦਾ ਹੱਲ ਕਰਨ ਸਮੇਂ ਕਿਸ ਅਧਿਕਾਰੀ ਤੱਕ ਪਹੁੰਚ ਕਰਨੀ ਹੈ ਆਦਿ ਬਾਰੇ ਜਾਣਕਾਰੀ ਗ੍ਰਹਿਣ ਕਰਦੇ ਹਨ । CO3: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨਾਲ ਸੰਬੰਧਿਤ ਭਾਗ ਦਾ ਅਧਿਐਨ ਕਰਦੇ ਸਮੇਂ ਮਾਤ-ਭਾਸ਼ਾ ਪੰਜਾਬੀ ਦੇ ਨਿਕਾਸ, ਵਿਕਾਸ ਅਤੇ ਅਜੋਕੀ ਸਥਿਤੀ ਨੂੰ ਮਸਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਦੂਸਰੀਆਂ ਭਾਸ਼ਾਵਾਂ ਨਾਲ ਸੰਬੰਧ ਅਤੇ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਪੰਜਾਬੀ ਦੀ ਅਹਿਮੀਅਤ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਬਣਦੇ ਹਨ । ਇਸ ਤਰ੍ਹਾਂ ਵਿਦਿਆਰਥੀ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਪੰਜਾਬੀ ਦੀ ਅਜੋਕੀ ਸਥਿਤੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰਖਦੇ ਹੋਏ ਇਸ ਦੀ ਹੋਂਦ ਨੂੰ

		ਬਚਾਈ ਰੱਖਣ ਲਈ ਯਤਨਸ਼ੀਲ ਰਹਿੰਦੇ ਹਨ । CO4: ਵਿਆਕਰਣ ਦੀ ਸਿੱਖਿਆ ਪ੍ਰਾਪਤ ਕਰਨ/ਪੜ੍ਹਨ ਸਮੇਂ ਵਿਦਿਆਰਥੀ ਜਿਥੇ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਬਾਰੇ ਡੂੰਘਾਈ ਵਿਚ ਗਿਆਨ ਹਾਸਿਲ ਕਰਦੇ ਹਨ ਉੱਥੇ ਪੰਜਾਬੀ ਦੇ ਇਕ-ਇਕ ਸ਼ਬਦ ਦੇ ਪਿੱਛੇ ਅੰਦਰੂਨੀ ਨਿਯਮਾਂ ਦੇ ਕਾਰਜਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ । ਭਾਸ਼ਾ ਦਾ ਇਕ-ਇਕ ਸ਼ਬਦ ਕਿਵੇਂ ਹੋਂਦ ਵਿਚ ਆਉਦਾ ਹੈ । ਫਿਰ ਸ਼ਬਦਾ ਤੋਂ ਵਾਕ, ਉਪਵਾਕ, ਪੈਰ੍ਹੇ ਅਤੇ ਫਿਰ ਸਮੁਚੀ ਰਚਨਾ ਕਿਵੇਂ ਤਿਆਰ ਹੁੰਦੀ ਹੈ । ਕਿਸੇ ਵੀ ਭਾਸ ਨੂੰ ਸਿੱਖਣ ਲਈ ਵਿਆਕਰਣ ਦੀ ਪੜ੍ਹਾਈ ਅਤੇ ਜ਼ਰੂਰੀ ਹੈ । Punjabi Course outcomes translated into English CO1: Through studying the Panj-Aab textbook, students can get to know and understand the depth of Punjabi culture and heritage of Punjab very closely. Students connect with their roots through heritage and culture and can connect with others. CO2: While writing letters about office, commercial, social, and cultural issues, where students can understand the above issues, they acquire information about which authority to approach when solving such issues if necessary. CO3: Students can understand the origin and development of mother tongue Punjabi while studying the section related to the Punjabi language. They can understand the relationship of the Punjabi language with other languages and the importance of their mother tongue Punjabi. In this way, the students keep trying to preserve the existence of their mother tongue Punjabi while keeping information about the current situation. CO4: While learning/reading grammar, students gain in-depth knowledge about their mother tongue, and they also gain information about the functions of internal rules behind each word of Punjabi. How each word of the language comes into being.

		Then how are sentences, sub-sentences, paragraphs, and then the entire composition prepared from words? Studying grammar is essential for learning any language. History and Culture of Punjab After completion of this course, the students will be able to: CO1: explain about the first civilization of India i.e. Indus Valley Civilization. CO2: explain about Vedic Age, growth of Jainism and Buddhism in 6th century B.C. in Punjab. CO3: explain about the society and culture under Mauryas and Guptas. CO4: explain about Cultural Orientation i.e. Bhakti Movement of India. CO5: describe about the youngest religion of the world i.e. Sikhism from Shri Guru Nanak Dev Ji to all ten Gurus. CO6: explain about Martyrdoms in Sikhism. CO7: explain about institutional development in Sikhism, New policy adopted by Shri Guru Hargobind Sahib Ji and Creation of Khalsa. CO8: explain about changes in society in the 18th Century i,e. Social unrest, emergence of misls and institutions: Rakhi, Gurmata, Dal Khalsa. CO9: explain about society and culture of the people Under Maharaja Ranjit Singh. CO10: explain about the Physical geographical map of Punjab.
ELECTIVE SUBJECTS		
0209/0208/ 0205	Punjabi/Hindi/English	CO1: ‘ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਕਾਵਿ ਰੰਗ’ ਦੇ ਅਧਿਐਨ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮੱਧਕਾਲ ਵਿੱਚ ਰਚੇ ਗਏ ਸਾਹਿਤ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ। ਉਨ੍ਹਾਂ ਵਿੱਚ

		ਸਾਹਿਤ ਦੀਆ ਮੱਧਕਾਲੀ ਧਾਰਾਵਾਂ ਦੀਆ ਬਾਰੀਕੀਆਂ ਨੂੰ ਵਾਚਦੇ ਹੋਏ ਉਸ ਸਮੇਂ ਦੇ ਸਮਾਜ ਦੀਆ ਪ੍ਰਸਥਿਤੀਆ ਉਜਾਗਰ ਹੁੰਦੀਆ ਹਨ। CO2: ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਕਾਵਿ ਰੰਗ ਦੇ ਅਧਿਐਨ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆ ਨੂੰ ਗੁਰੁ ਨਾਨਕ ਦੇਵ ਜੀ ਦੀ ਵਿਚਾਰਧਾਰਾ ਦੀ ਵਿਸਥਾਰਪੂਰਵਕ ਸੈਲੀ ਹੁੰਦੀ ਹੈ।ਉਸ ਸਮੇਂ ਦੇ ਸਮਾਜ ਵਿੱਚ ਫੈਲੀ ਰਾਜਨੀਤਕ ਹਨੇਰ ਗਰਦੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਲ ਹੁੰਦੀ ਹੈ। ਗੁਰੁ ਸਾਹਿਬਾਨ ਦੀ ਵਿਚਾਰਧਾਰਾ ਨਾਲ ਜੁੜਦੇ ਹੋਏ ਵਿਦਿਆਰਥੀ ਭਗਤ ਕਬੀਰ ਜੀ ਅਤੇ ਭਗਤ ਰਵੀਦਾਸ ਜੀ ਬਾਰੇ ਵੀ ਜਾਣਕਾਰੀ ਹਾਸਲ ਕਰਦੇ ਹਨ। ਗੁਰਮਤਿ ਦੀ ਇਸ ਅਮ,ੀਰ ਪ੍ਰੰਪਰਾ ਦਾ ਅਧਿਐਨ ਕਰਦੇ ਹੋਏ ਵਿਦਿਆਰਥੀ ਨੈਤਿਕਤਾ ਦੇ ਧਾਰਨੀ ਬਣਦੇ ਹਨ। CO3: 'ਦੁਨੀਆ ਇੱਕ ਮਹੱਲ ਹੈ' ਪੁਸਤਕ ਦੇ ਅਧਿਐਨ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆ ਨੂੰ ਗੁਰਬਖਸ਼ ਸਿੰਘ ਦੇ ਸਫਰੀ ਜੀਵਨ ਬਾਰੇ ਸੋਝੀ ਹੁੰਦੀ ਹੈ। ਉਹ ਗੁਰਬਖਸ਼ ਸਿੰਘ ਦੇ ਸਫਰਨਾ, ਮੈਂ ਰਾਹੀਂ ਦੁਨੀਆ ਦੇ ਵੱਖ-ਵੱਖ ਸ਼ਹਿਰਾਂ ਨਾਲ ਆਪਣਾ ਨਾਤਾ ਜੋੜਦੇ ਹਨ। ਬਸਰਾ-ਬਗਦਾਦ ਤੋਂ ਸ਼ੁਰੂ ਹੋ ਕੇ ਅਮਰੀਕਾ,ਲੰਡਨ ਤੱਕ ਦੇ ਵੱਖ-ਵੱਖ ਦੇਸ਼ਾ ਦੀ ਯਾਤਰਾ ਕਰਦੇ ਹਨ। ਬਿਨਾਂ ਦੇਸ਼ਾਂ ਦੀਆ ਸੱਭਿਆਚਾਰ ਰੀਤਾਂ ਦੀ ਵਿਸ਼ਾਲਤਾ ਨੂੰ ਮਾਣਦੇ ਹੋਏ, ਇਨ੍ਹਾ ਦੇਸ਼ਾਂ ਦੀ ਸੁੰਦਰਤਾ ਨੂੰ ਵੇਖ ਕੇ ਉਪਣੇ ਅੰਦਰ ਦੀ ਸੁੰਦਰਤਾ ਦੇ ਬੀਜ ਬੀਜਦੇ ਹਨ ਅਤੇ ਸੱਭਿਆਚਾਰ ਮਨੁੱਖ ਬਣਨ ਦੀ ਲੋਚਾ ਕਰਦੇ ਹਨ। ਸੁੰਦਰਤਾ ਮਨੁੱਖ ਦੇ ਪਹਿਰਾਵੇ ਵਿੱਚ ਨਹੀਂ , ਉਸ ਦੇ ਵਿਚਾਰਾਂ ਵਿੱਚ ਹੋਣੀ ਚਾਹੀਦੀ ਹੈ। ਉਸਦੇ ਵਿਵਹਾਰ ਵਿੱਚ ਹੋਣੀ ਚਾਹੀਦੀ ਹੈ। CO4: ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਗੁਰਮਤਿ ਕਾਵਿ ਅਤੇ ਭਗਤੀ ਕਾਵਿ ਵਾਲੇ ਸਾਹਿਤਕਾਰਾਂ ਸੰਬੰਧੀ ਅਤੇ ਉਨ੍ਹਾਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਹਾਸਲ ਹੁੰਦੀ ਹੈ। ਇਸ ਸਾਹਿਤ ਨੂੰ ਵਾਚਣ ਨਾਲ ਵਿਦਿਆਰਥੀਆਂ ਦੀਆਂ ਨੈਤਿਕ ਰੁਚੀਆਂ ਉਜਾਗਰ ਹੁੰਦੀਆਂ ਹਨ।ਉਸ ਸਮਾਜ ਦੀ ਉਸਾਰੀ ਲਈ ਆਪਣਾ ਯੋਗਦਾਨ ਪਾਉਂਦੇ ਹੋਏ ਉਸਾਰੂ ਕਾਰਜਾਂ ਵਿੱਚ ਆਪਣਾ ਰੋਲ ਨਿਭਾਉਂਦੇ ਹਨ। CO5: ਭਾਰਤੀ ਕਾਵਿ-ਸ਼ਾਸਤਰ ਦਾ ਅਧਿਐਨ ਨਾਲ ਵਿਦਿਆਰਥੀਆ ਨੂੰ ਛੰਦ ਵਿਧਾਨ ਦੀ ਸੈਲੀ ਹੁੰਦੀ ਹੈ। ਕਵਿਤਾ ਰਚਣ ਲਈ ਛੰਦਾ-ਬੰਦੀ ਦਾ ਗਿਆਨ ਹੋਣਾ ਬਹੁਤ

		ਜ਼ਰੂਰੀ ਹੈ। ਰਸ ਸੰਪਰਦਾਇ ਦਾ ਗਿਆਨ ਹੋਣਾ ਬਹੁਤ ਜ਼ਰੂਰੀ ਹੈ। ਰਸ ਸਮਪਰਦਾਇ ਵਿਕ੍ਰੋਕਤੀ ਸੰਪਰਦਾਇ ਦਾ ਗਿਆਨ ਵਿਦਿਆਰਥੀਆ ਨੂੰ ਇਸ ਅਧਿਐਨ ਰਾਹੀਂ ਹੀ ਹੁੰਦਾ ਹੈ। CO6: ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆ ਨੂੰ ਭਾਸ਼ਾ ਦੇ ਟਕਸਾਲੀ ਰੂਪ ਅਤੇ ਇਸ ਦੀਆਂ ਉੱਪ-ਭਾਸ ਾਵਾਂ ਦਾ ਗਿਆਨ ਹੁੰਦਾ ਹੈ। ਭਾਸ਼ਾ ਵੰਨਗੀਆ ਦੀ ਵਰਤੋਂ ਬਾਰੇ ਵੀ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ। Punjabi course outcomes translated into English CO1: Through the study of medieval Punjabi poetry, the students get a detailed understanding of the ideology of Guru Nanak Dev Ji. They get information about the political darkness that spread in the society of that time. While connecting with the ideology of the Gurus, the students also learn about Bhagat Kabir Ji and Bhagat Ravidas Ji. By studying this rich tradition of Gurmat, the students become moral bearers. CO2: Through the study of the book 'Duniya Ek Mahal Hai' they can relate to different cities of the world through Gurbakhsh Singh's Safarnama . Starting from Basra-Baghdad, they travel to different countries from America to London. Enjoying the vastness of cultural customs of other countries, and seeing the beauty of these countries, they sow the seeds of their inner beauty and aspire to become cultured people. Beauty should not be in a man's dress but in his thoughts. should be in his behavior. CO3: Through the history of Punjabi literature, students get information about Gurmat poetry and Bhakti poetry writers and their works. By

		reading this literature, the moral interests of the students are revealed. They play their role in constructive activities while contributing to the construction of that society. CO4: A study of Indian poetics leads to a study of classics. Knowledge of rhyme is very important for composing poetry. It is very important to know the Rasa sect. students come to know about Rasa Sampardaya Vikrokati Sampardaya Vidyarthiya through this course. CO5: Through Linguistics the students know classical forms of language and its sub-dialects. There is also information about the use of language and language. Hindi
	तरंगिणी **(काव्य-पुस्तक)** *r* मैथिलीशरण गुप्त *r* जयशंकर प्रसाद *r* सूर्यकांत त्रिपाठी निराला *r* सुमित्रानंदन पंत	*r* विद्यार्थी मैथिलीशरण गुप्त के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। *r* विद्यार्थी मैथिलीशरण गुप्त की उद्बोधन, बन्दा-वैरागी, आर्य-भाव, सिद्धार्थ और आ गया मेरा अंधेरा याम कविताओं का सार, व्याख्या और मूल-संवेदना को पढ़/समझ कर गुप्त जी के काव्य में प्रतिपादित विभिन्न आदर्शों/मूल्यों को रेखांकित कर पाएंगे। गुप्त जी की राष्ट्रीय भावना से ओत-प्रोत कविताओं से सीख लेकर एक जिम्मेदार नागरिक बन पाएंगे। *r* विद्यार्थी जयशंकर प्रसाद के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। *r* विद्यार्थी जयशंकर प्रसाद की रचनाओं जाग री, विषाद, आँसू, श्रद्धा और बढ़े चलो कविताओं के माध्यम से उनके छायावादी काव्य-आदर्शों से परिचय प्राप्त कर पाएंगे। प्रसाद जी की कविताओं के माध्यम से वे छायावादी काव्य की विलक्षणताओं से परिचय पा

		सकेंगे। r विद्यार्थी सूर्यकांत त्रिपाठी निराला के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। r विद्यार्थी सूर्यकांत त्रिपाठी निराला की मुक्ति, जुही की कली, सोचा कवि ने, वीणा वादिनि वर दे और रानी और कानी कविताओं के माध्यम से उनकी वैविद्यमुखी काव्य-प्रतिभा से परचिय प्राप्त कर सकेंगे। कवि की राष्ट्रीयता और सामाजिक प्रतिबद्धता से विद्यार्थी सीख लेंगे। r विद्यार्थी सुमित्रानंदन पंत के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। r विद्यार्थी सुमित्रानंदन पंत की स्नेह चाहिए, जीवन-यान, तेरा कैसा गान, दो मित्र और वाचाल कविताओं के माध्यम से पंत जी के काव्य-सिद्धांतों और उनके प्रकृति प्रेम से परिचित होंगे। पंत जी ने अपनी कविताओं में निष्प्राण प्रकृति में प्राण-प्रतिष्ठा करके अद्भुत कार्य किया है।
	मि. अभिमन्यु **(नाटक)**	r विद्यार्थी नाटक के माध्यम से समाज और जीवन की विविध समस्याओं से अवगत होंगे और उन समस्याओं के समाधान के लिए प्रेरित होंगे। उनमें समस्या-समाधान की क्षमता विकसित होगी। r नाटक के माध्यम से वर्तमान युग की विसंगतियों से विद्यार्थियों को परिचित करवाएगा। इस प्रतीकात्मक नाटक के माध्यम से विद्यार्थी पौराणिक और आज के अभिमन्यु के बुनियादी फर्क को समझ सकेंगे। जहां पौराणिक अभिमन्यु अनेक महारथियों से घिरा हुआ और अपनी मृत्यु के विषय में जानते हुए भी उनसे जूझता है, वहीं आज का अभिमन्यु कलैक्टर राजन अपनी ईमानदारी और आदर्शवादिता को ताक पर रखकर नौकरशाही और भ्रष्ट राजतंत्र के चक्रव्यूह में फँस कर आत्म-समर्पण कर देता है और खुद को उस भ्रष्ट तंत्र का हिस्सा बना कर अपनी हार को स्वयं स्वीकार कर लेता है। विद्यार्थी इस तथ्य से अवगत होंगे कि आज की यही त्रासदी है कि हर ईमानदार व्यक्ति अंतत: भ्रष्ट तंत्र का हिस्सा बन जाता है अथवा मार दिया जाता है।

	हिन्दी साहित्य का इतिहास *r* रीतिकाल **समीक्षा सिद्धांत** *r* हिन्दी नाटक **व्यावहारिक व्याकरण** *r* समाकृति भिन्नार्थक शब्द युग्म *r* स्वर और व्यंजन संधि *r* संधि-विच्छेद *r* वाIय-शुद्धि *r* विराम चिह्न *r* तकनीकी शŰदावली	*r* विद्यार्थी हिन्दी साहित्य के इतिहास का परिचय प्राप्त करेंगे। विद्यार्थी हिन्दी साहित्य के सृजन की पृष्ठभूमि और साहित्यिक प्रवृतियों को समझने में सक्षम होंगे। *r* विद्यार्थी साहित्य के माध्यम से जीवन-मूल्यों और जीवन-दर्शन को समझने का प्रयास करेंगे। *r* रीतिकाल की राजनैतिक, सामाजिक, धार्मिक, आर्थिक परिस्थितियों, साहित्यिक प्रवृतियों, रीतिबद्ध, रीतिमुक्त आदि काव्यधाराओं और केशव, बिहारी, घनानंद की रचनाओं से परिचित होकर विद्यार्थी रीतिकाल के साहित्य के विषय में समुचित ज्ञान प्राप्त करेंगे और इस काल-खण्ड के साहित्य की निर्माण प्रक्रिया को समझने में सक्षम होंगे। *r* हिन्दी नाटक विधा की शास्त्रीय पद्धति से विद्यार्थियों का परिचय कराया जाएगा। समीक्षा सिद्धांत के महत्व को प्रतिपादित किया जाएगा। *r* हिन्दी नाटक की परिभाषा, उपन्यास के विविध तत्व और उपन्यास के बहु-आयामी वर्गीकरण से विद्यार्थियों को परिचित कराया जाएगा। *r* शुद्ध भाषा लिखने एक कला है। अत: यह आवश्यक है कि प्रत्येक वाक्य को शुद्ध रूप में पढ़ा/लिखा जाए। उसके लिए व्याकरण का ज्ञान और अत्त्यास परमावश्यक है। *r* विद्यार्थी एक जैसे दिखने वाले परन्तु भिन्न अर्थों वाले शब्दों का अंतर और ज्ञान प्राप्त कर सकेंगे। इससे उनकी विश्लेषण क्षमता में वृद्धि होगी। *r* संधि और संधि-विच्छेद से विद्यार्थी शब्दों के मेल से नये शब्दों के निर्माण की प्रक्रिया का ज्ञान प्राप्त कर सकेंगे।

		r वाक्य शुद्धि का अत्यास करके विद्यार्थी भाषा को शुद्ध और व्याकरण–सम्मत लिखने में सक्षम हो पाएंगे। r विराम चिह्नों के अभाव में भाषा के भावों को सही तरीके से अभिव्यक्त करना कठिन हो जाता है, अत: भाव और विचारों की सही अभिव्यक्ति के लिए विराम चिह्नों का ज्ञान विद्यार्थियों के लिए अत्यंत उपयोगी होगा। r तकनीकी शब्दावली का ज्ञान प्राप्त कर विद्यार्थी यह जान पाएंगे कि विविध कार्यालयों में हिन्दी की पारिभाषिक शब्दावली का सटीक प्रयोग कैसे किया जाता है और इसकी आवश्यक्ता एवं उपयोगिता क्या है। English After completion of this course, the student will be able to: CO1: enhance their knowledge in different literary tradition, genres, literary movements and styles CO2: relate to various literary aspects through the texts which capacitate them to enrich their literary, research and cultural values and make them aware of self and society. CO3: describe the various forms of figures of speech and classify a detailed study of literary devices. CO4: comprehend extensive knowledge of english as language in its various textual forms and construct them to be creative, thoughtful and effective communicator. CO5: classify different types of dialogue writing.
0224	History (History of India 1750-1964 A.D)	After completion of this course, the students will be able to: CO1: explain the broad development in the history of India in modern times. CO2: explain about Founder of British Rule, Circumstances leading to the battles of

		Plassey and Buxar and their significance, Reference of Warren Hastings. CO3: describe about Administrative Reforms under Cornwallis, William Bentinck and Dalhousie. CO4: explain about the uprising of 1857, Political, Socio-religions, economic and immediate clauses, failure and results of uprising. CO5: explain about Economic changes, British Agrarian Policies and Commercialization of agriculture, rural indebtedness, Growth of modern industry, theory of economics change. CO6: state the Socio-Religious Reform Movements i.e. Brahmo Samaj, Aligarh Movement, Arya Samaj, Ramakrishna Mission. CO8: explain about the Growth of Political Consciousness, Foundation and Growth of the Indian National Congress from 1885-7905, Growth of Nationalism 1905-1919. CO9: describe about the Indian National Movement, non-cooperation Movement 1920-1922, The Civil Disobedience Movement. CO10: explain about Rise of Communal Politics, Separate electoral, Muslim League and Pakistan Resolution. CO11: explain about Partition and Independence, Quit India Movement, British Proposals for independence, Indian Independence Act of 1947. CO12: explain about significant Developments after independence 1947-1964, Making of the Constitution, integration of princely states, the Re-organisation of States.
MAT-0241	Mathematics (Advanced Calculus-I)	After completing the course, students will be able to:

		CO1: solve problems of Limit and Continuity of functions of Two or More Variables. CO2: describe the concept of Partial differentiation, derivability of real valued functions of two or three variables. CO3: differentiate Schwarz and Young's theorem and their applicability, statements of Inverse and Implicit function theorems and applications. CO4: practice the concept of differentiation, gradient, curl, divergence and its applications. CO5: apply Euler theorem, Taylor theorem, Jacobians, Envelopes and Evolutes. CO6: solve problems of Maximum, Minimum and saddle point of functions of two and three variables and Lagrange's method to solve questions related to this topic
MAT-0242	(Differential Equations I)	After completing the course, Student will be able to: CO1: differentiate and find solutions of first and higher order differential equations. CO2: examine the techniques for obtaining solutions to ordinary differential equations. CO3: investigate the qualitative and quantitative behavior of solutions of system of differential equations. CO4: analyze the concept of simultaneous differential equations and orthogonality. CO5: calculate by using methods of solving differential equations using variation of parameters, reduction of order. CO6: apply the concept of solving and number of problems related to natural phenomenon, engineering and many other situations. CO7: describe the concept of Charpit general method of solutions.
MAT-0243	(Statics)	After completing the course, students will be able to:

		CO1: describe and apply the concept of composition and resolution of Concurrent Forces, Parallelogram and Triangle law of forces, Lami's theorem, Components of Forces and its applications in daily life. CO2: analyze the concepts of equilibrium conditions for coplanar concurrent forces, smooth inclined planes. CO3: explain the concept of Parallel forces and its types (parallel like and unlike forces) and resultant of these forces. CO4: solve problems related to Moment, Couple of forces, reduction of coplanar forces to Single force and Couple. CO5: describe Friction, Laws of Friction, problems related to Ladders, Rods, Spheres and Circle.
0216	Agriculture (Agricultural Diversification and Machinery)	After the completion of the course, the students will be able to: CO1: aid on works such as dairy, poultry, fishery, mushroom cultivation, animal husbandry, bee keeping. CO2: maintain grassy lawns and flower beds. CO3: raise winter and summer ornamental flowers (rose, gladioli, dahlias, dianthus, and foliage plants). CO4: get skills of landscape of an educational institute, factory, panchayat lands and office buildings. CO5: describe about medicinal, aromatic and spice plants. CO6: grow non-conventional plants. CO7: explain about Gentically Modified crops. CO8: describe the fundamentals of land measurements and land revenue. CO9: describe about the important parts of the tractor,

		combine, thresher and their maintenance. CO10: explain about various agricultural tools and implements.
0295	Retail Marketing	The students who successfully complete this course will be able to: CO1: use the retail strategies, building up a sustainable competitive advantage and core competence. CO2: elucidate the main strategies adopted by retailers, internationalization as a strategy. CO3: outline the process of choosing a store location and to discuss the various criteria for evaluating general retail locations and the specific sites within them. CO4: discuss the functions and process of Human resource management. CO5: analyze the structure of the Retail Organization across different retail formats. CO6: state the role of Merchandise Management in retail business. CO7: improve their practical skills in the retail sector.
CS05	Computer Science (Computer Organisation)	The students after completing this course, will be able to: CO1: explain the structure, function and characteristics of computer systems. CO2: identify, understand and apply different number systems and codes. CO3: describe the basic building block concepts in combinatorial logic design, sequential building block, Microinstructions. CO4: state the concept of Microinstructions, Microprocessor and assembly language in detail.
CS06	(Object Oriented Programming Using C++)	The students after completing this course, will be able to: CO1: differentiate between object oriented

PCS03	(Practical Based on Paper CS06)	programming and procedural oriented language and data types in C++. CO2: C++ features such as composition of objects, constructor, destructor, Operator overloading, inheritance, Polymorphism etc. CO3: Students will understand the concept of Virtual and pure virtual functions. The students after completing this course, will be able to: CO1: make programs on the concept of Classes and objects, access specifiers. CO2: do programming on declaring member function inside and outside class, static and friend functions. CO3: design programs on Constructor and destructor, Inheritance with its types, Private, public protected, Concept of polymorphism, operator overloading, method overloading etc.
0238	Physical Education	After the completion of the course, the students will be able to: CO1: describe about First Aid management. CO2: follow the techniques and benefits of Gymnastics and Yoga. CO3: explain about Psychology and Sociological aspects. CO4: explain the various techniques to make a good Athlete, the process, principles, importance of Sports Training. CO5: improve their personality, motivation and be stress free. CO6: give suggestions for the improvement of sports performance.
0274	Fashion Designing (Traditional Textiles of India)	After the course the students can: CO1: explain about different types of Traditional

		Indian textiles CO2: explain the importance and relevance of Indian costumes CO3: design creations.
0218	Economics (Public Finance And International Trade)	After completing this course students will be able to: CO1: explain the concepts and functions of money, supply of money. CO2: describe the value of money and theory of money. CO3: analyze the concept of public finance, Govt. income in the form of taxes, Govt. expenditure and public debt. CO4: review International trade and theories of international trade. CO5: restate the working of international organization such as WTO, IMF, IBRD etc. CO6: describe deficit financing, its need and drawbacks. CO7: explain determination of terms of trade, factor affecting terms of trade and its impact on international trade. CO8: explain and prepare the balance of payment. CO9: describe the foreign exchange rate determination.
MUV0231	Music (Vocal)	On Completion of this course students would be able to: CO1: grasp the various theoretical aspects of prescribes Ragas, like how it originater, what are the general grammatical rules that govern the Ragas in this course etc. CO2: describe the concept of Taal and the use of various Taals in Hindustani music. CO3: describe the basic terminologies of Indian music as a whole. CO4: identify Gram, Upaj, Mukhda, Bol-baant, Khatka, Murki, Kan.

		CO5: state about Lakshans of Raagas in modern period. CO6: describe the life stories of the legendary Musicians and will get inspiration from their lives. CO7: get greater command over voice culture through Vocal patterns. CO8: describe about genres like Sargamgeet in the prescribed ragas.
0234	Political Science (Indian Government and Politics)	After the course, the students can: CO1: explain the philosophy of Indian constitutions. CO2: identify the causes, impact of British colonial rule. CO3: appreciate the various phases of Indian national movement. CO4: create value in young youth regarding the patriotism. CO5: explain about the various Government of Indian acts their provision and reforms. CO6: describe the salient features in making of Indian Constitution. CO7: appreciate the socioeconomic political factors which lead to the freedom struggle. CO8: appreciate the fundamental rights and duties and the directive principle of state policy CO9: evaluate the evolution, functioning and consequences of political parties in India. CO10: identify how electoral rules and procedure in India affect election CO11: explain the working of the Union Legislature-Parliament-Composition and Functions and the Composition and functioning of the State Legislature-Vidhan Sabha; Panchayati Raj Institutions

SEMESTER-IV		
COMPULSORY SUBJECTS		
0301	English	After completion of this course, student will be able to: CO1: critically analyse the poems. CO2: explain the current topics and come out with his/her own perception and thought. CO3: improve his/her writing skills through the practice of Report Writing. CO4: build vocabulary to use in their daily life. CO5: use the Idioms and phrases in his/her sentences. CO6: familiarise with the grammatical structure of the language to use in their daily life.
0303/0304	Punjabi/History and Culture of Punjab	After Punjabi course, the students can: CO1: 'ਛੇ ਛੱਲਾਂ' (ਇਕਾਂਗੀ ਸੰਗ੍ਰਹਿ) ਅਤੇ 'ਕੱਲਰ' (ਨਾਟਕ) ਪਾਠ-ਪੁਸਤਕ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਨਾਟਕ, ਇਕਾਂਗੀ ਅਤੇ ਰੰਗਮੰਚ ਦੇ ਆਪਸੀ ਸੰਬੰਧਾਂ ਅਤੇ ਸਿਧਾਂਤਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ । ਨਾਟਕ ਅਤੇ ਇਕਾਂਗੀ ਵਿਚਲੇ ਅੰਤਰ ਨੂੰ ਸਮਝਦੇ ਹਨ । ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਸਮੂਹਿਕ ਰੂਪ ਵਿਚ ਕੰਮ ਕਰਨ ਦੀ ਭਾਵਨਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ । ਉਨ੍ਹਾਂ ਅੰਦਰਲੇ ਰਚਨਾਤਮਕ ਅਤੇ ਕਲਾਤਮਕ ਹੁਨਰ ਨੂੰ ਹੁੰਗਾਰਾ ਮਿਲਦਾ ਹੈ । ਵਿਦਿਆਰਥੀ ਆਪਣੇ ਵਿਚਾਰ ਸੁਤੰਤਰ ਰੂਪ ਵਿਚ ਪ੍ਰਗਟ ਕਰਨ ਦੇ ਸਮਰੱਥ ਬਣਦੇ ਹਨ । ਵਿਦਿਆਰਥੀ ਨਿੱਜੀ, ਸਮਾਜਿਕ, ਆਰਥਿਕ, ਰਾਜਨੀਤਿਕ, ਸਭਿਆਚਾਰਕ ਅਤੇ ਇਤਿਹਾਸਿਕ ਮਸਲਿਆਂ ਬਾਰੇ ਜਾਨਣ ਅਤੇ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਬਣਦੇ ਹਨ । ਵਿਦਿਆਰਥੀ ਮੰਚ (ਸਟੇਜ) ਉੱਪਰ ਪੇਸ਼ਕਾਰੀ ਲਈ ਉਤਸ਼ਾਹਿਤ ਹੁੰਦੇ ਹਨ । CO2: ਅੰਗਰੇਜੀ ਤੋਂ ਪੰਜਾਬੀ ਅਨੁਵਾਦ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਦੋ ਭਾਸ਼ਾਵਾਂ ਦਾ ਗਿਆਨ ਹਾਸਿਲ ਕਰਦੇ ਹਨ । ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਇਕ ਤੋਂ ਵੱਧ ਭਾਸ਼ਾਵਾਂ ਸਿਖਣ ਦੀ ਰੁਚੀ ਪੈਦਾ ਹੁੰਦੀ ਹੈ । ਇਕ ਭਾਸ਼ਾ ਤੋਂ ਦੂਜੀ ਭਾਸ਼ਾ ਵਿਚ ਅਨੁਵਾਦ ਜਿਥੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਦੋ ਭਾਸ਼ਾਵਾਂ ਦੇ ਆਪਸੀ ਸੰਬੰਧਾਂ ਦਾ ਗਿਆਨ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ, ਉੱਥੇ ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਅਨੁਵਾਦਕ ਬਣਨ ਦੀ ਰੁਚੀ ਪੈਦਾ ਕਰਕੇ ਰੋਜ਼ਗਾਰ ਦੇ ਮੌਕੇ ਪ੍ਰਦਾਨ ਕਰਨ ਵਿਚ ਮੱਦਦ ਕਰਦਾ ਹੈ । CO3: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨਾਲ ਸੰਬੰਧਿਤ ਭਾਗ ਦਾ ਅਧਿਐਨ ਕਰਦੇ ਸਮੇਂ ਮਾਤ-ਭਾਸ਼ਾ ਪੰਜਾਬੀ ਦੇ ਨਿਕਾਸ, ਵਿਕਾਸ ਅਤੇ ਅਜੋਕੀ ਸਥਿਤੀ ਨੂੰ ਮਸਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਦੂਸਰੀਆਂ ਭਾਸ਼ਾਵਾਂ ਨਾਲ ਸੰਬੰਧ ਅਤੇ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਪੰਜਾਬੀ ਦੀ ਅਹਿਮੀਅਤ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਬਣਦੇ ਹਨ । ਇਸ ਤਰ੍ਹਾਂ ਵਿਦਿਆਰਥੀ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਪੰਜਾਬੀ ਦੀ ਅਜੋਕੀ ਸਥਿਤੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰਖਦੇ ਹੋਏ ਇਸ ਦੀ ਹੋਂਦ ਨੂੰ ਬਚਾਈ ਰੱਖਣ ਲਈ ਯਤਨਸ਼ੀਲ ਰਹਿੰਦੇ ਹਨ ।

		CO4: ਵਿਆਕਰਣ ਦੀ ਸਿੱਖਿਆ ਪ੍ਰਾਪਤ ਕਰਨ/ਪੜ੍ਹਨ ਸਮੇਂ ਵਿਦਿਆਰਥੀ ਜਿਥੇ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਬਾਰੇ ਡੂੰਘਾਈ ਵਿਚ ਗਿਆਨ ਹਾਸਿਲ ਕਰਦੇ ਹਨ ਉੱਥੇ ਪੰਜਾਬੀ ਦੇ ਇਕ-ਇਕ ਸ਼ਬਦ ਦੇ ਪਿੱਛੇ ਅੰਦਰੂਨੀ ਨਿਯਮਾਂ ਦੇ ਕਾਰਜਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ । ਭਾਸ਼ਾ ਦਾ ਇਕ-ਇਕ ਸ਼ਬਦ ਕਿਵੇਂ ਹੋਂਦ ਵਿਚ ਆਉਦਾ ਹੈ । ਫਿਰ ਸ਼ਬਦਾਂ ਤੋਂ ਵਾਕ, ਉਪਵਾਕ, ਪੈਰ੍ਹੇ ਅਤੇ ਫਿਰ ਸਮੁੱਚੀ ਰਚਨਾ ਕਿਵੇਂ ਤਿਆਰ ਹੁੰਦੀ ਹੈ । ਕਿਸੇ ਵੀ ਭਾਸ ਨੂੰ ਸਿੱਖਣ ਲਈ ਵਿਆਕਰਣ ਦੀ ਪੜ੍ਹਾਈ ਅਤੇ ਜ਼ਰੂਰੀ ਹੈ । Punjabi course outcomes translated into English CO1: Through the study of Chhe Chhallan (Solitary Collection) and Kallar (Drama) textbooks, Students gain knowledge about the interrelationships and principles of drama and theatre. Understand the difference between drama and solitude. The feeling of working as a group is created in the students. The creative and artistic skills within them get a response. Students become capable of expressing their thoughts freely. Students become capable of knowing and understandingpersonal, social, economic, political, cultural, and historical issues. Students are encouraged to perform on stage. CO2: Students gain knowledge of two languages through English to Punjabi translation. Students develop an interest in learning more than one language. While translation from one language to another language provides students with the knowledge of the interrelationship between two languages, it helps in providing employment opportunities by creating interest in the student to become a translator. CO3: Students can understand the origin, development, and present status of their mother tongue Punjabi while studying the section related to the Punjabi language. They can understand the relationship of the Punjabi language with other languages

		and the importance of their mother tongue Punjabi. In this way, the students keep trying to preserve the existence of their mother tongue Punjabi while keeping information about the current situation. CO4: While learning/reading grammar, students gain in-depth knowledge about their mother tongue, and they also gain information about the functions of internal rules behind each word of Punjabi. How each word of the language comes into being. Then how are sentences, sub-sentences, paragraphs, and then the whole composition prepared from the words? Studying grammar is essential for learning any language. History and Culture of Punjab After competition of this course, the students will be able to: CO1: explain about colonial rule in Punjab i.e. Annexation of Punjab Board of Administration. CO2: explain about Western Education introduced by Britishers. CO3: explain about Agriculture Development. CO4: explain about early socio-religious reform in all religions. CO5: explain about Socio-Religious Reform Movement i.e. Arya Samaj Singh Sabha, Ahmadiyas, Ad Dharm Movement. CO6: explain about Development of press & Literature. CO7: explain about the emergence of political Consciousness i.e. Hadar movement, Jallianwala Bagh Massacre. CO8: describe about the Gurdwara Reform movement i.e major marchas, Activities of Babbar Akalis. CO9: describe about the freedom struggle i.e. all Monuments.

		CO10: explain about the Partition of Punjab and its Aftermath. CO11: explain about Post-Independence Punjab and it gives knowledge about physical, geographical maps.
ELECTIVE SUBJECTS		
0309/0308/ 0305	Punjabi/Hindi/English	CO1: ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਕਾਵਿ ਰੰਗ' ਪੁਸਤਕ ਦੇ ਅਧਿਐਨ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆ ਨੂੰ ਸੂਫ਼ੀ ਕਾਵਿ-ਧਾਰਾ ਅਤੇ ਕਿੱਸਾ ਕਾਵਿ-ਧਾਰਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਲ ਹੁੰਦੀ ਹੈ। ਮੱਧਕਾਲੀ ਸਾਹਿਤ ਵਿੱਚ ਗੁਰਮਤਿ ਕਾਵਿ-ਧਾਰਾ ਦੇ ਨਾਲ-ਨਾਲ ਸੂਫ਼ੀ ਸਾਹਿਤ ਦੀ ਵੀ ਮਹਾਨ ਪ੍ਰੰਪਰਾ ਰਹੀ ਹੈ। ਬਾਬਾ ਫਰੀਦ ਤੋਂ ਲੈ ਕੇ ਬੁੱਲ੍ਹੇ ਸ਼ਾਹ ਤੱਕ ਦੇ ਸੂਫ਼ੀ ਸਾਹਿਤ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਵਿੱਚਵਾਤਾਵਰਣ ਮਿਲਿਆ ਹੈ। ਇਸਦਾ ਕਾਰਨ ਇਸ ਧਾਰਾ ਦੇ ਸਾਹਿਤ ਦੀ ਲੋਕ-ਪੱਖੀ ਸੂਝ ਅਤੇ ਮਹਾਨ ਸਾਹਿਤ ਵਾਲੇ ਗੁਯਾਂ ਦਾ ਧਾਰਨੀ ਹੋਣਾ ਹੈ। ਇਸੇ ਤਰ੍ਹਾਂ ਕਿੱਸਾ ਕਾਵਿ-ਧਾਰਾ ਦੇ ਅਧਾਰ ਵੀ ਲੋਕ ਚੇਤਨਾ ਵਿੱਚ ਹਨ। ਪ੍ਰੇਮ ਕਿੱਸਿਆ ਦੀ ਪ੍ਰੰਪਰਾ ਦੇ ਨਾਲ-ਨਾਲ ਨੈਤਿਕ ਅਤੇ ਵੀਰ ਗਾਥਵਾਂ ਦੇ ਕਿੱਸੇ ਵੀ ਪੰਜਾਬੀ ਦੇ ਇਸ ਅਮੀਰ ਪ੍ਰੰਪਰਾ ਦਾ ਮਹੱਤਵਪੂਰਨ ਹਿੱਸਾ ਹਨ। ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਸ ਤਰ੍ਹਾਂ ਦੇ ਅਧਿਐਨ ਰਾਹੀਂ ਨੈਤਿਕ ਜੀਵਨ ਦੀ ਸੈਲੀ ਹੈ।। CO2: ਸੁਰਿੰਦਰ ਕੁਮਾਰ ਦਵੇਸ਼ਵਰ ਦੁਆਰਾ ਸੰਪਾਦਕ ਕੀਤੀ 'ਕਥਾ ਪੁਵਾਰ' ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਜੀਵਨ ਦੀ ਮਾਰਗਦਰਸ਼ਕ ਬਣਦੀ ਹੈ। ਵੱਖ-ਵੱਖ ਕਹਾਣੀਆਂ ਰਾਹੀਂ ਜੀਵਨ ਦੀ ਸੈਲੀ ਦਿੱਤੀ ਗਈ ਹੈ। 'ਆਲ੍ਹਣੇ ਦੇ ਬੋਟ' ਕਹਾਣੀ ਰਾਹੀਂ ਦੇਸ਼-ਭਗਤੀ ਦੀ ਕੁਰਬਾਨੀ ਦੇ ਜ਼ਜ਼ਬੇ ਨੂੰ ਪੇਸ਼ ਕੀਤਾ ਗਿਆ ਹੈ। 'ਭੱਤਾ'ਕਹਾਣੀ ਰਾਹੀਂ ਨਿਮਨ ਕਿਸਾਨੀ ਦੇ ਜੀਵਨ ਅਤੇ ਮਨੁੱਖੀ ਭਾਵਨਾਵਾਂ ਦੀ ਪੇਸ਼ਕਾਰੀ ਬੜੇ ਹੀ ਮਨੋਵਿਗਿਆਨਕ ਫੇਰੀ ਰਾਹੀਂ ਪੇਸ਼ ਕੀਤੀ ਗਈ ਹੈ। 'ਜੀਨਤ ਆਪਾ' ਕਹਾਣੀ ਰਾਹੀਂ ਸਮਾਜਿਕ ਮਰਯਾਦਾ ਵਿੱਚ ਜਕੜੀ ਇਸਤਰੀ ਦੀ ਜੀਣ-ਥੀਣ ਦੀ ਪ੍ਰਬਲ ਇੱਛਾ ਨੂੰ ਪੇਸ਼ ਕੀਤਾ ਗਿਆ ਹੈ। 'ਸਵੇਰ ਹੋਣ ਤੱਕ' ਕਹਾਣੀ ਰਾਹੀਂ ਪੇਡੂ ਕਿਸਾਨ ਦੇ ਥਕੇਵੇਂ 'ਦੁੱਖਾਂ ਬੇਅਰਾਮੀ ਭਰਪੂਰ ਜੀਵਨ ਦੀ ਪੇਸ਼ਕਾਰੀ ਕੀਤੀ ਗਈ ਹੈ। 'ਸ਼ੇਰਨੀਆਂ' ਕਹਾਣੀ ਰਾਹੀਂ ਬਦਲ ਰਹੇ ਸਮਾਜ ਦੀ ਝਾਕੀ ਪੇਸ਼ ਕੀਤੀ ਗਈ ਹੈ। ਬਦਲ ਰਹੇ ਸਮਾਜ ਵਿੱਚ ਕੁੜੀਆਂ ਵੀ ਮਰਦਾਂ ਵਾਂਗ ਹਰ ਤਰ੍ਹਾਂ ਦੇ ਕੰਮ ਵਿੱਚ ਆਪਣਾ ਉਸਾਰੂ ਰੋਲ ਅਦਾ ਕਰ ਰਹੀਆਂ ਹਨ 'ਗੋਈ' ਕਹਾਣੀ ਰਾਹੀਂ ਸਭਿਆਚਾਰਕ ਕਦਰਾਂ ਕੀਮਤਾਂ

		ਕਾਰਨ ਘਰ ਵਿੱਚ ਪੈਦਾ ਹੋਣ ਵਾਲਾ ਤਣਾਉ ਹੈ। ਇਸ ਦਾ ਵਿਸ਼ਾ ਨਵੀਨ ਅਤੇ ਮਨੋਵਿਗਿਆਨਿਕ ਹੈ। 'ਸੱਗੀ ਫੁੱਲਾਂ' ਕਹਾਣੀ ਦਾ ਵਿਸ਼ਾ ਵੀ ਪੰਜਾਬ ਦੀ ਨਿਮਨ ਕਿਸਾਨੀ ਦੇ ਜੀਵਨ ਦੇ ਵੱਖ-ਵੱਖ ਪਹਿਲੂਆਂ ਨੂੰ ਦਰਸਾਉਂਦਾ ਹੈ। ਕਿਸਾਨੀ ਦੀਆਂ ਤੰਗੀਆਂ ਅਤੇ ਸਰੀਕੇ ਬਾਜੀ ਨੂੰ ਬਾਖੂਬੀ ਪੇਸ਼ ਕੀਤਾ ਗਿਆ ਹੈ। 'ਕਬਰਾਂ ਤੋਂ ਸਿਵਿਆਂ' ਨੂੰ ਕਹਾਣੀ ਰਾਹੀਂ ਕੱਟੜਧਰਮੀ ਵਿਚਾਰ ਧਾਰਾ ਅਤੇ ਫਿਰਕੂ ਪਾਗਲਪਨ ਵਿਰੁੱਧ ਨਫ਼ਰਤ ਦੇ ਭਾਵ ਉਤਪੰਨ ਹੁੰਦੇ ਹਨ। 'ਮੋਹਮਿੱਟੀ' ਕਹਾਣੀ ਰਾਹੀਂ ਪੰਜਾਬ ਦੀ ਮੱਧ ਵਰਗੀ ਕਿਸਾਨ ਨੂੰ ਪੇਸ਼ ਕੀਤਾ ਗਿਆ ਹੈ। ਜਿਸ ਵਿੱਚ ਇੱਕ ਕਿਸਾਨ ਸਖ਼ਤ ਮਿਹਨਤ ਕਰਦਾ ਹੈ, ਪਰ ਇਸ ਦੇ ਬਾਵਜੂਦ ਉਹ ਆਰਥਿਕ ਤੰਗੀਆਂ ਤੇ ਪਰੇਸ਼ਾਨੀਆਂ ਦਾ ਸਾਹਮਣਾ ਕਰਦਾ ਹੋਇਆ ਘਰੇਲੂ ਰਿਸ਼ਤਿਆਂ ਦੇ ਤਣਨੀਤ ਵਿਚੋਂ ਗੁਜ਼ਰਦਾ ਹੈ। 'ਇੱਕਵੀਂ ਸਦੀ' ਕਹਾਣੀ ਰਾਹੀਂ ਅਜੋਕੇ ਮਨੁੱਖ ਨੂੰ ਆਪਣੇ ਆਂਢ-ਗੁਆਢ ਤੇ ਰਿਸ਼ਤੇਦਾਰਾਂ ਨਾਲ ਮਿਲ-ਗਿਲ, ਅਪਣੱਤ ਤੇ ਸਾਂਝ ਨਾਲ ਰਹਿਣ ਦੀ ਪ੍ਰੇਰਨਾ ਦੇਣਾ ਹੈ। 'ਬਰਫ ਦਾ ਟਾਨਵ' ਕਹਾਣੀ ਰਾਹੀਂ ਗਣੇਸ਼ੀਅਰ ਦੀ ਰਾਖੀ ਕਰ ਰਹੇ ਸੈਟਿਕਸ ਦੀਆਂ ਦੁਸ਼ਵਰਗੀਆਂ ਨੂੰ ਪੇਸ਼ ਕੀਤਾ ਗਿਆ ਹੈ। ਸੈਨਿਕ ਨਵੇਂ ਗਣੇਸ਼ੀਅਰ ਦੇ ਭਿਆਨਕ ਰੂਪ ਦਾ ਸਾਹਮਣਾ ਕਰਦੇ ਹੋਏ ਦੇਸ਼ ਦੀ ਰਾਖੀ ਕਰਦੇ ਹਨ। 'ਦਰਦ ਵਿਛੋੜੇ ਦਾ ਹਾਣੀ' ਕਹਾਣੀ ਰਾਹੀਂ ਦੇਸ਼ ਦੀ ਵੰਡ ਦੇ ਦੁਖਾਂਤ ਨੂੰ ਪੇਸ਼ ਕਰਦੇ ਹੋਏ ਆਪਣਿਆਂ ਤੋਂ ਵਿਛੜਨ ਦੇ ਦਰਦ ਨੂੰ ਪੇਸ਼ ਕੀਤਾ ਗਿਆ ਹੈ। CO3: ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਰਾਹੀਂ ਵਿਦਿਆਂਰਥੀਆਂ ਨੂੰ ਸ਼ੂਫੀ ਕਾਵਿ ਅਤੇ ਕਿੱਸਾ ਕਾਵਿ ਦੀ ਅਮੀਰ ਪ੍ਰੰਪਰਾ ਨਾਲ ਜਾਣ-ਪਛਾਣ ਕਰਵਾਈ ਗਈ ਹੈ। CO4: ਸਾਹਿਤ ਅਲੋਚਨਾ, ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਤੇ ਸਮਾਜ, ਸਾਹਿਤ ਤੇ ਸ਼ਖਸ਼ੀਅਤ , ਸਾਹਿਤ ਤੇ ਸ਼ੈਲੀ, ਸਾਹਿਤ ਤੇ ਮਨੋਵਿਗਿਆਨ, ਸਾਹਤ ਤੇ ਵਿਗਿਆਨ ਦੇ ਵਿਸ਼ਿਆਂ ਰਾਹੀਂ , ਸਾਹਿਤ ਦੀ ਸੈਲੀ ਕਰਵਾਈ ਗਈ ਹੈ। ਸਾਹਿਤ ਸਮਾਜ ਦੇ ਸੰਬੰਧਾਂ ਨੂੰ ਦਰਸਾਉਂਦੇ ਹੋਏ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਪ੍ਰਤੀ ਦਿਲਚਸਪ ਬਣਾਉਣ ਲਈ ਪ੍ਰੇਰਿਆ ਗਿਆ ਹੈ। CO5: ਉਪਭਾਸ਼ਾ ਵਿਗਿਆਨ ਰਾਹੀਂ ਭਾਸ਼ਾ ਦੀ ਜਾਣਕਾਰੀ ਅਤੇ ਉਪਭਾਸ਼ਾ ਦੀ ਪਛਾਣ ਵਿਧੀ ਨੂੰ ਪੇਸ ਕੀਤਾ ਗਿਆ ਹੈ। ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀਆਂ ਉਪਭਾਸ਼ਾਵਾਂ ਦੀ ਸਮਝ ਹੋਣੀ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਜ਼ਰੂਰੀ ਹੈ। Punjabi course outcome translated into English: CO1: Through the study of medieval Punjabi poetry book the students get knowledge about Sufi poetry and Qisa

		poetry. In medieval literature, Gurmat poetry has been a great tradition as well as Sufi literature. Sufi literature from Baba Farid to Bulleh Shah has found a context in the history of Punjabi literature. The reason for this is the people-oriented understanding of this stream of literature and the adoption of great literary figures. Similarly, the basis of Kisa Kavi-Dhara is also in people's consciousness. Along with the tradition of love stories, moral and heroic tales are also an important part of this rich tradition of Punjabi. Through the study of these poems, the students get knowledge about morality. CO 2: 'Katha Puwar' edited by Surinder Kumar Daveshwar becomes a guide to the life of the students. Life has been told through different stories. The spirit of patriotic sacrifice has been presented through the story of 'Alahne De Bot'. Through the story 'Bhatta', the life of the lowly peasants and the presentation of human emotions have been presented through a very psychological visit. Through the story of 'Jeenat Apa', the strong desire of a poor woman to live and eat has been presented in social norms. Through the story of 'till dawn, the fatigue, suffering, and discomfort of the peasant farmer's life has been presented. A tableau of the changing society has been presented through the story of 'Sherniyan'. In the changing society, girls are also playing a constructive role in all kinds of work like men Through the story of 'Goi', there is tension in the home due to cultural values. Its subject matter is

		innovative and psychological. The theme of the story 'Sagi Phulan' also shows various aspects of the life of the lowly peasants of Punjab. The hardships of the peasantry and Sarike Baji have been well presented. Through the story of 'Kabaran Te Siwaan', sentiments of hatred against the sectarian ideology and communal madness are generated. The middle-class farmer of Punjab has been introduced through the story of 'Mohmitty'. Which a farmer works hard, but despite this, he goes through the strain of domestic relations while facing economic hardships and troubles. Through the story of 'First Century', the modern man is to be inspired to live in harmony with his neighborhood and relatives. Through the story 'Barf da Tanav', the misdeeds of Satiks guarding Ganesha have been presented. Soldiers protect the country while facing the terrifying form of the new Ganesha. Through the story 'Dard Vikhode Da Haani', presenting the tragedy of the partition of the country, the pain of separation from oneself has been presented. CO3: Students are introduced to the rich tradition of Sufi poetry and Qisa poetry through the history of Punjabi literature. CO4: Literary Criticism, through the subjects of literature and society, literature and personality, literature and style, literature and psychology, and literature and science, a review of literature has been conducted. Literature is encouraged to make students interested in literature by showing the relationship between

		society. CO5: Language information and dialect identification methods are presented through dialect studies. Students get an understanding of the dialects of the Punjabi language. Hindi r विद्यार्थी धर्मवीर भारती के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। r विद्यार्थी धर्मवीर भारती की टूटा पहिया, अवशिष्ट, फूल, मोमबतियां, सपने और कनुप्रिया कविताओं के माध्यम से उनकी वैविद्यमुखी काव्य-प्रतिभा से परचिय प्राप्त कर सकेंगे। r विद्यार्थी महादेवी वर्मा के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। r विद्यार्थी महादेवी वर्मा की ऐसा तेरा लोक, फिर विकल हैं प्राण मेरे, यह मंदिर का दीप, निभृत मिलन और क्या पूजन क्या अर्चन रे कविताओं का सार, व्याख्या और मूल-संवेदना को पढ़/समझ कर महादेवी जी के काव्य में प्रतिपादित विभिन्न आदर्शों/मूल्यों को रेखांकित कर पाएंगे। आधुनिक मीरा महादेवी वर्मा की आध्यात्मिक प्रेम-भावना और इष्ट के प्रति तड़प से ओत-प्रोत कविताओं मैं प्रेमा भक्ति की पराकाष्ठा दिखाई देती है। r विद्यार्थी अज्ञेय जी के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। r विद्यार्थी अज्ञेय की रचनाओं जो कहा नहीं गया, सो रहा है झोंप, मुक्त है आकाश और यह महाशून्य का शिविर कविताओं का सार, व्याख्या और मूल-संवेदना को पढ़/समझ कर अज्ञेय जी के काव्य में प्रतिपादित विभिन्न आदर्शों/मूल्यों और प्रयोगवादी काव्य-आदर्शों से परिचय प्राप्त कर पाएंगे।
	तरंगिणी **(काव्य-पुस्तक)** r महादेवी वर्मा r अज्ञेय r धर्मवीर भारती	

		r विद्यार्थी धर्मवीर भारती के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। r विद्यार्थी धर्मवीर भारती की टूटा पहिया, अवशिष्ट, फूल, मोमबतियां, सपने और कनुप्रिया कविताओं के माध्यम से उनकी वैविद्यमुखी काव्य-प्रतिभा से परचिय प्राप्त कर सकेंगे। r विद्यार्थी एकांकी के माध्यम से समाज और जीवन की विविध समस्याओं से अवगत होंगे और उन समस्याओं के समाधान के लिए प्रेरित होंगे। उनमें समस्या-समाधान की क्षमता विकसित होगी।
	आदर्श एकांकी संग्रह r समुद्रगुप्त पराक्रमांक r मैत्री r नये मेहमान r मेंड़ तोड़ दी r दूर और पास	r समुद्रगुप्त पराक्रमांक एकांकी के माध्यम से विद्यार्थी सम्राट समुद्रगुप्त के कुशल प्रशासन, बुद्धि कौशल और राजनैतिक समझ का ज्ञान प्राप्त करेंगे और उसको अपने जीवन में उतार पाएंगे। विकट परिस्थितियों में कैसे सहज रह कर न्याय किया जाता है, इस एकांकी से भली-भांति पता चल जाता है। r मैत्री एकांकी के माध्यम से विद्यार्थी स्वार्थप्रियता और लोलुपता से होने वाले दुष्परिणामों से परिचित होंगे। लालच और स्वार्थप्रियता कैसे दो अभिन्न मित्रों को दुश्मन बना सकती है, यह इस एकांकी में अत्यंत नाटकीय ढंग से प्रस्तुत किया गया है। विद्यार्थी यह सीख पाएंगे कि सफल मैत्री में लालच, स्वार्थप्रियता और अहंकार का कोई स्थान नहीं होना चाहिए। r नये मेहमान एकांकी मध्यवर्गीय परिवारों की सामाजिक-आर्थिक समस्यायों पर प्रकाश डालती है। लेखक ने इसके माध्यम से प्रेम और कर्त्तव्य के संबंध पर प्रकाश डाला है। विद्यार्थी यह जान पाएंगे कि कैसे अनचाहे मेहमान जीवन में उथल-पुथल ला सकते हैं। r मेंड़ तोड़ दी एकांकी के माध्यम से लेखक ने ग्रामीण किसानों के जीवन और उनकी समस्यायों को अंकित किया है। अकसर देखा गया है कि गाँवों में बलिष्ठ और दबंग किसान आपनी गुण्डागर्दी से सारे गाँव को आतंकित करते हैं। विद्यार्थी यह सीख पाएंगे कि दया, सहिष्णुता और एकता ऐसे मूल्य हैं जिन से किसी को भी सुधारा जा सकता है। दबंग से दबंग व्यक्ति भी एकता को हरा या

		दबा नहीं सकता। r दूर और पास में लेखक ने टूटते संयुक्त परिवारों की समस्या को उठाया है परन्तु साथ ही यह भी सिद्ध करने का प्रयास किया है कि नाखुनों से कभी माँस को अलग नहीं किया जा सकता। विद्यार्थी इस एकांकी से यह सीख लेंगे कि शारीरिक दूरी कभी दिलों को दूर नहीं कर सकती और नम से बंधे रिश्ते कभी नहीं टूटा करते।
	हिन्दी साहित्य का इतिहास r आधुनिक काल	r विद्यार्थी हिन्दी साहित्य के इतिहास का परिचय प्राप्त करेंगे। विद्यार्थी हिन्दी साहित्य के सृजन की पृष्ठभूमि और साहित्यिक प्रवृतियों को समझने में सक्षम होंगे। विद्यार्थी साहित्य के माध्यम से जीवन-मूल्यों और जीवन-दर्शन को समझने का प्रयास करेंगे। r विद्यार्थी हिन्दी साहित्य के आधुनिक काल के भारतेन्दु युग और द्विवेदी युग के अतिरिक्त छायावाद, प्रगतिवाद, प्रयोगवाद और नयी कविता जैसे वादों की पृष्ठभूमि, विशेषताएँ और काव्यादर्शों से परिचित होंगे। वे यह जान पाएंगे कि कैसे यह काल विविध वादों और विचारों को आत्मसात करता चलता है।
	समीक्षा सिद्धांत r हिन्दी एकांकी	r हिन्दी एकांकी विधा की शास्त्रीय पद्धति से विद्यार्थियों का परिचय कराया जाएगा। समीक्षा सिद्धांत के महत्व को प्रतिपादित किया जाएगा। r हिन्दी एकांकी की परिभाषा, उपन्यास के विविध तत्व और उपन्यास के बहु-आयामी वर्गीकरण से विद्यार्थियों को परिचित कराया जाएगा।
	व्यावहारिक व्याकरण एवं	r शुद्ध भाषा लिखना एक कला है। अत: यह आवश्यक है कि प्रत्येक वाक्य को शुद्ध रूप में पढ़ा/लिखा जाए। उसके लिए व्याकरण का ज्ञान और अत्यास परमावश्यक है। r सार-लेखन, विस्तार-लेखन और कार्यालयीय पत्र-लेखन से विद्यार्थी अपने लेखन-कौशल को निखार सकेंगे और भविष्य में

	रचना r सार लेखन r विस्तारण/विस्तार लेखन r कार्यालयीय पत्र–लेखन r टिप्पणी लेखन	इस कौशल को वे अपने व्यावसायिक जीवन में इस्तेमाल कर पाएंगे। r टिप्पणी लेखन का ज्ञान प्राप्त कर विद्यार्थी यह जान पाएंगे कि विविध कार्यालयों में हिन्दी की टिप्पणियों का सटीक प्रयोग कैसे किया जाता है और इसकी आवश्यक्ता एवं उपयोगिता क्या है। English After completion of this Semester student will be able to: CO1: comprehend the richness of literature and make the critical anaylsis of poems. CO2: relate various literary aspects through the texts which capacitate them to enrich their literary, research and cultural values and make them aware of self and society. CO3: describe the various forms of figure of speech and classify a detailed study of literary devices. CO4: compile and analyze the different ways in which the grammar has been described like precis writing and comprehension. CO5: improve and develop his/her reading and writing skills through one word substitution.
0397	History (History of India 1469-1849 A.D)	After completion of this course, the students will be able to: CO1: explain about the broad development in the History of the Punjab from the mid15th to the mid19th Century i.e. The medieval period. CO2: explain about the life and teachings of Shri Guru Nanak Dev ji. CO3: explain about Shri Guru Hargobind ji, new policy And its identification, martyrdom of Shri Guru Tegh Bahadur ji and its significance. CO4: explain about circumstances leading to the creation of Khalsa and its significance the new injunctions and symbols of the Khalsa.

		CO5: describe about the establishment of independent rule under Banda Bahadur, Socio-economic transformation. CO6: explain about the rule of Rakhi, Gurmata and Dal Khalsa in 18th Century Policy, emergence of autonomous chiefs. CO7: explain about unification under Ranjit Singh, Expansion of the kingdom of Lahore, Civil and Provincial Administration, Land Reverse System Under Maharaja Ranjit Singh. CO8: describe about social structure in the early 19th century Punjab. CO9: It provides knowledge to the students about Anglo-Sikh relations up to 1839, Political development 1839-1849. CO10: explain about First and Second Anglo-Sikh Wars and the annexation of the Punjab. CO11: explain about important historical places of the Punjab in the outline map of Punjab, Battle of Banda Bahadur, Kingdom of Lahore.
MAT-0341	Mathematics (Advanced Calculus-II)	After completing the course, students will be able to: CO1: explain the concept of Sequences, bounded sequences, Convergence and Divergence and Oscillation of sequences, CO2: analyse the theorems related to Sequences, Monotonic Sequences, and Cauchy's Convergence of sequences. CO3: explain the Sequential continuity and Uniform continuity of Functions of Single Variable. CO4: use Series and tests to check the convergence and non-convergence of series like comparison test. CO5: perform many tests like Cauchy's Integral test, Cauchy's Root test, Ratio test, D'Alembert test etc. and their difference from one another to solve various problems.

		CO6: rearrange absolute Convergent series and Riemann's Rearrangement Theorem.
MAT-0342	(Differntial Equations II)	After completing the course, students will be able to: CO1: solve questions of basic concepts of Power Series methods, Bessel and Legendre functions. CO2: describe about partial differential equations of first order, Integral Surfaces and Orthogonality of System of Surfaces. CO3: describe the concepts of Laplace transforms, Inverse Laplace transforms and its applications. CO4: verify the existence theorem for Laplace transformations and its applications.
MAT-0343	(Dynamics)	After completing the course, students will be able to: CO1: describe and analyze Motion of particle with constant acceleration, acceleration of Falling bodies and its practical applications. CO2: analyze Motion of two particles connected with a string, motion along smooth inclined plane, Constrained Motion along plane. CO3: verify motion under gravity and motion of any particle in vertically upward direction. CO4: describe the concept of Simple Harmonic Motion and Elastic String. CO5: apply Curvilinear motion of a particle and will able to solve day to day problems. CO6: apply the concepts of Work, Power, Potential Energy and the effect of gravitation on these Forces. CO7: describe and solve problems regarding The concept of Relative Motion and various topics related to this concept like velocity and acceleration. CO8: describe the various types of momentum like Angular and Impulsive.
	Agriculture	After the completion of the course, the students will be

0316	(Cultivation Practices of Vegetables, Timber and basic Statistical Methods)	able to: CO1: describe about the tillage, fundamentals and principles of tillage, zero tillage, and tillage implements. CO2: describe about the cultivation practices of potato, tomato, bhindi, cabbage, onion and asparagus. CO3: explain about timbers and lumbers. CO4: raise Dalbergia, Tectona, Poplar and Eucalyptus trees. CO5: apply statistical methods for agricultural work including mean, mode, median, chi-square, standard deviation.
0395	Retail Marketing	The students who successfully complete this course will be able to: CO1: state the impact of consumers, manufacturers, government, and competition in decision making during retail pricing. CO2: apply the retail pricing strategies and tools. CO3: use the various methods of advertising and sales promotion employed by the retailer. CO4: discuss the tools and techniques of personal selling. CO5: examine the role and impact of publicity for the retail organization. CO6: explain the concept and techniques of retail store management and Visual merchandising.
CS07	Computer Science (Data Base Concepts)	The students after completing this course, will be able to: CO1: discuss Database management systems, databases and its applications. CO2: state about the good formal foundation on the relational model. CO3: explain about relational algebra and calculus. CO4: normalize the database & understand the internal

		data structure.
CS08	(Data Structures)	Students after completing this course, will be able to: CO1: apply the basic concepts of data structures and algorithms. CO2: describe the concepts about searching and sorting techniques. CO3: apply the basic concepts about stacks, queues, lists, trees and graphs CO4: write the algorithms and follow step by step approach in solving problems with the help of fundamental data structures
PCS04	(Practical Based Paper CS08)	The students after completing this course, will be able to: CO1: state how data can be stored in memory. CO2: implement Arrays and various operations on array. CO3: implement Stacks and Queues and various operations on them. CO4: implement the concept of Linked List. CO5: implement the concept of various types of Trees. CO6: implement various searching and sorting techniques along with their Complexity. CO7: implement Graph and Graph traversal techniques.
0338	Physical Education	After the course, the students will be able to: CO1: describe about the Preliminary idea and History of Physical Education. CO2: describe about Biological and Sociological foundation of Physical education. CO3: state the meaning of respiration and the organs of respiratory system. CO4: develop exercise of human's Organic system. CO5: state about function of composition of blood system. CO6: state about control of heart rate , types of blood

		vessels and cardiac cycle.
0372	Fashion Designing (History of Indian and World Costume)	After the course, the students can: CO1: explain the history and revolution of World Costumes. CO2: explain the importance and relevance of Indian and World Costumes.
	(Garment Designing and Illustration-Practical)	CO1: explain about Fashion illustration. CO2: draft basic blocks. CO3: create various structural of Drafting and adaptation of collars and sleeves. CO4: design garments.
	(Pattern Making and Construction Techniques-Practical)	CO1: construct Garments. CO2: describe about different aspects of Pattern Making. CO3: do Dart Manipulation.
0319	Economics (Quantitative Methods)	After completing this course students will be able to: CO1: calculate various types of averages like Mean, Median and Mode etc. CO2: calculate various measures of dispersion like standard deviation, mean deviation, etc. and their uses. CO3: analyze data and use it further. CO4: calculate the correlation between variables with the help of different methods. CO5: use the statistical methods in daily life. CO6: use the methods to calculate index numbers and explain the problems in constructing them. CO7: explain derivatives, matrices, set theory, maxima -minima and their application in Economics.
MUV0330	Music (Vocal)	On Completion of this course students would be able to: CO1: identify Musical terms like Importance of

		Notation system, Murchhana, Gamak, Meend, Bol-Alap, Andolan, Boltana and Badat. CO2: describe about the life history, contributions and achievements of different classical singers and musicians. CO3: describe the importance of Tanpura and Sahayak Nada for practical skills and theoretical knowledge. CO4: sing Drut Khayal with harmonium for practical skills. CO5: sing Aroh, Avroh and Pakar with tanpuraror practical skills. CO6: develop the ability to sing Drut khayal and Vilambit khayal which is the most important and popular form of Hindustani Vocal Music.
0334	Political Science (Indian Politics)	After the course, the students can: CO1: analyze the Federalism and its Working with reference to Centre-State Relations, CO2: recognise Demand for State Autonomy; Emerging Trends in Indian Federalism. CO3: explain the working of Election Commission, Electoral Process and its Defects and Voting Behavior, Electoral Reforms, Problem of Defection. CO4: analyze the Party System in India: National and Regional Political Parties, Interest and Pressure Groups. CO5: describe the role of Caste, Religion, Language, Regionalism in India, Politics of Reservation, Emerging Trends and Challenges before Indian Political System.
SEMESTER-V		
COMPULSORY SUBJECTS		

0401	English	After this course, the students will be able to: CO1: frame excellent pieces of prose and poetry in English and thus learn to appreciate the beauty and communicative power of the Language. CO2: explain about insightful native cultural experiences and situations that help develop human values. CO3: improve their linguistic competence and communicative skills. CO4: develop reading habits and acquire competency in self-learning. CO5: appreciate excellent pieces of prose and poetry in English. CO6: enhance the communication skills of the students enabling them to express themselves in an effective manner. CO7: describe the basics of English grammar. CO8: get an opportunity to delve deep into the world of literature. CO9: describe various literary genres including poetry, prose, drama, and essay in a better way.
0402/0403	Punjabi/History and Culture of Punjab	CO1: ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਦਾ ਕਾਵਿ ਦਾ ਅਧਿਐਨ ਕਰਦੇ ਹੋਏ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਦੇ ਅਰੰਭਿਕ ਕਵੀ ਜੋ ਕਿ ਸੂਫ਼ੀ ਕਾਵਿ ਨਾਲ ਸੰਬੰਧਿਤ ਹੋ ਕੇ ਵਿਚਾਰਾਂ ਨਾਲ ਇੱਕਾਮਿਕ ਕਰਵਾਇਆ ਗਿਆ ਹੈ।ਇਸੇ ਸਮੇਂ ਹੋਏ ਭਾਰਤ ਕਵੀਆ ਦੀ ਰਚਨਾ ਨਾਲ ਵੀ ਜਾਣ ਪਛਾਣ ਹੁੰਦੀ ਹੈ। ਗੁਰਮਤਿ ਕਾਵਿ ਦੀ ਬਾਣੀ ਦਾ ਅਧਿਐਨ ਵੀ ਇਸ ਵਿੱਚ ਕੀਤਾ ਜਾਦਾ ਹੈ। ਗੁਰਮਤਿ ਦੇ ਸਰੋਕਾਰਾਂ ਦਾ ਅਧਿਐਨ ਕਰਦੇ ਹੋਏ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬ ਅਤੇ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦੀ ਸਮੁੱਚੀ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ। CO2: ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਦਾ ਕਾਵਿਤਾ ਦਾ ਵਾ-ਮੰਡਲ ਧਾਰਮਿਕ ਹੈ। ਗੁਰਬਾਣੀ ਤੇ ਸੂਫੀ ਕਵਿਤਾ ਤਾਂ ਮਨੁੱਖ ਦੇ ਅਧਿਆਤਮਿਕ ਤੇ ਪਾਰਲੌਕਿਕ ਮਸਲਿਆਂ ਨੂੰ ਸਿੱਧਾ ਹੀ ਮੁਖਾਤਿਬ ਹਨ। ਦੁਨਿਆਈ ਪ੍ਰੇਮ ਤੇ ਸਮਾਜਿਕ ਮਨੁੱਖੀ ਸਰੋਕਾਰਾਂ ਦੀ ਬਾਤ ਪਾਉਣ ਵਾਲਾ ਕਿੱਸਾ -ਕਾਵਿ ਵੀ ਮਨੁੱਖ ਦੀ ਅਮਰ-ਆਤਮਾ ਵਿੱਚ ਸਮਾਏ ਮੁੱਲਾਂ ਜਾਂ ਆਦਰਸ਼ਾਂ ਨੂੰ ਹੀ ਸਵੀਕਾਰਦਾ ਹੈ। ਬੀਰ-ਕਾਵਿ ਵਿੱਚ ਪ੍ਰਮੁੱਖਤਾ ਭਾਵੇਂ ਦੁਨਿਆਵੀ ਬੁੱਧਾਂ ਦੇ ਬਿਆਨ ਨੂੰ ਹੈ, ਪਰ

		ਉਸ ਵਿੱਚ ਵੀ ਸੂਰਬੀਰਤਾ ਨੂੰ ਮਨੁੱਖ ਆਦਰਸ਼ਾਂ ਤੇ ਧਰਮ –ਆਧਾਰੀ ਮੁੱਲਾਂ ਦੀ ਤਾਬਿਆ ਵਿੱਚ ਹੀ ਰੱਖਿਆ ਗਿਆ ਹੈ। ਇਨ੍ਹਾਂ ਲਹਿਰਾਂ ਦੀ ਕਵਿਤਾ ਨੇ ਸਮਾਜ ਨੂੰ ਨਵੀਂ ਸਭਿਆਚਾਰਕ ਚੇਤਨਾ ਅਤੇ ਕ੍ਰਾਂਤੀਕਾਰੀ ਵਿਚਾਰਧਾਰਾ ਦੇ ਲੜ੍ਹ ਲਾਇਆ। ਇਨ੍ਹਾ ਵਿਚਾਰਾਂ ਤੋਂ ਜਾਣੂੰ ਹੋ ਕੇ ਵਿਦਿਆਰਥੀ ਆਪਣੇ ਜੀਵਨ ਨੂੰ ਸਹੀ ਰਾਹ ਉੱਤੇ ਤੋਰਨ ਦੇ ਯੋਗ ਹੋ ਜਾਂਦੇ ਹਨ। CO3: ਪੈਰਾ ਰਚਨਾ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨਵੇਂ ਸੰਕਲਪਾਂ ਨੂੰ ਸਿਰਜਣ ਦੀ ਭਾਵਨਾ ਪ੍ਰਬਲ ਹੁੰਦੀ ਹੈ। CO4: ਲਿਪੀ ਬਾਰੇ ਭਰਪੂਰ ਜਾਣਕਾਰੀ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੀਆਂ ਲਿਖਤਾ ਨੂੰ ਪ੍ਰਭਾਵੀ ਬਣਾਉਣ ਲਈ ਸਹਾਈ ਹੁੰਦੀ ਹੈ। CO5: ਵਿਆਕਰਨ ਦਾ ਅਧਿਐਨ ਕਰਦੇ ਹੋਏ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਸ ਦੇ ਸਿਧਾਂਤ ਅਤੇ ਵਿਹਾਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ। Punjabi course outcomes translated into English CO1: While studying the poetry of medieval Punjabi, the students are introduced to the ideas of early Punjabi poets who are associated with Sufi poetry. They are also introduced to the creation of Bharat Kavya which took place at the same time. The verses of Gurmat Kavi are also studied in it. While studying the concerns of Gurmat, the students get an overall knowledge of Punjab and Punjabi culture. CO2: The theme of medieval Punjabi poetry is religious. Gurbani and Sufi poetry directly address the spiritual and mundane issues of man. A story that talks about worldly love and social human concerns - the poet also accepts only the values or ideals embedded in the immortal soul of man. Although the predominance of heroic poetry is the statement of worldly sages, even in that, chivalry is kept in the context of human ideals and religious values. The poetry of these movements brought new cultural consciousness and revolutionary ideology to society.

		By knowing these ideas, students can lead their lives on the right path. CO3: Through paragraph creation, students develop a sense of creating new concepts. CO4: A rich knowledge of script helps students to make their writing more effective. CO5: While studying grammar, students get to know about its theory and practice. History and Culture of Punjab After completion of this course, the students will be able to: CO1: explain about early British administration; Board Of Administration 1549-1853; Reforms under John Lawrence. CO2: explain about Colonial policy of Agriculture, Trade and Industry. CO3: explain about the spread of Modern Education. CO4: describe about the impact of Socio- Religion Reform movements i.e. Namdharis, Singh Sabha, Arya samaj and Ahmediyas. CO5: explain about the Uprising of 1907; its causes and consequences. CO6: explain about Ghadar movement, its origin and Activities. CO7: explain about Jallianwala Bagh Massacre; its circumstances and consequences. CO8: explain about Gurudwara reforms Movement, its causes & consequences. CO9: explain about response to Non-Cooperation and Civil-Disobedience Movement. CO10: describe about partition of Punjab; its Circumstances and Impact. CO11: explain about important historical places on the outline map of Punjab.

ELECTIVE SUBJECTS		
0407/0405/ 0404	Punjabi/Hindi/English	CO1: ਮੱਧਕਾਲ ਤੇ ਮੁੱਢਲੇ ਬਸਤੀਵਾਲ ਕਾਲ ਦੀ ਪੰਜਾਬੀ ਕਵਿਤਾ' ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੇ 1700 ਈ. ਤੋਂ ਲੈ ਕੇ 1900 ਈਂ ਤੱਕ ਦੀ ਕਵਿਤਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਲ ਕੀਤੀ। CO2: ਵਾਰਿਸ ਸ਼ਾਹ ਦੀ ਕਵਿਤਾ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੇ ਜ਼ਗੀਰਦਾਰੀ ਸਮਾਜ ਵਿੱਚ ਔਰਤ ਦੀ ਦਸ਼ਾ, ਉਸ ਸਮੇਂ ਦੇ ਸਮਾਜ-ਪ੍ਰਬੰਧ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਲ ਕੀਤੀ। CO3: ਵਾਰਿਸ਼ਸ਼ਾਹ, ਹਾਸ਼ਮ, ਅਹਿਮਦਯਾਰ ਅਤੇ ਫਜ਼ਲ ਸ਼ਾਹ ਦੀ ਕਵਿਤਾ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਗਿਆਨ ਹੋਇਆ ਕਿ ਮੱਧਕਾਲ ਵਿੱਚ ਕੁੜੀਆਂ ਨੂੰ ਬੰਦਸ਼ਾਂ ਵਿੱਚ ਰੱਖਿਆ ਜਾਂਦਾ ਸੀ। CO4: ਸ਼ਾਹ ਮੁਹੰਮਦ ਦੀ ਰਚਨਾ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਦੀ ਮੌਤ ਤੋਂ ਬਾਅਦ ਸਿੱਖ ਰਾਜ ਵਿੱਚ ਹੋਈ ਕਤਲੋਗਾਰਤ ਅਤੇ ਸਿੱਖਾਂ ਤੇ ਅੰਗਰੇਜ਼ਾਂ ਵਿਚਕਾਰ ਹੋਈਆਂ ਲੜਈਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਲ ਹੋਈ। Punjabi Outcomes translated in English CO1: The book Maddkal Te Mudhale Bastiwal Kaal Di Punjabi Kavita provided students information about the poetry of 1700 AD to 1900AD. CO2: Through Waris Shah's poems, students learned about the plight of women in the feudal system and the social management of that time. CO3: The poems of Waris Shah, Ahmadyaar and Fazal Shah acquainted the students with the fact that the girls were not allowed to express themselves and kept in constraints during the medieval period. CO4: Through Shah Mohammad's works, the students got information about the massacre that took place in the Sikh state after the death of Maharaja Ranjit Singh and the battles fought between Sikhs and the Britishers. CO1: Through the play Jin Sach Plai Hoi, the students come to know that people were the victim of

		ignorance during the time of Guru Nanak Dev ji. They were superstitious. The rulers of that time used to commit atrocities upon them. There was no religious freedom. Through this play, students get to know about the personality of Guru Nanak Dev ji and his manner of logical talk. Whoever came to his company became bold and enlightened. He was freed from all superstitions. The students became aware of importance and relevance of Guru Nanak Dev ji's ideology in the present times. Hindi
	कुरुक्षेत्र **(खण्ड काव्य)**	r विद्यार्थी रामधारी सिंह दिनकर के जीवन, रचनाओं, काव्यगत विशेषताओं और दार्शनिक सिद्धांतों का परिचय प्राप्त करेंगे। r कुरुक्षेत्र एक पौराणिक खण्ड-काव्य है, जिसका मूल स्रोत महाभारत है। इस काव्य ग्रंथ में भीष्म पितामह युधिष्ठिर को कर्म और कर्त्तव्य का उपदेश देते हैं। इस ग्रंथ में युद्ध और उसकी समस्यायों पर गहन विचार किया गया है। युद्ध और शांति जैसे विषयों पर प्रकाश डालते हुए दिनकर जी शांति को श्रेष्ठ मानते हैं परन्तु जहां शांति अन्याय पर आधारित हो वहां युद्ध को श्रेष्ठ मानते हुए उसका समर्थन भी करते हैं। कुरुक्षेत्र के माध्यम से विद्यार्थी यह संदेश प्राप्त करेंगे कि अन्याय और अत्याचार पर आधारित शांति कभी भी स्थाई नहीं होती और न्याय और अधिकार के लिए लड़ा जाने वाला युद्ध कभी पाप कर्म नहीं होता। इस ग्रंथ में विद्यार्थियों को राजतंत्र की निंदा, लोकतंत्र की प्रशंसा और समाजवादी विचारधारा को एक साथ देख-समझ कसते हैं।
	समीक्षा सिद्धांत r काव्य की परिभाषा	r हिन्दी काव्य की शास्त्रीय पद्धति से विद्यार्थियों का परिचय कराया जाएगा। समीक्षा सिद्धांत के महत्व को प्रतिपादित किया जाएगा।

	r काव्य का वर्गीकरण *r* महाकाव्य एवं खण्डकाव्य *r* गीतिकाव्य *r* निबंध *r* जीवनी *r* संस्मरण *r* रेखाचित्र **अलंकार परिचय**	*r* हिन्दी काव्य की परिभाषा, काव्य के बहु-आयामी वर्गीकरण से विद्यार्थियों को परिचित कराया जाएगा। *r* हिन्दी महाकाव्य एवं खण्डकाव्य के लक्षण, परिभाषा, विशेषताओं और इन दोनों के साम्य-वैषम्य से विद्यार्थियों के ज्ञान में वृद्धि होगी और वे प्राचीन शास्त्रीय काव्य विधाओं से परिचय प्राप्त करेंगे। *r* हिन्दी गीतिकाव्य काव्य के लक्षण, परिभाषा, विशेषताओं से विद्यार्थियों के ज्ञान में वृद्धि होगी और वे गेय काव्य विधा से परिचय प्राप्त करेंगे। *r* हिन्दी निबंध, जीवनी, संस्मरण और रेखाचित्र जैसी आधुनिक गद्य विधाओं के लक्षण, परिभाषा, विशेषताओं से विद्यार्थियों के ज्ञान में वृद्धि होगी और वे इन विधाओं से परिचय प्राप्त करेंगे। *r* हिन्दी काव्य की शास्त्रीय पद्धति से विद्यार्थियों का परिचय कराया जाएगा। अलंकार सिद्धांत के महत्व को प्रतिपादित किया जाएगा। हिन्दी काव्य में अलंकारों की स्थिति एवं प्रयोग से विद्यार्थियों को परिचित कराया जाएगा। *r* हिन्दी काव्य में प्रयुक्त होने वाले अनुप्रास, यमक, श्लेष, उपमा, रूपक, उत्प्रेक्षा, प्रतीप, विरोधाभास, अतिश्योक्ति और वक्रोक्ति अलंकारों के लक्षण, परिभाषा, प्रयोग आदि से विद्यार्थियों के ज्ञान में वृद्धि होगी। English CO1: explain different genres of Literature by reading selected texts and poems. CO2: analyze various literary terms prescribed in the syllabus. CO3: develop a taste for specialized study of Indian literature written in the English language.

		CO4: explain the nature and importance of the English language in the present world. CO5: interpret Indian writing in English. CO6: analyze various dimensions of Indian English writing in poetry, especially its rustic philosophy. CO7: explain various literary terms like Orientalism, Postcolonialism, Gender, Race, Class, Caste, Nation etc. CO8: use language effectively by understanding the art of comprehension, note-making, one- word substitutes and changing the form of words.
0425	History (World History 1500-1870 A.D)	After completion of this course, the students will be able to: CO1: explain the history of the Modern world, World Around 1500; Feudalism, Features and its decline. CO2: describe about Politico-Religious Changes. CO3: describe about the rise of Parliamentary Government; The Glorious Revolution and its effects. CO4: explain about the American Revolution, Social, Political and economic causes, its Consequences. CO5: explain about the French Revolution 1789. CO6: state the Napoleon Bonaparte, his Reforms and his continental system. CO7: state about Congress of Vienna 1815, its motives, working, principal, provisions and significance. CO8: explain about the Industrial Revolution (1750-1880), spread to Europe, impact on Society. CO9: explain about the Eastern Question Greek War of Independence, Mehmat Ali and Egypt, Crimean War. CO10: explain about the different stages in the unification of Italy, role of Mazzini, Cavour and

		Garibaldi. CO11: explain about the important historical places of the world, unification of Germany and unification of Italy.
MAT-0443	Mathematics (Analysis-I)	After completing the course, students will be able to: CO1: describe Countable and Uncountable sets and problems related to this topic CO2: explain Riemann Integral and Integrality of Continuous, Monotonic functions and their Applications. CO3: explain Theorems like Fundamental theorem of Integral Calculus, Mean Value Theorem of Integral Calculus and their applications by solving various problems. CO4: use Beta Gamma Functions, Improper Integrals, Comparison Tests to solve Improper Integral. CO5: perform Abel's test, Dirichlet's test to solve Improper integral, Frullani Integral CO6: explain about Continuity and Derivability of an Integral of a Function as a Parameter.
MAT-0444	(Modern Algebra)	After completing the course, students will be able to: CO1: differentiate and solve theorems of Groups, Subgroups, Lagrange's Theorem, Normal subgroups Quotient Groups. CO2: describe Homeomorphisms, Isomorphism theorems and problems related to this concept. CO3: analyze Conjugate elements, Class Equations, Permutation Groups, and Alternating Groups etc. CO4: describe and solve problems of Rings, Subrings, Ideals and Integral Domain and problems and theorems based on these concepts. CO5: differentiate Quotient Rings, Prime and Maximal ideals, Homomorphism and Isomorphism based

MAT-0445	(Probability Theory)	on Rings. After completing the course, students will be able to: CO1: describe Probability, Conditional Probability by solving practical problems related to this concept. CO2: solve Random Variables and topics on this fields like probability density function, discrete and continuous random variables, Moment Generating Functions, Skewness and Kurtosis. CO3: differentiate Discrete Distributions-Bernoulli, Binomial, Negative Binomial, Geometric and Poisson Distributions and problems related to these concepts. CO4: apply Continuous Distributions-Uniform, Exponential, Beta, Gamma, Chi-Square and Normal distributions on various problems. CO5: describe and analyze Bivariate Random Variables and distribution along with the concepts of joint expectation, correlation coefficient, Bivariate Normal Distribution.
0442	Agriculture (Agrodiversity and Physiology)	After the completion of the course, the student will be able to: CO1: explain the history of agroforestry, agroecological zonification, socioeconomic aspects of agroforestry, agroforestry system for small holdings arid land agroforestry. CO2: describe about the establishment of orchard basic cultural practices, elemental role and needs of nutrients, propagation – principles and techniques, stock –scion relationship and their incompatibility, Fruit Physiology CO3: describe about the respiration- glycolysis, citric acid cycle, photorespiration, photosynthesis – light reaction, dark reaction, C4 –cycle, CAM plants growth hormones and their role in

		agriculture. CO4: describe about the enzymes and vitamins, vernalization and photoperiodism. CO5: explain about intellectual property right, informatics in agriculture, seed production and technology indigenous technical knowledge in agriculture introduction to crop biotechnology agrobiodiversity.
0487	Retail Marketing	The students who successfully complete this course will be able to: CO1: express the significance of retail branding. CO2: elucidate the concept of customer services, its significance, levels and quality standards. CO3: formulate the Gaps models for improving retail customer service quality. CO4: state the development and use of Information Technology in retailing. CO5: comprehend the various concepts of consumerism and ethics in retailing. CO6: familiarize themselves with practical experience of the work related to the retail sector.
	Computer Science	
CS09	(Project Management)	The students after completing this course, will be able to: CO1: explain the concepts of Project Management for planning to execution of projects, Able to understand different phases of SDLC. CO2: use the feasibility analysis in Project Management and network analysis tools for cost and time estimation. CO3: describe about Project Directions, Coordination and Control, Project Management Performance, Report Writing.
CS10	(Relational Database Management System)	The students after completing this course, will be able to: CO1: state the basic concepts and the applications of

PCS05	Practical C-Practical Based on paper CS10)	database systems. CO2: retrieve any type of information from a data base by formulating complex queries in SQL. CO3: describe the relational database design principles CO4: explain about Data Constraints, Grouping of data, Indexes, Sequences, Pl/SQL Concepts. The students after completing this course, will be able to: CO1: use the DDL commands, Primary key and Candidate keys. CO2: apply the various DML commands for retrieval of information CO3: perform all the Table join operations. CO4: develop simple applications using PL/SQL procedure, cursor, triggers.
0414	Physical Education	After the course, the students will be able to: CO1: follow the Rules and Skills of games. CO2: discern the player's Psychology. CO3: maintain proper Health and active life style. and Know about Hypo-kinetic Diseases, Postural deformities and Physical activities. CO4: Get knowledge about the tournament or competition. CO5: describe various theories of play and their significance of physical education and sports. CO6: Students get knowledge about massage, benifits of blood circulation and muscle.
0477	Fashion Designing (Fashion Designing and Merchandising) (theory)	After the course, the students can: CO1: explain the different aspects of fashion. CO2: explain the different aspects of merchandising. CO3: create Indian and Western designs.

0427	Economics (Economics of Development)	After completing this course students will be able to: CO1: distinguish the concept of 'Economic Development' and 'Economic Growth' and various theories of Economic Development and Growth. CO2: analyze the obstacles in economic development. CO3: explain the concept of capital formation and factors which can increase capital formation. CO4: describe the merits and demerits of capital intensive and labour intensive techniques of production. CO5: analyze various factors helpful in the economic development of a country. CO6: explain the concept of poverty and its measurement. CO7: describe the role of economic planning in the development process. CO8: review various stages of economic development. CO9: describe the role of economic policies in the development of a nation.
MUV0417	Music (Vocal)	On Completion of this course students would be able to: CO1: introduce to a specific Gayaki in their Khayal singing. CO2: learn vilambit khayal in Ragas other those Covered during the first year. CO3: introduce to the notions of vistar, Bol-Alapa and Behelawa; various techniques of improvisation in khayal. CO4: explain about Badhat in Vilambit khayals. CO5: introduce to lok Sangeet of Punjab and stage Performance techniques. CO6: explain the salient features of Time Theory of the Indian Music and focus on Ragas prescribed in

		syllabus. CO7: describe about the life history, contributions and achievements of different classical singers and musicians.
0426	Political Science (Comparative Political Systems-UK and USA)	After the course, the students can: CO1: examine diverse political systems: Liberal-democratic, Authoritarian, Socialist forms of political systems. CO2: explore the Constitution of UK: salient features; the executive – the Crown, Prime Minister and cabinet; the legislature: House of Lords, House Commons, speaker and Committees; Party System in UK. CO3: appraise the US Constitution: salient features; the executive: President; Legislature: Senate. House of Representative; Speaker; Judiciary: the composition and role of the Supreme Court; Bill of Rights; Party System. CO4: make a comparative analysis of the following institutions of UK and USA: Legislature, Executive and party systems
SEMESTER-VI		
COMPULSORY SUBJECTS		
0501	English	After the course, the students will be able to: CO1: have more grasp over the communicative language that will in turn create more job opportunities for them. CO2: have a better understanding of the texts after being familiarised with the analysis, interpretation, and understanding of the complex interrelationships between authors, texts, and specific social, political, and historical contexts. CO3: have enhanced literary, critical, and aesthetic

		awareness of diverse cultures and literary works and thus arrive at a broader world vision. CO4: have better linguistic competence after learning one-word substitution, changing the form of words, pair of words, and comprehension.
0502/0503	Punjabi/History and Culture of Punjab	CO1: ਹਰਨਾਮ ਦਾਸ ਸਹਿਰਾਵੀ ਨੇ ਇਸ ਨਾਵਲ ਵਿੱਚ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ ਦੇ ਜੀਵਨ ਦੀ ਇੱਕ ਲੜੀ ਨੂੰ ਪੇਸ਼ ਕਰਦਿਆਂ ਸਿੱਖ ਇਤਿਹਾਸ ਦੀ ਮਹੱਤਵਪੂਰਨ ਇਸਤਰੀ ਅਨੂਪ ਕੌਰ ਨੂੰ ਚਿਤਰਦਿਆਂ ਉਸਦੀ ਜਵਾਨੀ ਤੇ ਖੂਬਸੂਰਤੀ ਦੀਆਂ ਧੂੰਮਾਂ ਪੈਣ ਕਰਕੇ ਲਹੌਰ, ਸਰਹੰਦ ਤੇ ਮਲੇਰਕੋਟਲੇ ਤੇ ਨਵਾਬਾਂ ਅਤੇ ਉਨ੍ਹਾਂ ਦੇ ਛੋਕਰਿਆਂ ਸਮੇਤ ਰਾਜੇ ਭੀਮ ਚੰਦ ਦੁਆਰਾ ਉਸਨੂੰ ਪ੍ਰਾਪਤ ਕਰਨ ਲਈ ਤਰਲੋਮੱਛੀ ਹੋਣ ਦਾ ਜ਼ਿਕਰ ਹੈ। ਅਨੂਪ ਕੌਰ ਵੱਡੇ-ਵੱਡੇ ਰਿਸ਼ਤਿਆਂ ਨੂੰ ਟੋਕਰ ਮਾਰਕੇ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ ਨੂੰ ਪਸੰਦ ਕਰਦੀ ਹੈ। ਅਨੂਪ ਕੌਰ ਮਰਦਾਵੇਂ ਭੇਸ਼ ਵਿੱਚ ਸ਼ਸਤਰਧਾਰੀ ਤੇ ਘੋੜ ਸਵਾਰੀ ਸਿੱਘਨੀ ਦੇ ਰੂਪ ਵਿੱਚ ਵਿਚਰਦੀ ਹੈ। ਆਪਣੀ ਸਾਰੀ ਸ਼ਕਤੀ ਗਰੂ-ਪੰਥ ਦੇ ਲੜ ਲਗਾਉਂਦੀ ਹੋਈ ਸ਼ਹੀਦੀ ਪ੍ਰਾਪਤ ਕਰਦੀ ਹੈ।ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਸ ਨਾਵਲ ਦੇ ਅਧਿਐਨ ਰਾਹੀਂ ਸਿੱਖਾਂ ਦੁਆਰਾ ਮੁਗਲ ਹਕੂਮਤ ਖਿਲਾਫ ਜੰਗ ਲੜ੍ਹਨ ਅਤੇ ਬਹਾਦਰੀ ਨਾਲ ਮੌਤ ਨੂੰ ਗਲੇ ਲਗਾਉਣ ਦੇ ਇਸ ਕਾਂਡ ਦੀ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ ਆਪਣੇ ਵਿਰਸੇ ਨੂੰ ਜਾਣਨ ਲਈ ਇਹ ਨਾਵਲ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਬਹੁਤ ਮਹੱਤਵ ਰੱਖਦਾ ਹੈ। CO2: ਅਖਬਾਰਾਂ ਲਈ ਪ੍ਰੈਸ ਨੋਟ ਲਿਖਣ ਦੀ ਰੁੱਚੀ ਵਿਦਿਆਰਥੀਆ ਨੂੰ ਆਪਣੀਆਂ :ਸਾਹਿਤਕ ਰੁਚੀਆਂ ਨੂੰ ਲਿਖਤੀ ਰੂਪ ਦੇਣ ਲਈ ਸਹਾਈ ਹੁੰਦੀ ਹੈ। CO3: ਗੁਰਮੁੱਖੀ ਲਿਪੀ ਸਿਰਫ ਸਿੱਖਾਂ ਦੀਆਂ ਧਾਰਮਿਕ ਲਿਖਤਾਂ ਤੱਕ ਹੀ ਸੀਮਤ ਨਹੀਂ ਰਹੀ, ਸਗੋਂ ਇਹ ਇਸ ਤੋਂ ਅਘਾਂਹ ਸਾਤਰੇ ਪੰਜਾਬ ਤੇ ਪੰਜਾਬੀਆਂ ਦੀ ਲਿਪੀ ਬਣ ਗਈ ਹੈ ਇਸ ਸੰਬੰਧ ਵਿੱਚ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜਾਣਕਾਰੀ ਹੋਣੀ ਬੜੀ ਜ਼ਰੂਰੀ ਹੈ। ਛੋ4: ਵਿਆਕਰਨ ਦੀ ਜਾਣਕਾਰੀ ਹੋਣ ਤੇ ਹੀ ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਸਾਹਿਤ ਨੂੰ ਸਮਝਣ ਦੀ ਸਮਰੱਥਾ ਹੋਵੇਗੀ। ਉਹ ਸਾਹਿਤਕ ਕਿਰਤਾਂ ਨੂੰ ਸਹੀ ਰੂਪ ਵਿੱਚ ਸਮਝ ਸਕਣ ਦੇ ਯੋਗ ਹੋਣਗੇ। Punjabi course outcomes translated into English CO1: In this novel, Harnam Das Sehravi presented a series of the life of Guru Gobind Singh Ji, portraying Anup Kaur, an important woman of Sikh history, who, due

		to her youthfulness and beauty, was admired by Lahore, Sarhand, Malerkotle, Nawabs and their sons along with Raje Bhim. Anup Kaur likes Guru Gobind Singh ji because of big relationships. Anup Kaur disguises herself as a man in armour and riding a horse as Sighni. She gets martyrdom with all her strength fighting the Guru-Panth. Through the study of this novel, the students get information about this incident of the Sikhs fighting against the Mughal rule and bravely embracing death. To know their heritage, this novel is very important for students. CO2: Interest in writing press notes for newspapers helps students to express their literary interests in writing. CO3: The students get the knowledge that the Gurmukhi script is not only limited to the religious writings of Sikhs, but it has become the script of all Punjab and Punjabis. CO4: Students have the ability to understand literature only when they know the grammar. They will be able to understand literary works correctly. History and Culture of Punjab After completion of this course, the students will be able to: CO1: explain about migration and its socio-economic impact, Rehabilitation and Resettlement. CO2: explain about Demand for Punjabi Suba; Reorganization Act 1966. CO3: explain about the Green Revolution and its impact. CO4: explain about Development of education, political and economic Development post 1966.

		CO5: explain about issues of Boundary; water, Chandigarh. CO6: state about Socio-economic Development in the 1980's. CO7: explain about Operation Blue Star and its impact. CO8: explain about New social issues-gender discrimination, drug menace. CO9: explain about Development of Punjabi Literature; Bhai Veer singh, Shiv Kumar Batalvi, Amrita Pritam. CO10: explain about the important historical places of Punjab during after importance.
ELECTIVE SUBJECTS		
0508/0507/ 0504	Punjabi/Hindi/English	Punjabi CO1: ਮੱਧਕਾਲ ਤੇ ਮੁੱਢਲੇ ਬਸਰੀਵਾਦੀ ਕਾਲ ਦੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੇ ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕੀਤੀ। CO2: ਵਿਦਿਆਰਥੀਆਂ ਨੇ ਮੱਧਕਾਲ ਵਿੱਚ ਰਚੀ ਗਈ ਕਵਿਤਾ ਦੇ ਵੱਖਰੇ-ਵੱਖਰੇ ਰੂਪਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਲ ਕੀਤੀ। CO3: ਮੱਧਕਾਲ ਦੇ ਲੋਕ-ਨਾਇਕਾਂ ਬਾਰੇ ਵਿਦਿਆਰਥੀਆਂ ਨੇ ਜਾਣਕਾਰੀ ਹਾਸਲ ਕੀਤੀ, ਉਹਨਾਂ ਨੂੰ ਪਤਾ ਲੱਗਿਆ ਕਿ ਪੰਜਾਬ ਦੇ ਲੋਕ ਨਾਇਕ ਅਮੀਰਾਂ ਨੂੰ ਲੁੱਟਕੇ ਕਿਵੇਂ ਗਰੀਬਾਂ ਦੀ ਮਦਦ ਕਰਦੇ ਸਨ। CO4: ਨਿਬੰਧ ਪ੍ਰਕਾਸ਼ ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆ ਨੂੰ ਚੰਗਾ ਇਨਸਾਨ ਬਣਨ ਲਈ ਜੋ ਗੁਣ ਚਾਹੀਦੇ ਹਨ, ਉਹਨਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਲ ਹੋਈ। ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜੀਵਨ ਵਿੱਚ ਕਿਰਤ ਦਾ ਕੀ ਮਹੱਤਵ ਹੈ, ਇਨਸਾਨ ਨੂੰ ਸਾਰਿਆਂ ਦਾ ਭਲਾ ਸੋਚਣਾ ਚਾਹੀਦਾ ਹੈ ਅਤੇ ਵਿੱਦਿਆ ਦੀ ਮਹੱਤਤਾ ਆਦਿ ਵੱਖੋ-ਵੱਖਰੇ ਵਿਸ਼ਿਆ ਬਾਰੇ ਜਾਨਣ ਦਾ ਮੌਕਾ ਮਿਲਿਆ। Punjabi course outcomes translated into English CO1: The study of book Maddkal Te Mudhale Bastiwal Kaal Di Punjabi Kavita enables students to learn about the poetry of medieval period. CO2: Students obtained information about the different

		forms of poetry composed in the medieval period. CO3: Students get information about the folk-heroes of the medieval period and how they used to rob the rich and help the poor. CO1: Through the book Nibandh Prakash, the students got information about the qualities required to be a good and righteous human being. They got an opportunity to learn about various topics like the importance of work and education in life and ability to think for the welfare of all mankind. Hindi
	निबंध–लेखन **गद्य–फुलवारी** *r* आँसुओं की होली *r* अकेली *r* चीफ की दावत *r* सुभान खाँ *r* भाभी *r* सदाचार का ताबीज *r* महात्मा गांधी	*r* विद्यार्थी निबंध–लेखन से अपने लेखन–कौशल को निखार सकेंगे और भविष्य में इस कौशल को वे अपने व्यावसायिक जीवन में इस्तेमाल कर पाएंगे। किसी भी विषय पर निबंध लिखना सरल नहीं होता और इसके लिए निरंतर अत्यास की आवश्यक्ता होती है। विद्यार्थी अपने विचारों को निबंध के माध्यम से व्यक्त कर पाने में सक्षम हो पाएंगे। *r* विद्यार्थी गद्य–साहित्य के माध्यम से समाज और जीवन की विविध समस्याओं से अवगत होंगे और उन समस्याओं के समाधान के लिए प्रेरित होंगे। उनमें समस्या–समाधान की क्षमता विकसित होगी। *r* आंसुओं की होली कहानी के माध्यम से विद्यार्थी यह जानने में सक्षम होंगे कि कमजोर संकल्प वाले व्यक्ति जीवन के उच्च लक्ष्यों को प्राप्त करने में सफल नहीं हो सकते। जीवन में अपने लक्ष्यों की पूर्ति के लिए सभी उतरदायित्व निभाने के साथ यह भी जरूरी है कि व्यक्ति कर्मशील हो और उसका संकल्प दृढ़ हो। *r* अकेली कहानी के माध्यम से विद्यार्थी यह जानने में सक्षम होंगे कि अकेलापन एक अभिशाप की तरह होता है, जो मानसिक दु:ख की ओर ले जाता है। अत: हमें स्वयं को अकेलेपन से बचाने के लिए सामाजिक होना पड़ेगा और दूसरों के सुख–दु:ख में शामिल

	r मैं धोबी हूँ r गप-शप r यमुनोत्री की यात्रा	होकर खुद को व्यस्त रखना होगा। r चीफ की दावत कहानी के माध्यम से विद्यार्थी यह जानने में सक्षम होंगे कि आज के मध्यवर्गीय समाज में कैसे मानसिक्ता और संबन्धों में बदलाव आ रहा है। चमक-दमक और दिखावे की प्रवृति के कारण रिश्तों को घर के फालतू सामान की तरह इधर-उधर छुपाया जाने लगा है। कहानी के अन्त तक आते-आते विद्यार्थी यह समध जाते हैं कि कैसे मध्यवर्गीय लोगों का खून सफेद हो जाता है और वे केवल स्वार्थ में बंधकर घर के बड़े-बुजुर्गों को भी फालतू सामान समझ लेते हैं, पर यही रिश्ते जाते जाते भी उनको लाभ ही दे जाते हैं। r सुभान खाँ रेखाचित्र के माध्यम से विद्यार्थी साम्प्रदायिक सद्भाव की जीती-जागती मूरत सुभान दादा से परिचित होकर यह जानने में सक्षम होंगे कि समाज में जातीयता और साम्प्रायिक्ता से बढ़कर इंसानियत और सद्भाव होता है। r भाभी रेखाचित्र के माध्यम से विद्यार्थी समाज में विधवा की स्थिति और नियति के विषय में जानने में सक्षम होंगे। भारतीय समाज में युगों-युगों से विधवा को दबाकर और चारदीवारी में कैद रखा जाता है और उसे लांछित किया जाता है। जरूरत इस बात की है कि उसके साथ भी सामान्य मनुष्य की तरह व्यवहार किया जाए। r सदाचार का ताबीज़ पाठ में देश में व्याप्त भ्रष्टाचार तथा उसके उन्मूलन के खोखले रूपों पर कटाक्ष किया गया है। विद्यार्थी यह जानने में सक्षम होंगे कि आधुनिक समाज में व्याप्त भ्रष्टाचार कितना विकराल हो चुका है और नेता देश में जनता की सेवा और प्रगति से बढ़कर निजी स्वार्थ को तरजीहत देते हैं। r महात्मा गांधी संस्मरण के माध्यम से विद्यार्थी महात्मा गांधी को लेखक की दृष्टि से जानने में सक्षम होंगे। भारत की आज़ादी में गांधी जी के योगदान, उनके देश के प्रति सेवा भाव और कर्त्तव्य-निष्ठा से विद्यार्थी परिचित होंगे। r मैं धोबी हूँ निबंध में हल्के-फुल्के ढंग से एक धोबी की कर्त्तव्य-भावना का चित्रांकन करते हुए उसे पतित पावन बताया गया है।

		विद्यार्थी लेखक के लेखन-कौशल को जानने में सक्षम होंगे और यह जान पाएंगे कि व्यक्ति के गुण-अवगुण उसको समाज में सम्मान या अपमान दिलाते हैं। r गप-शप निबंध के माध्यम से विद्यार्थी यह जानने में सक्षम होंगे कि बेकार समझे जाने वाले विषय या बातों से भी कई प्रकार की नयी चीजें सीखी-समझी जा सकती हैं। बेकार समझी जाने वाली बातों से कई बार किसी के व्यक्तित्व और चरित्र की जानकारी प्राप्त की जा सकती है। r जमुनोत्री की यात्रा यात्रा-वृतांत के माध्यम से विद्यार्थी यह जानने में सक्षम होंगे कि पुरातन समयों में धार्मिक यात्राओं का क्या महत्व होता था और किन प्रकार की असुविधाओं से यात्री को दो-चार होना पड़ता था।
	हिन्दी साहित्य का इतिहास r आधुनिक गद्य-साहित्य	r विद्यार्थी हिन्दी साहित्य के इतिहास का परिचय प्राप्त करेंगे। विद्यार्थी हिन्दी साहित्य के सृजन की पृष्ठभूमि और साहित्यिक प्रवृतियों को समझने में सक्षम होंगे। विद्यार्थी साहित्य के माध्यम से जीवन-मूल्यों और जीवन-दर्शन को समझने का प्रयास करेंगे। r हिन्दी साहित्य के आधुनिक काल के अन्तर्गत गद्य साहित्य (कहानी, उपन्यास, नाटक, निबंध, आत्मकथा, जीवनी आदि) की विशिष्टताओं का परिचय प्राप्त करके और इस युग के प्रतिनिधि लेखकों की लेखन शैलियों से परिचित होकर विद्यार्थी आधुनिक काल के साहित्य के विषय में समुचित ज्ञान प्राप्त करेंगे और इस काल-खण्ड के साहित्य की निर्माण प्रक्रिया को समझने में सक्षम होंगे।
	छंद-परिचय	r हिन्दी काव्य की शास्त्रीय पद्धति से विद्यार्थियों का परिचय कराया जाएगा। छंद विचार के महत्व को प्रतिपादित किया जाएगा। हिन्दी काव्य में छंदों की स्थिति एवं प्रयोग से विद्यार्थियों को परिचित कराया जाएगा। r हिन्दी काव्य में प्रयुक्त होने वाले दोहा, रोला, सोरठा, चौपाई, कुण्डलिया, हरिगीतिका, सवैया, इन्द्रवज्रा, उपेन्द्रवज्रा और द्रुतविलम्बित के लक्षण, परिभाषा, प्रयोग आदि से विद्यार्थियों के

		ज्ञान में वृद्धि होगी।
	हिन्दी भाषा और उसकी लिपि r निमंत्रण पत्र r विज्ञप्ति/विज्ञापन का प्रारूप r देवनागरी लिपि	r शुद्ध भाषा लिखना एक कला है। अत: यह आवश्यक है कि प्रत्येक वाक्य को शुद्ध रूप में पढ़ा/लिखा जाए। आज का युग संचार-क्रांति का युग है। विभिन्न माध्यमों के लिए लेखन कार्य करने से विद्यार्थी आत्मनिर्भर हो सकेंगे। निमंत्रण-पत्र-लेखन, विज्ञप्ति/विज्ञापन-लेखन से विद्यार्थी अपने लेखन-कौशल को निखार सकेंगे और भविष्य में इस कौशल को वे अपने व्यावसायिक जीवन में इस्तेमाल कर पाएंगे। r हिन्दी भाषा को लिखने के लिए देवनागरी लिपि का प्रयोग होता है अत: देवनागरी लिपि के उद्भव और विकास-क्रम के साथ-साथ देवनागरी लिपि की विशेषताओं, सीमाओं और सुधार के उपायों पर चर्चा-परिचर्चा से विद्यार्थी देवनागरी लिपि के विषय में जान सकेंगे।
		English CO1: able to analyze the elements of social problems through Indian literature in English. CO2: achieve a higher level of proficiency in English in comparison to that achieved by students pursuing compulsory courses in English. CO3: describe the various types of literary works and literary concepts. CO4: pursue the subject at post-graduate level Communication Skills in English. CO5: improve their Listening, Speaking, Reading and Writing skills. CO6: build up their confidence for participation in placement drives. CO7: show better performance in International English language testing examinations like TOEFL, and IELTS. CO8: write a report and essay. CO9: explain various literary terms related to novels: Bildungsroman, Picaresque Novel, Gothic,

		Historical, Realistic, Psychoanalytical, Political, and Regional novel.
0522	History (History of India 1871-1991 A.D)	After completion of this course, the students will be able to: CO1: explain the students to the history of the Modern world in the period of European Domination, New imperialism 1871-1914 Partition of Africa. CO2: describe about Congress of Berlin 1878, its circumstances, Provisions and significance. CO3: explain about the Triple Alliance of 1882 and Triple Entente under Diplomatic Development in Europe. CO4: explain about world war 1st and 2nd. CO5: describe about the Paris peace conference. CO6: describe about the Russian Revolution. CO7: state about the Nationalism and Communism in China, Chinese Revolutions of 1911 and 1994. CO8: explain about Modernization of Japan, Meji restoration. CO9: explain about the Great Depression of 1929, spread to Germany, France and Britain, it's impact, Roosevelt's New Deal. CO10: explain about the Fascism and Nazism. CO11: describe about the important historical places of world war 1st and 2nd in the outline map of world.
MAT-541	Mathematics (Analysis-II)	After finishing this course, students will be able to: CO1: perform double Integration over a Rectangle, bounded area, unbounded regions. Double integrals as Volumes, change to Polar Coordinates. CO2: analyse Triple integral in Rectangular

		Coordinates, Repeated integrals in 3-dimension. Change of Variables in a Triple Integral to Cylindrical and Spherical coordinates. CO3: do Integration of line, surface and find volume by using Gauss, Green and Stoke's theorems. CO4: apply Sequence and series of Functions and Various criteria to solve problems related to check the convergence and divergence of Series of functions. Taylor's and Able's theorem for Power Series. CO5: perform Fourier expansion of Monotonic, Even, Odd functions, Fourier series in the interval [a,b], $[0,2\pi]$.
MAT-0542	(Linear Algebra)	After finishing this course, students will be able to: CO1: describe Vector space, subspace, algebra of Subspace, Linear dependence and independence and theorems related to these concepts. CO2: analyze Basis and Dimension of a Vector space as well as subspace, Direct Sum and Complements. CO3: apply Linear Transformations, Rank Nullity theorem, Use of matrices with this topic, Change of Basis. CO4: solve Characteristic Roots and Characteristic Vectors, Cayley-Hamilton Theorem Diagonalizable Operators and Matrices, Minimal polynomial of a linear operator.
MAT-0543	(Numerical Analysis)	This course will help students to: CO1: apply Bisection, Secant, Regula-Falsi and Newtons's Method to solve various types of equations and also to find roots of polynomial. CO2: solve Interpolation, Lagrange and Hermite method, Divided Difference method. CO3: solve Numerical Differentiation, Numerical quadrature with the help of Newton-Cote's, Gauss Quadrature and Chebychev's formula.

		CO4: apply methods to solve Linear Equations and ordinary differential Equations.
0515	Agriculture (Insects, Pests and Diseases of Crops)	After the completion of course, the students will be able to: CO1: protect plants and crops from diseases and describe about biological control, chemical control, systemic fungicides, Weedicides, Compatibility of various fungicides and Weedicides and Rodenticides CO2: explain about the diseases of crop plants such as wheat, rice, maize, citrus, grapes, cotton, vegetables, mustard and groundnut. CO3: explain about general account of Insects and pests, classification of insects, parts of insect body, and control measures of insect pests and diseases of crop. CO4: explain about the insect and nematode diseases of cereal (wheat, maize, rice) crops, oil (sunflower, groundnut, mustard) crops, fruit (mango, guava, citrus) crops and Vegetable crops.
0594	Retail Marketing	The students who successfully complete this course will be able to: CO1: elucidate the significance and process of customer relationship management. CO2: explain the tools and techniques of Loyalty Programmes. CO3: state the development of modern international retail activity. CO4: assess international markets based on their political, economic, social and competitive environments. CO5: design an international marketing strategy for a retailer. CO6: develop an understanding regarding issues in rural markets like marketing environment,

		consumer behavior, distribution channels, marketing strategies etc.
CS11	Computer Science (E-Commerce)	Students after completing this course, will be able to: CO1: describe the basic business management concepts. CO2: state about e-commerce, both the technical and business aspects. CO3: explain the principles and practices of e-commerce and its related technologies. CO4: state the payment details and security issues.
CS12	(Web Programming)	Students after completing this course, will be able to: CO1: describe the fundamental concepts of Internet, Internet technologies. CO2: differentiate the features of different browsers. CO3: develop colorful web pages using tags, bullets and alignment on texts. CO4: explain the table handling tags, Frames and Frameset for designing web pages. CO5: explain java script – client-side objects, Event handling, built in objects. CO6: do programming with PHP.
PCS06	(Practical based on Paper CS12)	Students after completing this course, will be able to: CO1: develop web pages using HTML, DHTML and Cascading Styles sheets. CO2: develop a dynamic web pages using JavaScript (client side programming). CO3: do programming in PHP.
0535	Physical Education	After the course, the students will be able to: CO1: follow rules and regulations of different games and sports. CO2: explain about the Fitness tests. CO3: explain about the various games officiating and skills. CO4: know about career aspects in physical education.

		CO5: explain about the students general physiology concept and effects of physical exercise and sports training. CO6: explain about nervous, excretory, endocrine system.
0576	Fashion Designing (Apparel Industry and Entrepreneurship Development) (theory) (Fashion Designing and Advance Construction Techniques-Practical) (Draping and Advance Construction Techniques-Practical)	After the course, the students can: CO1: get acquainted with Entrepreneurship. CO2: do Quality control, labeling and packaging. CO3: explain about Main centers of trade. CO4: use Special purpose machines in Apparel marketing. CO1: follow Drafting techniques. CO2: use the techniques of Garment Construction. CO3: explain the concept of fitting and pattern alteration. CO4: design garments. CO1: use Drafting and Construction techniques. CO2: follow drafting Techniques. CO3: do Computer aided designing. CO4: explain about Fashion illustration.
0517	Economics (Indian Economy)	After completing this course, students will be able to: CO1: explain about the economic development of India since independence. CO2: describe the role of the population in economic development. CO3: state the reasons for major economic problems of India like poverty, unemployment, population etc. and various steps taken by Govt.to overcome these problems. CO4: compare the contribution of different sectors of the

		Indian economy in the GDP. CO5: review the role of agriculture, industry and service sector in development. CO6: describe the various land reforms and economic reforms done by the Govt. of India. CO7: explain the importance of planning undertaken by the government of India, and also various achievements and failures of planning in India. CO8: compare the changes in foreign trade of India since independence.
MUV0529	Music (Vocal)	On Completion of this course students would be able to: CO1: learn genres like Tarana in the prescribed ragas. CO2: describe the value of Indian Classical Music in ancient period (4^{th} to 13^{th} centuries). CO3: describe the different varieties of the taans while extending the Raga. CO4: describe the different singing styles like Dhamar, Bhajan, Shabad, Thumri. CO5: describe about the contributions made to music by famous Artists of classical music from their biographies. CO6: describe about the scope of music as a subject in education system, the contribution of Akashvani and Doordarshan in musical activities and contribution of electrical instruments to music. CO7: tune different instruments such as stringed, rhythmic and electrical.
0532	Political Science (International Politics-Theory and Practice)	After the course, the students can: CO1: critically analyze the theories of international politics. CO2: evaluate the concept of power and its changing

		nature. Explore the instruments for the promotion of national interest. CO3: explain about various dimensions and emerging issues of international politics.

BACHELOR OF COMPUTER APPLICATION (B.C.A.)

PROGRAMME OUTCOMES (POs)	At the end of the three-year B.C.A. programme the students will be able to: PO1: describe, analyze and develop computer programs in the areas related to algorithm, web design and networking for efficient design of computer-based system. PO2: work in the IT sector as system engineer, software tester, junior programmer, web developer, system administrator, software developer etc. PO3: apply standard software engineering practices and strategies in software project development using open-source programming environment to deliver a quality of product for business success. PO4: state the nature, scope and application of computer and computer languages. PO5: develop interdisciplinary approach among the students.

PROGRAM SPECIFIC OUTCOMES (PSOs)	At the end of the three-year BCA programme the students will be able to: PSO1: perform the roles pertaining to computer applications and IT industry. PSO2: describe each and everything about the computers starting from the basics till the end of the programme. PSO3: develop programming skills, networking skills, learn applications, packages,

	programming languages and modern techniques of IT. PSO4: use programming language such as Java, C++, HTML, SQL, etc. PSO5: use and apply various computer applications and latest development in IT. PSO6: show skills in IT like networking, computer graphics, web development, trouble shooting, and hardware and software skills. PSO7: do jobs like that of a software programmer, system and network administrator, web designer faculty for computer science and computer applications PSO8: equip themselves to potentially rich and employable field of computer applications. PSO9: take up self-employment in Indian and global software market. PSO10: meet the requirements of the Industrial standards.

COURSE OUTCOMES

SEMESTER – I		
COURSE CODE	COURSE NAME	COURSE OUTCOMES
BCA-16-101	English (Compulsory)-A	After completion of this course, student will be able to: CO1: comprehend the poems critically CO2: read the texts analytically like their themes, characters and situations. CO3: improve and develop his/her and writing skills through paragraph writing. CO4: use the Idioms and phrases in their sentences. CO5: transform one type of sentence into other type of sentences through transformation of sentences.
BCA-16-102	Fundamental of	After the completion of this course the student will be

	Mathematical Statistics	able to: CO1: describe the basic Statistics, its types, limitations, collection methods, organization, graphs, and frequency distribution. CO2: use measures of Central Tendency-Arithmetic Mean, Geometric Mean, Harmonic Mean CO3: calculate Median, Mode and Measures of Dispersion (Range, Mean Deviation, S.D. for continuous and discrete series and their Coefficients) CO4: perform Correlation Analysis, calculate Correlations like Karl Pearson and Scatter Diagrams Graphic Method etc. and recall the difference among these methods. CO5: state the Regression Analysis, its Types, Objectives, Regression Lines, Properties, and Limitations.
BCA-16-103	Computer Fundamentals and Computing Software	At the end of the course the students will be able to: CO1: identify computer hardware and peripheral devices. CO2: use the various software applications. CO3: perform file management. CO4:create basic documents, worksheets, presentations with their properties. CO5: use email and recognize email netiquette.
BCA-16-104	Problem Solving Through C	After completing the course the students will be able to CO1: describe the basic terminology used in computer programming CO2: recall the different data types in a computer program. CO3: explain the structure of c program and design programs involving decision structures, loops and functions. CO4: describe the user defined functions, categories of function and recursion CO5: state about arrays, arrays types, string handling

		function. CO6: describe the dynamics of memory by the use of pointers. CO7: explain the concept pointers, fire handling, input output operations.
BCA-16-105	Lab Based on BCA-16-103	At the end of the course the students will be able to CO1: use computers at user level, including operative systems and programming environments. CO2: use computer equipment, including both hardware and software CO3: solve the problems properly, achieving an implementation that is correct, effective and efficient. CO4: identify information needs to solve problems, recovering information and applying it to the resolution.
BCA-16-106	Lab Based on BCA-16-104	After completing the course, the students will be able to: CO1: read, understand and trace the execution of programs written in C language. CO2: write the C codes for a given algorithms. CO3: implement programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor. CO4: write programs that perform operations using derived data types.

SEMESTER – II		
COURSE CODE	COURSE NAME	COURSE OUTCOMES
BCA-16-201	English (Compulsory)-B	After completion of this Semester student will be able to: CO1: comprehend the poems critically. CO2: read the texts analytically like their themes, characters and situations CO3: improve and develop his/her and writing skills through paragraph writing.

		CO4: use the Idioms and phrases in their sentences. CO5: transform one type of sentence into other type of sentences through transformation of sentences.
BCA-16-202	Computer Organization	After the completion of the course the students will be able to: CO1: explain about digital computer and their fundamental architectures. CO2: define the function units of computer architecture CO3: explain the Input and Output peripheral devices and their communication with the rest of the computer components. CO4: find the various instruction type and addressing modes used for programming CO5: describe the functionalities and organization of processor units and their types. CO6: explain the basic programming unit and execution of instruction CO7: use Computer arithmetic algorithm in signed magnitude data with hardware implementation and hardware algorithm. CO8: explain about the interrupts and direct memory access. CO9: state about memory organization and its hierarchy. CO10: use RAM, ROM, COST, SIZE, CACHE and virtual memory and comprehend the need for improving cache perform. CO11: describe about different secondary storage devices.
BCA-16-203	Fundamentals of Web Programming	After completing the course, the students can: CO1: analyze a web page and identify its elements and attributes. CO2: create web pages using HTML and Cascading Styles sheets. CO3: build dynamic web pages using JavaScript (client-side programming). CO4: create XML documents used in Web Publishing. CO5: create XML Schema for data transfer in

		distributed environment.
BCA-16-205	Lab Based on BCA-16-203	After completing the course, the students can: CO1: develop web pages using HTML, DHTML and Cascading Styles sheets CO2: develop web pages using HTML, DHTML and Cascading Styles sheets. CO3: develop a dynamic web page using JavaScript (client-side programming).
BCA-16-206	Lab Based on BCA-16-204	After completing the course, the students can: CO1: develop solutions for a range of problems using objects and classes. CO2: write programs to demonstrate the implementation of constructors, destructors and operator overloading. CO3: apply fundamental algorithmic problems including type casting, inheritance, and polymorphism. CO4: explain about generic programming, templates, file handling.
393	Environmental and Road Safety Education	After the course, the students will be able to: CO1: describe about plant and animal distribution patterns in relation to biotic and biotic factors. CO2: explain about essential characteristics underlying Natural ecosystems. CO3: describe about the model population and community-level dynamics. CO4: interpret and present ecological results. CO5: identify Global environmental problems. CO6: explain about Social issues and Environment issue. CO7: describe the significance of road safety. CO8: state about Police-Public relationship, Traffic rule and Traffic signs. CO9: describe about Protective provisions against domestic and sexual violence. CO10: explain about the Protective laws for women.

		CO11: explain about the problem of drugs abuse. CO12: describe about the drugs and its effects. CO13: describe about the prevention and management of drug abuse.

SEMESTER – III		
COURSE CODE	COURSE NAME	COURSE OUTCOMES
BCA-16-301/BCA-16-302	Punjabi A/History and Culture of Punjab A	Punjabi (sur-sMvydnw) CO1: ਵਿਦਿਆਰਥੀ ਆਧੁਨਿਕ ਕਵਿਤਾ ਤੋਂ ਜਾਣੂੰ ਹੁੰਦੇ ਹਨ। CO2: ਭਾਈ ਵੀਰ ਸਿੰਘ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਪੜ੍ਹਾਕੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪ੍ਰਕਿਰਤੀ ਪਿਆਰ, ਰੱਬੀ ਪਿਆਰ ਤੇ ਜ਼ਿੰਦਗੀ ਵਿੱਚ ਖੁਸ਼ ਰਹਿਣ ਦੀ ਪ੍ਰੇਰਨਾ ਮਿਲਦੀ ਹੈ। CO3: ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੂਰਨ ਸਿੰਘ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ। CO4: ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਧਨੀ ਰਾਮ ਚਾਤ੍ਰਿਕ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਦੇਸ਼ ਪਿਆਰ ਦੀ ਭਾਵਨਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ। CO5: ਮੋਹਨ ਸਿੰਘ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਮਾਂ ਦੀ ਮਹੱਤਤਾ, ਦੇਸ਼ ਪਿਆਰ ਤੇ ਜਿੰਦਗੀ ਵਿੱਚ ਸ਼ੰਘਰਸ਼ ਕਰਨ ਦੀ ਭਾਵਨਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ । CO6: ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਦੇਸ਼ ਦੀ ਵੰਡ ਦੇ ਦੁਖਾਂਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਲ ਹੁੰਦੀ ਹੈ। CO7: ਬਾਵਾ ਬਲਵੰਤ ਸਿੰਘ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਜ਼ਿੰਦਗੀ ਵਿੱਚ ਹਮੇਸ਼ਾਂ ਆਸ਼ਾਬੰਦ ਰਹਿਣ ਦੀ ਭਾਵਨਾ ਤੇ ਜੀਵਨ ਦੇ ਮਨੋਰਥ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ। (ਪੰਜਾਬੀ ਕਥਾ ਕਿਤਾਬ) CO1: ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ ਦੀ ਕਹਾਣੀ ‘ਏਹੁ ਨਿਦੋਸਾ ਮਾਰੀਐ’ ਰਾਹੀਂ ਪੰਜਾਬੀ ਕਿਸਾਨਾਂ ਦੀ ਆਰਥਕ ਦਸ਼ਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ। CO2: ਸੁਜਾਨ ਸਿੰਘ ਦੀ ਕਹਾਣੀ ‘ਸਵਰਗ ਦੀ ਝਲਕ’ ਰਾਹੀਂ ਗਰੀਬ ਵਿਰਤੀਆਂ ਦੇ ਜੀਵਨ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਲ ਹੁੰਦੀ ਹੈ। CO3: ਸੰਤੋਖ ਸਿੰਘ ਧੀਰ ਦੀ ਕਹਾਣੀ ‘ਮਾਮਲਾ’ ਰਾਹੀਂ

		ਬੇਜਮੀਨੇ ਕਿਰਤੀਆਂ ਦੀ ਆਰਥਿਕ ਮੰਦਹਾਲੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੁੰਦੀ ਹੈ। CO4: ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਕੁਲਵੰਤ ਸਿੰਘ ਵਿਰਕ ਦੀ ਕਹਾਣੀ 'ਉਜਾੜ' ਰਾਹੀਂ ਪੰਜਾਬੀ ਲੋਕਾਂ ਦੇ ਜੀਵਨ ਵਿੱਚ ਆ ਰਹੀ ਤਬਦੀਲੀ ਬਾਰੇ ਗਿਆਨ ਪ੍ਰਾਪਤ ਹੋਇਆ। CO5: ਨਵਤੇਜ ਸਿਘ ਦੀ ਕਹਾਣੀ 'ਬਸ਼ੀਰਾ' ਰਾਹੀਂ ਲੋਕਾਂ ਦਾ ਗਰੀਬੀ ਕਾਰਨ ਅਨਪੜ੍ਹ ਰਹਿ ਜਾਣ ਬਾਰੇ ਜਾਣਕਾਰੀ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਹਾਸਲ ਹੋਈ। CO6: ਦਲੀਪ ਕੌਰ ਟਿਵਾਣਾ ਦੀ ਕਹਾਣੀ 'ਰੱਬ ਤੇ ਰੁੱਤਾਂ' ਬਾਰੇ ਲੋਕਾਂ ਦਾ ਕੁਦਰਤੀ ਸੋਮਿਆਂ ਤੋਂ ਦੂਰ ਰਹਿਣ ਬਾਰੇ ਜਾਣਕਾਰੀ। lyK ilKx Sbd qy vwk Su`DI iksy vI ivSy au`qy lyK ilKx, su`D pMjwbI ilKx leI ivAkwrxk inXmW bwry ivsQwr sihq jwxkwrI[Punjabi course outcomes translated into English Sur-Savedana Students become familiar with modern poetry. CO1: By reading the poetry of Bhai Vir Singh, students get inspiration to love God and be happy in life. CO2: The poems of Pooran Singh provide the information about culture of Punjab to students. CO3: The poetry of Dhani Ram Chatrik gives birth to the feeling of patriotism among the students. CO4: Mohan Singh's poems highlight the importance of mother, love for country and prepare the students for the struggle of life. CO5: Amrita Pritam's poems provide information about the tragedy of the partition of country. CO6: Through the poems of Bawa Balwant Singh, one learns the lesson of being optimistic in life and understands the purpose of life. Punjabi Katha Kitab Students get the basic information about Punjabi Kahani

		CO1: Sant Singh Sekhon's story Eh Nidosha Mariye makes the students aware of the economic condition of farmers of Punjab. CO2: Sujan Singh's story Sawarg Di Jhalak provides information about the life of poor people. CO3: Santokh Singh's story Mamla provides information about the economic plight of landless workers. CO4: Students got information about the changes which are taking place in the lives of Punjabi people through Kulwant Singh Virk story Ujaarh. CO5: Navtej Singh's story Bashira provides the information about the people who fail to become literate because of poverty. CO6: Dalip Kaur Tiwana's story Rab Te Rutan makes the people aware of the consequences of ignoring the natural resources. Essay Writing and Correction in sentences and words Students learn how to write an essay on any topic, how to write correct in Punjabi and rules of grammar and its application. History and Culture of Punjab: CO1: describe about the first civilization of India i.e. Indus Valley Civilization. CO2: describe about Vedic age, Growth of Jainism and Buddhism in 6th century B.C. in Punjab. CO3: state about the society and culture under Maurayas and Guptas. CO4: explain about Cultural Reorientation and development of Sufism. CO5: describe about the youngest religion of the world i.e. Sikhism, from Shri Guru Nanak Dev Ji to all ten Gurus.

		CO6: state about martyrdoms in Sikhism. CO7: explain about institutional development in Sikhism, New policy adopted by Shri Guru Hargobind Sahib Ji and Creation of Khalsa. CO8: describe about changes in society in the 18th century i,e. Social unrest, emergence of misls and institutions: Rakhi, Gurmata, Dal Khalsa. CO9: state about society and culture of the people under Maharaja Ranjit Singh. CO10: describe the physical geographical map of Punjab.
BCA-16-303	Information System Design and Implementation	After completing the course, the students can: CO1: state the categories of Information System (IS) and its various operations support systems. CO2: use various IS like Accounting System, Inventory Control System and Office Automation System. CO3: explain various phases of software development life cycle (SDLC). CO4: state the managerial issues related to the information systems. CO5: analyze a problem and identify and to define the computing requirements appropriate to its solution. CO6: evaluate a computer-based information system. CO7: assist in the creation of an effective Project plan.
BCA-16-304	Computer Oriented Numerical Methods	After completing the course, the students can: CO1: use Bisectin, Secant, Regula-Falsi and Newton's Method to solve various types of equations and also to find roots of polynomial. CO2: solve Interpolation, Lagrange and Hermite method, Divided Difference method. CO3: solve Numerical Differentiation, Numerical quadrature with the help of Newton-Cote's, Gauss Quadrature and Chebychev's formula. CO4: find the measures of accuracy, absolute error,

		relative error, computational error etc, relationship between errors. CO5: Solve the Ordinary Differential Equations by using Euler method, Runga-Kutta method.
BCA-16-305	Data Structures	After completing the course, the students can: CO1: state about how data can be stored in memory. CO2: implement arrays and various operations on array. CO3: implement Stacks and Queues and various operations on them. CO4: implement the concept of Linked List. CO5: implement the concept of various types of Trees. CO6: implement various searching and sorting techniques along with their complexity. CO7: implement Graph and Graph traversal techniques.
BCA-16-306	Lab Based on BCA-16-304	At the end of the course, the students can: CO1: derive numerical methods for various mathematical operations and tasks, such as interpolation, differentiation, integration, the solution of linear and nonlinear equations, and the solution of differential equations. CO2: analyze and evaluate the accuracy of common numerical methods. CO3: implement numerical methods in Computer lab.
BCA-16-307	Lab Based on BCA-16-305	After completing the course, the students can: CO1: design and analyze the time and space efficiency of the data structure. CO2: identity the appropriate data structure for given problem. CO3: use the applications of data structures.

SEMESTER – IV

COURSE CODE	COURSE NAME	COURSE OUTCOMES
BCA-16-401/BCA-16-402	Punjabi/History and Culture of Punjab	Punjabi (sur-sMvydnw) CO1: ਫੀਰੋਜ਼ਦੀਨ ਸ਼ਰਫ਼ ਦੀਆ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬ ਅਤੇ ਦੇਸ਼ ਪਿਆਰ ਦੀ ਭਾਵਨਾ ਬਾਰੇ ਜਾਣੂੰ ਕਰਵਾਇਆ ਗਿਆ। ਮਾਂ ਕਵਿਤਾ ਰਾਹੀਂ ਮਾਂ-ਪਿਆਰ ਦਾ ਸ਼ੰਦੇਸ਼ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਦਿੱਤਾ। CO2: ਨੰਟ ਲਾਲ ਨੂਰਪੁਰੀ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਸਿੱਖ ਧਰਮ ਵਿੱਚ ਕੁਰਬਾਨੀਆਂ ਦੀ ਪਰੰਪਰਾ, ਅਜੋਕੇ ਸਮੇਂ ਵਿੱਚ ਹਿੰਦੁਸਤਾਨ ਦੀ ਹਾਲਤ ਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਨਾਲ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਾਂਝ ਪੁਵਾਈ। CO3: ਸ਼ਿਵ ਕੁਮਾਰ ਦੀਆ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਬਾਰੇ ਵਿਦਿਆਰਥੀ ਜਾਣੂੰ ਹੋਏ CO4: ਪਾਸ਼ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਕਸ਼ਲਵਾਦੀ ਲਹਿਰ ਬਾਰੇ ਗਿਆਨ ਹਾਸਲ ਹੋਇਆ। CO5: ਸੁਰਜੀਤ ਪਾਤਰ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆ ਨੂੰ ਵਰਤਮਾਨ ਸਮੇਂ ਵਿੱਚ ਲਿਖੀ ਜਾ ਰਹੀ ਕਵਿਤਾ ਬਾਰੇ ਗਿਆਨ ਹਾਸਲ ਹੋਇਆ। **pMjwbI kQw ikqwb** CO1: ਗੁਰਦਿਆਲ ਸਿੰਘ ਦੀ ਕਹਾਣੀ ‘ਗਧੀ ਵਾਲਾ’ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀ ਮੱਧ ਵਰਗੀ ਲੋਕਾਂ ਦੇ ਸੁਭਾਅ ਪ੍ਰਤੀ ਜਾਣੂੰ ਹੋਏ। CO2: ਰਘਬੀਰ ਢੰਡ ਦੀ ਕਹਾਣੀ ‘ਕੁਰਸੀ’ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਕਸਲਵਾਦੀ ਲਹਿਰ ਦੌਰਾਨ ਲੋਕਾਂ ਉੱਤੇ ਹੋਏ ਤਸੱਦਦ, ਪੰਜਾਬੀ ਲੋਕ-ਕਲਾਵਾਂ ਦੀ ਹੋ ਰਹੀ ਬੇਕਦਰੀ ਤੇ ਅਮੀਰ-ਗਰੀਬ ਲੋਕਾ ਦੇ ਅੰਤਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਈ। CO3: ਮੋਹਨ ਭੰਡਾਰੀ ਦੀ ਪੁਸਤਕ ‘ਬਾਕੀ ਸਭ ਸੁਖ ਸਾਂਦ ਹੈ’ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਲੋਕਾਂ ਦੇ ਸੁਭਾਅ ਬਾਰੇ ਪਤਾ ਲੱਗਿਆ ਜਿਹੜੇ ਅਤਿ ਦੁੱਖੀ ਹੁੰਦੇ ਹੋਏ ਵੀ ਆਖਦੇ ਹਨ ਕਿ ‘ਬਾਕੀ ਸਭ ਸੁਖ ਸਾਂਦ ਹੈ’। CO4: ਗੁਰਬਚਨ ਭੁੱਲਰ ਦੀ ਕਹਾਣੀ ‘ਰੋਹੀ ਬੀਆਬਾਨ’ ਰਾਹੀਂ ਸ਼ਹਿਰ ਵਿੱਚ ਇਕੱਲਤਾ ਦੀ ਜ਼ਿੰਦਗੀ ਭੋਗ ਰਹੇ ਲੋਕਾਂ ਬਾਰੇ ਵਿਦਿਆਰਥੀਆ ਨੂੰ ਗਿਆਨ ਹੋਇਆ। CO5: ‘ਜਿੱਥੋਂ ਸੂਰਜ ਉੱਗਦਾ ਹੈ’ ਕਹਾਣੀ ਰਾਹੀਂ ਪਿੰਡਾਂ ਦੇ

		ਅਸਰ ਰਸੂਖ ਵਾਲੇ ਬੰਦਿਆਂ ਦੁਆਰਾ ਲੋਕਾਂ ਨਾਲ ਕੀਤੀਆਂ ਜਾਂਦੀਆ ਵਧੀਕੀਆਂ ਬਾਰੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜਾਣਕਾਰੀ ਮਿਲੀ। CO6: ਵਰਿਆਮ ਸੰਧੂ ਦੀ ਕਹਾਣੀ 'ਪਰਛਾਵੇਂ 'ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ 1947 ਦੀ ਵੰਡ ਦੌਰਾਨ ਹੋਈ ਕਤਲੋਗਾਰਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੀ। CO7: ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪ੍ਰੈਸ ਨੋਟ ਅਤੇ ਇਸ਼ਤਿਹਾਰ ਦੀ ਸਿਖਲਾਈ ਨਾਲ ਅਖਬਾਰਾਂ ਲਈ ਖ਼ਬਰਾਂ ਭੇਜਣ ਅਤੇ ਇਸ਼ਤਿਹਾਰ ਭੇਜਣ ਦੀ ਮੁਹਾਰਤ ਹਾਸਲ ਹੋਈ, ਜਿਸ ਨਾਲ ਉਹ ਪੱਤਰਕਾਰੀ ਦਾ ਕਿੱਤਾ ਅਪਣਾ ਸਕਦੇ ਹਨ। Punjabi course outcomes translated in English CO1: Firozshahdin Sharaf's poems make the students aware of the feeling of love for Punjab and the country. The message of motherly love has been given to the students through the poem Maa. CO2: Nand Lal Noorpuri's poems make the students aware of the tradition of sacrifices in the Sikh religion, the condition of India in present times and the culture of Punjab. CO3: Through the poems of Shiv Kumar, students get acquainted with the culture of Punjab. CO4: Pash's poems provide the students knowledge about the Naxalite movement. CO5: Through the poems of Surjit Patar, students get knowledge about the poems being written in the present time. Punjabi Katha Kitab CO1: Through Gurdial Singh's story Gadhi Wala, students get to know about the behavior of the middle class people. CO2: Raghbir Dhad's story Kursi provides the information about the torture of people during the Naxalite movement, the disrespect of Punjabi folk-arts and the difference between rich and poor.

		CO3: Mohan Bhandari's book Baki Sab Sukh Sand provides the information about the nature of Punjabi people who, even when they suffer, say that everything else is fine. CO4: Through Gurbachan Bhullar's story Rohi Biaban, students got to know about the people living in isolation in the city. CO5: The story Jitho Suraj Ugada Hai provides students the information about the abuses done to the people by the influential men of the villages. CO6: The study of Variyam Sandhu's story Parshavein provides students information about the massacre that took place during the partition of 1947. CO7: Students learned the skill of making press notes and forming advertisement for newspapers which would enable them to pursue the profession of journalism. History and Culture of Punjab CO1: describe about Colonial Rule in Punjab i.e. Annexation of Punjab Board of Administration CO2: state about the western education introduced by Britishers. CO3: explain about Agriculture development. CO4: describe about early socio-religious reform in all religions. CO5: describe about Socio-Religious Reform Movement i.e. Arya Samaj, Singh Sabhas and Ahmadiyas. CO6: state about Development of Press and Literature. CO7: describe about the emergence of political consciousness. CO8: describe about the Gurdwara Reform movement i.e Major marchas, Activities of Babbar Akalis. CO9: explain about the freedom struggle i.e. all Monuments.

		CO10: explain about the partition of Punjab and its aftermath.
BCA-16-403	Software Project Management	After completing the course, the students can: CO1: develop the software project. CO2: develop the methodology of software project. CO3: use the tools and techniques of software Engineering. CO4: verify and validate the problem of software programming CO5: maintain the quality of software project.
BCA-16-404	Operating System Concepts and Linux	After completing the course, the students can: CO1: describe the basic working process of an operating system. CO2: explain the importance of process and scheduling. CO3: state the issues in synchronization and memory management CO4: describe the key mechanisms in design of operating systems modules. CO5: state about process management, concurrent processes and threads, memory management, virtual memory concepts, deadlocks. CO6: check and learn the comparison performance of processor scheduling algorithms - produce algorithmic solutions to process synchronization problems. CO7: use the UNIX structure, commands, and utilities.
BCA-16-405	Database Management System	After completing the course, the students can: CO1: explain about DBMS, data models, a schema, E-R Diagram, relational database and benefits of database. CO2: design a good database using normalization, decomposition and functional dependency

		CO3: explain the concepts of database architecture, client server architecture, parallelism concepts and distributed database concepts CO4: use indexes, sequences, data integrity, creating and maintaining tables and user privileges. CO5: apply the basic concepts of PL/SQL programming, cursors, triggers, packages, procedures, functions and transactions
BCA-16-406	Lab Based on BCA-16-404	After completing the course, the students can: CO1: describe and understand the LINUX file system. CO2: write shell scripts in order to perform shell programming. CO3: explain the text processing utilities, process management and system operation of LINUX.
BCA-16-407	Lab Based on BCA-16-405	After completing the course, the students can: CO1: explain the underlying concepts of database Technologies. CO2: design and implement a database schema for a given problem-domain. CO3: normalize a database and populate and query a database using SQL DML/DDL commands. CO4: declare and enforce integrity constraints on a Database.

SEMESTER – V		
COURSE CODE	COURSE NAME	COURSE OUTCOMES
BCA-16-501	Computer Networks	After completing the course students will be able to: CO1: differentiate between different Network Models. CO2: use and apply different network technologies. CO3: run a smooth network after getting aware of

		various hardware and software. CO4: recall the concept of Communication channel. CO5: transmit the data wirelessly. CO6: describe the various layers of Network architecture. CO7: implement the switching techniques. CO8: solve the security threats and provide security services after getting the knowledge about the design issues in network security.
BCA-16-502	Discrete Mathematics	On completing this course students will be able to: CO1: explain about Sets, Subsets, Partition of Sets, Minset, Maxset, Basic Set Operations, Venn diagrams. CO2: describe about Relation and Functions, their graphic representation, their properties and types. CO3: solve questions related to Recurrence Relation with constant coefficients, their Homogenous Solutions, Particular Solutions, Total Solutions. CO4: solve the practical problems using Graphs and Graph Theory and can find shortest path in Graphs using different Methods and to solve their practical problems. CO5: describe the language of Finite State Machines, analysis of Algorithms and their Time Complexity problems.
BCA-16-503	Java Programming	After the completion of the course, the students will be able to: CO1: apply the principles and practice of object-oriented programming in the construction of robust maintainable programs which satisfy the requirements. CO2: design and implement an application that demonstrates their competency with Java syntax, structure and programming logic, incorporating basic features of the language as well as some

		features from the I/O (Input/output) or GUI libraries. CO3: use Java Programming language in the development of small to medium sized application programs that demonstrate professionally acceptable coding and performance standards.
BCA-16-504	Web Application Development using PHP	After the completion of the course, the students will be able to: CO1: use the fundamentals of web and develop basic Webpages. CO2: use different styles to the webpage elements and create, modify and format the contents of webpage with CSS CO3: create dynamic, interactive Webpages using JavaScript and apply basic controls of elements with JavaScript. CO4: use JavaScript to validate form entries and study the server-side scripting language, PHP CO5: develop knowledge of MySQL commands and Use PHP to access a MySQL database.
BCA-16-505	Lab Based on BCA-16-503	After the completion of the course, the students will be able to: CO1: explain about the model of object-oriented programming and fundamental features of an object-oriented language. CO2: test, document and prepare a professional looking package for each business project. CO3: write a computer program to solve specified problems and to use the JavaSDK environment to create, debug and run simple Java programs. CO4: explain and develop programs for inheritance, multithreading, applets, exception handling and file handling.
BCA-16-506	Lab Based on BCA-16-	After the completion of the course, the students will be

	504	able to: CO1: design a basic website using HTML and CSS to demonstrate responsive web design CO2: implement dynamic Webpages with validation using JavaScript objects by applying different event handling mechanism CO3: use PHP scripts to handle html forms CO4: create PHP programs that use various PHP library functions CO5: develop PHP programs to understand the difference between GET & POST Methods CO6: implement PHP programs of cookie and session CO7: develop simple web application using server side PHP and database connectivity using MySQL

SEMESTER – VI		
COURSE CODE	COURSE NAME	COURSE OUTCOMES
BCA-16-601	E-Commerce	After the completion of the course, the students will be able to: CO1: explain about e-commerce, its components, structure of e-banking, rules and regulations on ecommerce. CO2: describe about the technical and business aspects of e-commerce. CO3: state the principles and practices of e-commerce and its related technologies. CO4: discuss the trends in e-Commerce and the use of the Internet. CO5: explain the economic consequences of e-Commerce.
BCA-16-602	Application Development using	After the completion of the course, the students will be able to:

	VB.Net	CO1: contrast and compare major elements of the .NET Framework and explain how C# fits into the .NET platform. CO2: analyze the basic structure of a C# application and be able to document, debug, compile, and run a simple application. CO3: create methods (functions and subroutines) that can return values and take parameters. CO4: demonstrate use of common objects and reference types. CO5: demonstrate ability to create a C# Windows and web application using Visual Studio
BCA-16-603	Computer Graphics and Multimedia Applications	After the completion of the course, the students will be able to: CO1: work and interact, through hands-on experiences, to design, develop, and modify electronically generated imaginary using a wide range of sophisticated graphical tools and techniques. CO2: summarize different hidden surface elimination algorithms and shading techniques used in computer graphics and digital media production CO3: apply the basics of computer graphics, different display devices and applications of computer graphics. CO4: explain about algorithmic development of graphics primitives like; point, line, circle, ellipse etc. CO5: describe about the basic building blocks of multimedia and a study about how these blocks together with the current technology and tools.
BCA-16-604	Lab Based on BCA-16-603	After the completion of the course, the students will be able to: CO1: demonstrate an understanding of contemporary

		graphics hardware. CO2: create interactive graphics applications in C using one or more graphics. CO3: create interactive graphics applications in C using one or more graphics application programming interfaces. CO4: write program functions to implement graphics primitives.
BCA-16-605	Major Project and Seminar	After the completion of the course, the students will be able to: CO1: use languages to code front end and back end of software. CO2: initiate into the process of designing, coding and testing a software module. CO3: develop a complete software module. CO4: get skilled in applying Software Development Cycle to develop a software module. CO5: use the techniques, skills and modern engineering tools necessary for software development. CO6: develop a software product along with its complete documentation. CO7: meet the requirements of the industry and develop skills in presentation and discussion of research topics in a public forum. CO8: get exposure to a variety of research projects and activities in-order-to enrich their academic experience.

BACHELOR OF COMMERCE (B.COM.)

PROGRAM OUTCOMES (POs)	After the completion of B.Com. programme, the students will be able to: PO1: do business and recall its implications in the society.

	PO2: get skilled in maintaining accounts. PO3: get skills of entrepreneurship, law and management. PO4: identify the avenues of marketing and banking both traditional and modern. PO5: develop the skills and techniques of communication to be successful in business and personal life. PO6: improve competency to be eligible and employable in job market. PO7: recognize different value systems and ethics PO8: follow moral dimensions and accept responsibility. PO9: apply their knowledge in the field of Commerce and Finance.

PROGRAM SPECIFIC OUTCOMES (PSOs)	After the completion of B.COM. Program, students will be able to: PSO1: apply the skills gained in the course in the real world. PSO2: become a Manager, Accountant, Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government employee and so on. PSO3: prove themselves in different professional exams like CA, CS, CMA, and UPSC. PSO4: get skilled in different areas of communication, decision making, innovations and problem solving in day-to-day business activities. PSO5: Gain thorough systematic and subject skills within various disciplines of Finance, Auditing and Taxation, Accounting, Management, Communication, Computer, etc.

	PSO6: practical skills to work as Accountant, Audit Assistant, Tax Consultant, and Computer Operator as well as other Financial Supporting Services. PSO7: get skills related to an Advanced Accounting career and apply both quantitative and qualitative knowledge to their future careers in business. PSO8: pursue their higher education and can contribute to research in the field of Finance and Commerce.

COURSE OUTCOMES (COs):

SEMESTER-I		
COURSE CODE	COURSE TITLE	COURSE OUTCOME
BCM 101A/BCM 101B	Punjabi/History and Culture of Punjab	After completing the course, the students will be able to: Punjabi CO1: 'ਗਲੀਏ ਚਿਕੜ ਦੂਰਿ ਘਰੁ' (ਸਵੈ ਜੀਵਨੀ) ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਲੇਖਕ ਦੇ ਜੀਵਨ-ਸੰਘਰਸ਼ ਬਾਰੇ ਡੂੰਘਾਈ ਵਿਚ ਗਿਆਨ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ। ਜੀਵਨੀ ਅਤੇ ਸਵੈ-ਜੀਵਨੀ ਰਚਨਾ ਦੁਆਰਾ ਜਿਥੇ ਵਿਦਿਆਰਥੀ ਜੀਵਨ ਦੀਆਂ ਬਰੀਕੀਆਂ ਨੂੰ ਸਮਝਦੇ ਹਨ ਉੱਥੇ ਬੁੱਧੀਜੀਵੀਆਂ ਅਤੇ ਸਾਹਿਤਕਾਰਾਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਤੋਂ ਪ੍ਰੇਰਨਾ ਲੈ ਕੇ ਸਮਾਜ ਨੂੰ ਸਹੀ ਸੇਧ ਦੇਣ ਵਾਲੇ ਸਮਰੱਥ ਨਾਗਰਿਕ ਬਣਦੇ ਹਨ। ਸਾਹਿਤ ਦਾ ਇਹ ਰੂਪ ਵਿਦਿਆਰਥੀ ਵਰਗ ਨੂੰ ਜੀਵਨ ਵਿਚ ਆਉਣ ਵਾਲੀਆਂ ਦੁਸ਼ਵਾਰੀਆਂ ਉਪਰੰਤ ਸਹਿਜਤਾ ਅਤੇ ਹੌਂਸਲੇ ਨਾਲ ਜੀਊਣ ਦੇ ਕਾਬਿਲ ਬਣਾਉਂਦਾ ਹੈ। ਸਾਹਿਤ ਦੀ ਇਹ ਵਿਧਾ ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਪਣੇ ਅਤੇ ਦੂਸਰਿਆਂ ਦੇ ਜੀਵਨ ਬਾਰੇ ਲਿਖਣ ਦੀ ਸੇਧ ਹੁੰਦੀ ਹੋਈ ਲੇਖਕ/ਸਾਹਿਤਕਾਰ ਬਣਨ ਦੇ ਮੌਕੇ ਪ੍ਰਦਾਨ ਕਰਦੀ ਹੈ। CO2: ਵਿਦਿਆਰਥੀ, ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਉੱਪਰ ਨਿਬੰਧ ਰਚਨਾ ਦੁਆਰਾ ਜੀਵਨ ਅਤੇ ਸਮਾਜ ਦੇ ਅਲੱਗ-ਅਲੱਗ ਪਹਿਲੂਆਂ ਨੂੰ ਆਪਣੇ ਨਜ਼ਰੀਏ ਤੋਂ ਦੇਖਣ-ਪਰਖਣ ਦੇ ਸਮੱਰਥ ਹੁੰਦੇ ਹਨ ਅਤੇ ਵਿਦਿਆਰਥੀ ਚਲੰਤ ਮਸਲਿਆਂ ਉੱਪਰ ਲਿਖਣ ਦੇ ਸਮੱਰਥ ਹੁੰਦੇ ਹਨ। ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਰਚਨਾਤਮਕ ਹੁਨਰ ਨੂੰ ਉਤਸ਼ਾਹ ਮਿਲਦਾ ਹੈ। CO3: ਇਸ਼ਤਿਹਾਰ/ਵਿਗਿਆਪਨ ਦਾ ਇਕ ਭਾਸ਼ਾ ਤੋਂ ਦੂਜੀ ਭਾਸ਼ਾ ਵਿਚ ਅਨੁਵਾਦ ਕਰਨ ਸਮੇਂ ਵਿਦਿਆਰਥੀ ਕਿਸੇ ਇਸ਼ਤਿਹਾਰ/ਵਿਗਿਆਪਨ ਦੀ ਬਣਤਰ, ਤਿਆਰੀ, ਮਹੱਤਤਾ ਤੇ ਇਸਦੇ ਵੱਖ-ਵੱਖ ਪਸਾਰਾਂ ਬਾਰੇ ਗਿਆਨ ਹਾਸਿਲ ਕਰਨ ਦੇ ਯੋਗ ਬਣਦੇ ਹਨ। ਵਿਦਿਆਰਥੀ ਕਿਸੇ ਵੀ ਭਾਸ਼ਾ ਵਿਚ

		ਛਪੇ ਇਸ਼ਤਿਹਾਰ ਨੂੰ ਪੜ੍ਹਨ, ਸਮਝਣ ਅਤੇ ਖੁਦ ਲਿਖਣ ਦੇ ਸਮਰੱਥ ਬਣਦੇ ਹਨ । ਸਿਲੇਬਸ ਦਾ ਇਹ ਭਾਗ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਹੁਨਰ ਪੈਦਾ ਕਰਕੇ ਉਨ੍ਹਾਂ ਨੂੰ ਰੋਜ਼ਗਾਰ ਦੇ ਮੌਕੇ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ । ਇਕ ਭਾਸ਼ਾ ਤੋਂ ਦੂਸਰੀ ਭਾਸ਼ਾ ਵਿਚ ਅਨੁਵਾਦ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਅਨੁਵਾਦਕ ਬਣਨ ਦੇ ਮੌਕੇ ਵੀ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ । ਇਸ ਨਾਲ ਵਿਦਿਆਰਥੀ ਆਪਣੇ ਕਿੱਤੇ ਨਾਲ ਜੁੜੀ ਸੰਬੰਧਿਤ ਭਾਸ਼ਾ ਨੂੰ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਵਿਚ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । CO4: ਸ਼ਬਦਾਂ ਅਤੇ ਵਾਕਾਂ ਨੂੰ ਸ਼ੁੱਧ ਕਰਕੇ ਲਿਖਣ ਸਮੇਂ ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨੂੰ ਸ਼ੁੱਧ ਕਰਕੇ ਲਿਖਣ, ਪੜ੍ਹਨ ਅਤੇ ਬੋਲਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । ਆਪਣੀ ਭਾਸ ਦੀ ਵਾਕ ਬਣਤਰ ਨਿਯਮਾਂ ਨੂੰ ਸਮਝਦੇ ਹਨ । ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਸ਼ਬਦਾਂ ਅਤੇ ਵਾਕਾਂ ਦਾ ਸਹੀ ਉਚਾਰਨ ਕਰਨਾ ਸਿੱਖਦੇ ਹਨ । ਉਨ੍ਹਾਂ ਅੰਦਰ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਨੂੰ ਲਿਖਣ, ਪੜ੍ਹਨ ਅਤੇ ਬੋਲਣ ਦੀ ਰੁਚੀ ਪੈਦਾ ਹੁੰਦੀ ਹੈ । Punjabi Course outcomes translated into English CO1: Through the study of Galiye Chikar Doori Gharu (Autobiography) students gain in-depth knowledge about the life struggle of the writer. Through biography and autobiography where students understand the subtleties of life, they become capable citizens who give the right guidance to society by taking inspiration from the works of intellectuals and writers. This form of literature enables the student class to live with ease and courage after the hardships that come in life. This genre of literature provides opportunities for the student to become a writer/writer by being guided to write about his own life and that of others. CO2: Students can examine different aspects of life and society from their perspective through essay writing on various topics and students can write on current issues. The creative skills of students are encouraged. CO3: While translating an advertisement/advertisement from one language to another language, students can acquire knowledge about the structure, preparation, importance, and various dimensions of an advertisement/advertisement. Students become

		able to read, understand and write advertisements printed in any language. This part of the syllabus provides employment opportunities to the students by developing creative skills in them. Translation from one language to another language also provides opportunities for students to become translators. With this, students can understand the relevant language related to their profession in their mother tongue. CO4: Students can write, read and speak the Punjabi language in a refined way while writing words and sentences. Understand the sentence structure rules of their language. Learn to pronounce Punjabi language words and sentences correctly. They develop an interest in writing, reading, and speaking their mother tongue. History and Culture of Punjab: CO1: describe about the first civilization of India i.e. Indus Valley Civilization. CO2: describe about Vedic age, Growth of Jainism and Buddhism in 6th century B.C. in Punjab. CO3: state about the society and culture under Maurayas and Guptas. CO4: explain about Cultural Reorientation and development of Sufism. CO5: describe about the youngest religion of the world i.e. Sikhism, from Shri Guru Nanak Dev Ji to all ten Gurus. CO6: state about martyrdoms in Sikhism. CO7: explain about institutional development in Sikhism, New policy adopted by Shri Guru Hargobind Sahib Ji and Creation of Khalsa. CO8: describe about changes in society in the 18th century i,e. Social unrest, emergence of misls and institutions: Rakhi, Gurmata, Dal Khalsa.

		CO9: state about society and culture of the people under Maharaja Ranjit Singh. CO10: describe the physical geographical map of Punjab.
BCM 102	English and Business Communication	After completing this course, students will be able to: CO1: develop an appreciation of Language by broadening their vocabularies. CO2: describe the knowledge of authors and their works prescribed in the book 'Ten Mighty Pen'. CO3: enhance their Communicative skills through Language and Literature. CO4: improve their Writing Skills that are relevant and can empower in real life experiences in Interview and professional fields, in everyday life. CO5: distinguish between formal and informal modes of communication. CO6: write effective business documents (such as notice, advertisement, memos etc. which enables them to think analytically. CO7: state the meaning of business communication and the methods to overcome business communication barriers.
BCM 103	Interdisciplinary psychology for Managers	After the completion of this course student will be able to: CO1: describe the concepts of Human Behavior. CO2: explain the techniques of Human Behavior. CO3: apply the various concepts of Motivation, Leadership and Conflict Management in a business concern.
BCM 104	Business Economics – I	After studying the Business Economics students will be able to: CO1: explain the basic concept of Micro-Economics relevant for Business decision making. CO2: apply the economic principles in Management. CO3: analyze how individual decision maker both the

		consumers and producers, behave in a variety of economic environment. CO4: describe the working of free market economy. CO5: utilize the scarce resources effectively & efficiently avoiding the wastage of resources. CO6: explain how the prices of different goods and factors of production can be determined.
BCM 105	Principles of Financial Accounting	After completing this course, the students will be able to: CO1: describe the meaning of GAAP, Accounting concepts and conventions. CO2: differentiate between Financial and Cost Accounting. CO3: express the different concepts of consignment and Joint Ventures. CO4: apply accounting treatment of sole proprietor and partnership.
BCM 106	Commercial Laws	On completion of this course student will be able to: CO1: describe the relevance of Law of Contract Act, 1872. CO2: state the legal framework of formation, performance, discharge of contract and its Remedies in case of breach of contract. CO3: apply basic knowledge about entering into special contracts like indemnity, guarantee, bailment, pledge and agency. CO4: describe the provisions of Right to Information Act, 2005. CO5: describe the Consumer Protection Act, 1986.
BCM 107	Principles and Practices of Management	Students after completing this course, will be able to: CO1: express the meaning, concept and history of business management. CO2: describe the process and various functions

		performed by management. CO3: apply the techniques for effective and efficient management. CO4: make and implement decisions in an organization effectively. CO5: demonstrate the qualities of a good manager.
SEMESTER-II		
BCM 201A/BCM 201B	Punjabi/History and Culture of Punjab	After the completion of course, the students can: Punjabi CO1: 'ਗਲੀਏ ਚਿਕੜ ਦੂਰਿ ਘਰੁ' (ਸਵੈ ਜੀਵਨੀ) ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਲੇਖਕ ਦੇ ਜੀਵਨ-ਸੰਘਰਸ਼ ਬਾਰੇ ਡੂੰਘਾਈ ਵਿਚ ਗਿਆਨ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ। ਜੀਵਨੀ ਅਤੇ ਸਵੈ-ਜੀਵਨੀ ਰਚਨਾ ਦੁਆਰਾ ਜਿਥੇ ਵਿਦਿਆਰਥੀ ਜੀਵਨ ਦੀਆਂ ਬਰੀਕੀਆਂ ਨੂੰ ਸਮਝਦੇ ਹਨ ਉੱਥੇ ਬੁੱਧੀਜੀਵੀਆਂ ਅਤੇ ਸਾਹਿਤਕਾਰਾਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਤੋਂ ਪ੍ਰੇਰਨਾ ਲੈ ਕੇ ਸਮਾਜ ਨੂੰ ਸਹੀ ਸੇਧ ਦੇਣ ਵਾਲੇ ਸਮਰੱਥ ਨਾਗਰਿਕ ਬਣਦੇ ਹਨ। ਸਾਹਿਤ ਦਾ ਇਹ ਰੂਪ ਵਿਦਿਆਰਥੀ ਵਰਗ ਨੂੰ ਜੀਵਨ ਵਿਚ ਆਉਣ ਵਾਲੀਆਂ ਦੁਸ਼ਵਾਰੀਆਂ ਉਪਰੰਤ ਸਹਿਜਤਾ ਅਤੇ ਹੌਸਲੇ ਨਾਲ ਜੀਊਣ ਦੇ ਕਾਬਿਲ ਬਣਾਉਂਦਾ ਹੈ। ਸਾਹਿਤ ਦੀ ਇਹ ਵਿਧਾ ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਪਣੇ ਅਤੇ ਦੂਸਰਿਆਂ ਦੇ ਜੀਵਨ ਬਾਰੇ ਲਿਖਣ ਦੀ ਸੇਧ ਹੁੰਦੀ ਹੋਈ ਲੇਖਕ/ਸਾਹਿਤਕਾਰ ਬਣਨ ਦੇ ਮੌਕੇ ਪ੍ਰਦਾਨ ਕਰਦੀ ਹੈ। CO2: ਦਫਤਰੀ, ਵਪਾਰਕ, ਸਮਾਜਿਕ ਅਤੇ ਸਭਿਆਚਾਰਕ ਮਸਲਿਆਂ ਬਾਰੇ ਚਿੱਠੀ-ਪੱਤਰ ਲਿਖਣ ਸਮੇਂ ਜਿਥੇ ਵਿਦਿਆਰਥੀ ਉਪਰੋਕਤ ਮਸਲਿਆਂ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ, ਉਥੇ ਲੋੜ ਪੈਣ ਤੇ ਅਜਿਹੇ ਮਸਲਿਆਂ ਦਾ ਹੱਲ ਕਰਨ ਸਮੇਂ ਕਿਸ ਅਧਿਕਾਰੀ ਤੱਕ ਪਹੁੰਚ ਕਰਨੀ ਹੈ ਆਦਿ ਬਾਰੇ ਜਾਣਕਾਰੀ ਗ੍ਰਹਿਣ ਕਰਦੇ ਹਨ। CO3: ਵਿਰਾਮ ਚਿੰਨ੍ਹ ਵਾਲੇ ਭਾਗ ਨੂੰ ਪੜ੍ਹਦੇ ਸਮੇਂ ਵਿਦਿਆਰਥੀ ਜਿਥੇ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਵਿਚ ਵਰਤੇ ਜਾਣ ਵਾਲੇ ਵਿਰਾਮ ਚਿੰਨ੍ਹਾ ਬਾਰੇ ਗਿਆਨ ਹਾਸਿਲ ਕਰਦੇ ਹਨ ਉਥੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨੂੰ ਸ਼ੁੱਧ ਕਰਕੇ ਲਿਖਣ, ਪੜ੍ਹਨ ਅਤੇ ਬੋਲਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ। ਆਪਣੀ ਭਾਸ਼ਾ ਦੀ ਵਾਕ ਬਣਤਰ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਸਮਝਦੇ ਹਨ। ਸ਼ਬਦਾਂ ਅਤੇ ਵਾਕਾਂ ਦਾ ਠੀਕ ਉਚਾਰਨ ਕਰਨਾ ਸਿਖ ਕੇ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਵਿਚ ਮੁਹਾਰਤ ਹਾਸਿਲ ਕਰਦੇ ਹਨ। CO4: ਇਸ਼ਤਿਹਾਰ ਲੇਖਣ, ਇਸ਼ਤਿਹਾਰਾਂ ਅਤੇ ਕਿੱਤੇ ਨਾਲ ਜੁੜੀ ਸ਼ਬਦਾਵਲੀ ਦਾ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿਚ ਅਨੁਵਾਦ ਕਰਨ ਸਮੇਂ ਵਿਦਿਆਰਥੀ ਕਿਸੇ ਇਸ਼ਤਿਹਾਰ/ ਵਿਗਿਆਨ ਦੀ ਬਣਤਰ, ਤਿਆਰੀ, ਮਹੱਤਤਾ ਅਤੇ ਇਸਦੇ ਵੱਖ-ਵੱਖ ਪਸਾਰਾਂ ਬਾਰੇ ਗਿਆਨ ਹਾਸਿਲ ਕਰਨ ਦੇ ਯੋਗ ਬਣਦੇ ਹਨ। ਵਿਦਿਆਰਥੀ ਕਿਸੇ ਵੀ ਭਾਸ਼ਾ ਵਿਚ ਛਪੇ ਇਸ਼ਤਿਹਾਰ ਨੂੰ ਪੜ੍ਹਨ, ਸਮਝਣ ਅਤੇ ਖੁਦ ਲਿਖਣ ਦੇ ਸਮਰੱਥ ਬਣਦੇ ਹਨ। ਸਿਲੇਬਸ ਦਾ ਇਹ ਭਾਗ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਹੁਨਰ ਪੈਦਾ ਕਰਕੇ ਉਨ੍ਹਾਂ ਨੂੰ ਰੋਜ਼ਗਾਰ ਦੇ ਮੌਕੇ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ। ਇਕ ਭਾਸ਼ਾ ਤੋਂ ਦੂਸਰੀ ਭਾਸ਼ਾ ਵਿਚ ਅਨੁਵਾਦ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਅਨੁਵਾਦਕ ਬਣਨ ਦੇ ਮੌਕੇ ਵੀ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ। ਇਸ ਨਾਲ ਵਿਦਿਆਰਥੀ ਆਪਣੇ ਕਿੱਤੇ ਨਾਲ ਜੁੜੀ ਸੰਬੰਧਿਤ ਭਾਸ਼ਾ ਨੂੰ ਆਪਣੀ

		ਮਾਤ-ਭਾਸ਼ਾ ਵਿਚ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ। Punjabi Course outcomes translated into English CO1: Through the study of Galiye Chikar Door Gharu (Autobiography) students gain in-depth knowledge about the life struggle of the writer. Through biography and autobiography where students understand the subtleties of life, they become capable citizens who give the right guidance to society by taking inspiration from the works of intellectuals and writers. This form of literature enables the student class to live with ease and courage after the hardships that come in life. This genre of literature provides opportunities for the student to become a writer/writer by being guided to write about his own life and that of others. CO2: While writing letters about office, commercial, social and cultural issues, where students can understand the above issues, they acquire information about which authority to approach while solving such issues if necessary. CO3: While reading the punctuation section, students gain knowledge about the punctuation used in their mother tongue and can write, read and speak the Punjabi language in a refined way. Understand the rules of sentence structure of their language. They gain proficiency in their mother tongue by learning to pronounce words and sentences correctly. CO4: Students can acquire knowledge about the structure, preparation, importance, and its various dimensions of an advertisement/science while translating advertisement writing, advertisement, and profession related vocabulary into the Punjabi language. Students become able to read,

		understand and write advertisements printed in any language. History and Culture of Punjab Students, after completing this course, will be able to: CO1: describe about Colonial Rule in Punjab i.e. Annexation of Punjab Board of Administration CO2: state about the western education introduced by Britishers. CO3: explain about Agriculture development. CO4: describe about early socio-religious reform in all religions. CO5: describe about Socio-Religious Reform Movement i.e. Arya Samaj, Singh Sabhas and Ahmadiyas. CO6: state about Development of Press and Literature. CO7: describe about the emergence of political consciousness. CO8: describe about the Gurdwara Reform movement i.e Major marchas, Activities of Babbar Akalis. CO9: explain about the freedom struggle i.e. all Monuments. CO10: explain about the partition of Punjab and its aftermath.
BCM 202	English and Business Communication	After the completion of this course, students will be able to: CO1: enhance their knowledge and understanding of English literature. CO2: write précis, short formal reports and captivativing CVs. CO3: use modern forms of communication in a better way. CO4: develop the skills of group discussion along with speaking skills and cognitive abilities. CO5: equip them with skills to participate independently in group discussions.
BCM 203	Interdisciplinary E	After the completion of this course student will be able

	Commerce	to: CO1: describe about E-commerce and its related concepts. CO2: perform in any area of operation related to E-commerce and can excel in the field of commerce with IT specialization. CO3: explain about various types of Electronic payment system, cryptography, digital-signatures, Electronic data interchange.
BCM 204	Business Economics – II	Students will acquire the skill to: CO1: explain the basic concepts of the distribution and modern tools of macro-economic analysis. CO2: evaluate the overall performance of the economy and helps to understand the functioning of a complicated modern economic system. CO3: explain many international trade aspects like effects of tariff determination of exchange rates, gains from international trade. CO4: integrate macroeconomic analysis into business decisions. CO5: describe key macroeconomic variables and their behavior, and enable to critically evaluate different economics.
BCM 205	Corporate Accounting	After completing this course, the students will be able to: CO1: state the meaning of accounting and sources of Finance. CO2: describe about buyback of shares. CO3: analyze the banking and insurance companies. CO4: express the redemption of shares and debentures.
BCM 206	Business Laws	After completion of the course, students will be able to: CO1: apply basic legal knowledge to business transactions.

		CO2: identify the rules of The Sale of Goods Act, 1930 and rights of an unpaid seller. CO3: differentiate between express & implied conditions and warranties. CO4: handle and minimize the Industrial Disputes and promote industrial Peace under Industrial Dispute Act, 1947. CO5: identify various negotiable instruments and how these documents can be used in day-to-day business transactions. CO6: state the legal provisions of Factories Act 1948.
BCM 207	Human Resource Management	After the completion of this course, student will be able to: CO1: state the different aspects of managing human resource in organization. CO2: recognize various techniques of job analysis and job design. CO3: describe the concepts of Performance appraisal, Internal mobility and transfers
393	Environmental and Road Safety Education	After the completion of course, the students will be able to: CO1: describe about plant and animal distribution patterns in relation to biotic and biotic factors. CO2: explain about essential characteristics underlying Natural ecosystems. CO3: describe about the model population and community-level dynamics. CO4: interpret and present ecological results. CO5: identify Global environmental problems. CO6: explain about Social issues and Environment issue. CO7: describe the significance of road safety. CO8: state about Police-Public relationship, Traffic rule and Traffic signs.

		CO9: describe about Protective provisions against domestic and sexual violence. CO10: explain about the Protective laws for women. CO11: explain about the problem of drugs abuse. CO12: describe about the drugs and its effects. CO13: describe about the prevention and management of drug abuse.
SEMSTER-III		
BCM 301	Interdisciplinary Issues in Indian Commerce	After finishing the course, the students will be able to: CO1: explain information regarding investors protection in India. CO2: describe about various stock exchanges and commodity exchanges of India. CO3: state about the scheme "Make in India". CO4: explain FDI & FPI. CO5: describe the concept of International Finance and the various sources of International Finance.
BCM 302	Cost Accounting	After completing this course, student will be able to: CO 1: define the various elements of Cost. CO2: use the various methods of pricing material in an organization. CO3: determine the labor cost by applying the different methods. CO4: use their knowledge regarding reconciliation of cost and financial accounts & service costing in industry.
BCM 303	Company Law	After completing this course, the students will be able to: CO1: express the meaning, concept and types of companies. CO2: explain the steps involved in the formation of a company. CO3: describe various terms related to a company law. CO4: follow the provisions of per Companies Act, 2013.

		CO5: employ the procedure followed in convening various types of company meetings.
BCM304	Business Mathematics and Statistics	After completing the course, students will be able to: CO1: apply mathematical and statistical tool in business decision. CO2: use math in departments of accounting, inventory management, marketing, sales forecasting. CO3: assess the financial performance of the business. CO4: estimate the income and expenditure along with risk analysis. CO5: maintain Record and manage the business operations.
BCM 305	Banking and Insurance	After finishing this course, students will be able to : CO1: recall the structure and functions of banking system. CO2: explain the functions of RBI including banking ombudsman. CO3: describe the features, principles of insurance. CO4: review the different types of insurance including insurance Ombudsman.
BCM 306	Goods and Services Tax (GST)	After the completion of this course student will be able to: CO1: describe the concept of indirect tax. CO2: compute the assessable value of transactions related to goods and services for levy and determination of tax liability. CO3: calculate tax liability and identify taxable entities. CO4: explain the concept of various types of GST (CGST, SGST, IGST, UTGST) CO5: evaluate the taxation structure before and after the implementation of GST, types of taxes under GST, eligibility and conditions for taking input tax credit.

		CO6: explain the tax subsumed under CGST And SGST, place of supply of goods and services.
SEMESTER-IV		
BCM 401	Interdisciplinary Security Analysis and Portfolio Management	At the end of the course, students will be able to: CO1: state the meaning and concepts of Securities issued in security market CO2: recall the dealing of securities in market. CO3: differentiate between different stock exchanges CO4: apply different methods of analyzing risk and return.
BCM 402	Advanced Accounting	At the end of this course, students will be able to: CO1: compute value of goodwill & shares CO2: calculate insurance claims CO3: express their knowledge regarding hire purchase accounting. Amalgamation, internal reconstruction, holding companies accounts etc. CO4: apply their knowledge to prepare liquidator final statement at the time of liquidation of company.
BCM 403	Auditing and Secretarial Practice	Students after finishing this course, will be able to: CO1: state the meaning, concept and types of audits. CO2: explain the various terms used in auditing and their statutory requirements.

		CO3: recall various duties and liabilities of an Auditor. CO4: discuss the role and responsibilities of a Company Secretary. CO5: frame an audit report of a company.
BCM 404	Cost Management	After the completion of this course, students will be able to: CO1: get acquainted with the various methods of cost Determination. CO2: apply various tools and techniques of cost control CO3: analyze contemporary concepts like: Activity based costing, Life cycle costing, Value chain analysis.
BCM 405	Marketing Management	At the end of this course, students will be able CO1: define the basic concepts of marketing. CO2: apply their knowledge regarding philosophies, process and techniques of marketing in the competitive world. CO3: relate with the emerging trends in Online marketing; e- marketing, mobile marketing and social media marketing. CO4: apply their knowledge in Pricing Decision, Distribution Decisions, Promotion Decisions. CO5: use various Promotion Tools while marketing the products.
SEMESTER-V		
BCM 501	Income Tax Law	At the end of course, students will be able to: CO1: explain the various concepts of Income Tax laws in India. CO2: determine the residential status of person. CO3: compute income under different heads of income. CO4: determine the total income of assesses. CO5: recall the various exempted incomes.
BCM 502	Management	Students after completing this course, will be able to:

	Accounting	CO1: express the meaning and the concept of Management Accounting. CO2: analyze the financial statements of a company by making Comparative financial statements, Common-Size statements and can use Trend Analysis. CO3: recall the new concepts of Social Accounting, Human Resource Accounting, and Price level Accounting and Responsibility. CO4: do Ratio analysis, make Cash flow and Funds flow statements.
BCM 503	Indian Economy	At the end of the course students will be able to: CO1: explain the fundamentals of Indian economy. CO2: explain about the Indian agriculture, manufacturing, services and trade sector. CO3: interpret the financial framework, market size, Profits and business motives of the country. CO4: compare and analyze India's economic position compared to the world economy. CO5: explain the craft of writing great answers, opinion, articles and blogs on economic issues. CO5: find economic data, demystify it and extract key indicators from it.
BCM 504	Production and Operation Management	After the completion of this course, student will be able to: CO1: assess in detail the various concepts of Production and Operation Management. CO2: analyze concepts like work study and work Measurement. CO3: keep production process up-to-date.
BCM 505	Entrepreneurship and Small Business	At the end this course, students will be able to: CO1: describe the different concepts of entrepreneurs. CO2: analyze the concessions given to men and women entrepreneurs.

		CO3: find the different facilities provided to entrepreneurs. CO4: express the concepts of MSME, Commerce and E-Commerce.
BCM 506	Financial Markets and Services	At the end of the course, students will be able to: CO1: explain the structure of the traditional and modern financial markets and services. CO2: analyze the concepts related to capital market, money market, and bill market. CO3: describe the Mutual Fund industry and Merchant Banking. CO4: define the role and function of the Financial System in the economy. CO5: outline the participants in the Financial Markets. CO6: take investment decisions in future.
SEMESTER- VI		
BCM 601	Direct Tax Laws	At the end of this course, students will be able to: CO1: apply the provisions regarding clubbing, set off and carry forward of losses. CO2: apply their knowledge regarding the various deductions under section 80 while computing total income. CO3: apply their knowledge in the assessment of individual, HUF, AOP&; firm. CO4: explain the various Income Tax Authorities, Procedure of Assessment (Practical aspects of Filing of Return to be stressed), CO5: define Penalties, Deduction & Collection of Tax at Source, Advance Payment of Tax, Appeals & Revision.
BCM 602	Financial Management	This course will help students in: CO1: expressing the meaning, need and importance of Financial management.

		CO2: calculating the Time Value of money with different techniques. CO3: computing the Cost of Debt, Preference Shares, Equity Capital and Retained Earnings CO4: estimating the Working Capital requirements and its management and its role in decision making CO5: applying the various techniques used for Financial Management. CO6: relating the concept and various theories behind these techniques.
BCM 603	Issues in Financial Reporting	After the completion of this course, student will be able to: CO1: list recent developments in financial reporting. CO2: recognize various issues arises in financial reporting at national and international level. CO3: explain the concepts of Segment reporting, Interim reporting, Leases and Intangible assets.
BCM 604	Social and Business Ethics	After completion of the course students will be able to: CO1: explain the relationship between ethics, morals and values at the workplace. CO2: explain about the adoption of business ethics by organizations. CO3: comprehend the ethical implications of business policies and decisions. CO4: apply ethics at workplace and in the development of society. CO5: explain about important issues under corporate social responsibility.
BCM 605	Operation Research	After finishing this course, students will be able to: CO1: recall the different concepts of OR. CO2: state the practical applicability of OR techniques in different fields.

		CO3: acquire skills to solve the problems of OR. CO4: describe the techniques of OR for problem solving.
BCM 606	Sectoral Aspects of Indian Economy	After finishing this course, students will be able to: CO1: explain about various sectoral aspects of Indian Economy. CO2: analyze agricultural problems and new initiatives towards organic farming. CO3: explain about small scale and large scale industries and their problems. CO4: state the problems of Indian Economy. CO5: explain the role of public and private sector in solving economic problems.

B.SC.

PROGRAM OUTCOMES (POs)	After the program, the students will be able to: PO1: demonstrate quality knowledge of Physics, Chemistry/Computer Science, Mathematics /Agriculture with solid fundamentals to understood the global problems. PO2: exhibit professional efficiency in different fields like Industry, Academics and research etc. PO3: apply knowledge to build up small scale industry for developing endogenous product. PO4: hold professional ethics as employee, entrepreneurs in facing the challenges at the global level. PO5: employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of the experiments. PO6: use modern techniques, lab equipment to have experiment knowledge about subject.

PROGRAM SPECIFIC OUTCOMES (PSOs)	After the program, the students will be able to: PSO1: explain the basic concepts, fundamental principles, and the scientific theories related to various

	scientific phenomena and their relevancies in the day-to-day life. PSO2: develop scientific attitude and temperament and give emphasis on the development of experimental skills, data analysis, calculation, measurements and also on the limitations and precautions about the experimental method data and results obtained. PSO3: Understand the conceptual development of the subject and its application in emerging areas of Physics, Chemistry/Computer Science, Mathematics/Agriculture. PSO4: describe the scientific theories and its relevance in present context. PSO5: enhance experimental skill through experiments in diverse fields. PSO6: enhance analytical, technical and practical skills.

COURSE OUTCOMES (COs)

SEMESTER-I		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
0002/0092	Punjabi/History and Culture of Punjab	Punjabi (ਕਾਵਿ -ਸੁਮੇਲ) CO1: ਕਵੀ ਭਾਈ ਵੀਰ ਸਿੰਘ- ਦੀਆਂ 'ਕਵਿਤਾ' ਪੜ੍ਹਾਕੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਕੁਦਰਤ ਦੀ ਖੂਬਸੂਰਤੀ, ਰੱਬੀ ਪਿਆਰ ਤੇ ਜ਼ਿੰਦਗੀ ਦੇ ਰੱਝਵਿਆਂ ਚੋਂ ਖੁਸੀ ਲੈਣ ਪ੍ਰਤੀ ਅਨੇਕਾਂ ਵਿਧੀਆਂ ਸਮਝਾਉ_ਣੀਆਂ। CO2: ਪ੍ਰੋ: ਪੂਰਨ ਸਿੰਘ:- ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀ ਕੁਦਰਤ, ਕਿਸਾਨ, ਮਜ਼ਦੂਰ ਤੇ ਮਾਂ- ਬੋਲੀ ਦੀ ਅਹਿਮੀਅਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣੀ। CO3: ਧਨੀ ਰਾਮ ਚਾਤ੍ਰਿਕ- ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਤੇ ਦੇਸ਼ ਭਗਤੀ ਨਾਲ ਜੋੜਨ ਦੀ ਤਜਬੀਜ਼ ਬਾਰੇ ਵਿਦਿਆਰਥੀਆਂ ਨਾਲ ਸਾਂਝ ਪਾਉਦੀ ਹੈ। CO4: ਪ੍ਰੋ:ਮੋਹਨ ਸਿੰਘ ਦੀ ਕਵਿਤਾ ਰਾਹੀਂ ਮਾਂ ਬੋਲੀ, ਮਾਂ ਦੇ ਪਿਆਰ ਤੇ ਦੇਸ਼ ਦੀ ਰਾਖੀ ਲਈ ਸਿਪਾਹੀ ਦੇ ਮਨੋਭਾਵਾਂ ਨੂੰ ਬਿਆਨ ਕਰਦੇ ਹੋਏ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮਾਂ ਬੋਲੀ ਦੀ ਅਹਿਮੀਅਤ ਬਾਰੇ ਦੱਸਿਆ ਹੈ। CO5: ਬਾਬਾ ਬਲਵੰਤ ਸਿੰਘ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਜ਼ਿੰਦਗੀ ਦੇ ਹਾਲਤਾਂ ਨਾਲ ਜੂਝਣ ਤੇ ਚੜ੍ਹਦੀ ਕਲਾ ਵਿੱਚ ਰਹਿਣ ਦੀ ਪ੍ਰੇਰਨਾ

		ਮਿਲਦੀ ਹੈ। CO6: ਸਿਵ ਕੁਮਾਰ ਬਟਾਲਵੀ ਦੀ ਕਵਿਤਾਂ ' ਬੇਸ਼ੱਕ ਬ੍ਰਿਹਾ ਦੀ ਕਵਿਤਾ ਹੈ ਪਰ ਜਿਉਣ ਦੀ ਪ੍ਰੇਰਨਾ ਤੇ ਅਸਲੀਅਤ ਤੋਂ ਜਾਣੂੰ ਕਰਵਾਉਦੀ ਹੈ। CO7: ਸੁਰਜੀਤ ਪਾਤਰ ਦੀ ਕਵਿਤਾ ' ਜ਼ਿੰਦਗੀ ਦੀ ਅਸਲੀਅਤ ਨੂੰ ਬੜੀ ਸਮਸ਼ਟਤਾ ਨਾਲ ਪ੍ਰਗਟ ਕਰਦੀ ਹੈ ਤੇ ਵਿਦਿਆਰਥੀ ਦੀ ਸੋਚ ਨੂੰ ਉਤਸ਼ਾਹਤ ਕਰਦੀ ਹੈ। CO8: ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ ਦੀ ਕਵਿਤਾ ਦੇਸ਼ ਵੰਡ ਤੋਂ ਲੈ ਕੇ ਰਾਜਨੀਤੀ ਦੀਆਂ ਉਲਝਵਾਂ ਨੂੰ ਖੋਲ ਦੀ ਕਵਿਤਾ ਹੈ। CO9: ਐਸ.ਐਸ ਸੀਮਾ ਦੀ ਕਵਿਤਾ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਉਸਾਰੂ ਤੇ ਮੌਜੂਦ ਹਾਲਾਤ ਨਾਲ ਲੋਹਾ ਲੈਣ ਦੀ ਭਾਵਨਾ ਨਾਲ ਭਰਪੂਰ ਕਵਿਤਾ ਹੈ। Translation into English CO1: By teaching 'poetry' -Sumail Kavi Bhai Vir Singh- to the students learn to appreciate nature. CO2: Through the poems of Prof. Puran Singh, to give information about the importance of Nature, farmers, workers, and mother tongue CO3: Punjabi culture and patriotism through the poems of Dhani Ram Chatrik Communicates with students about the practice of connecting with their mother tongue. CO4: Prof. Mohan Singh's poem, Narrates the sentiments of a soldier CO6: The poems of Shiv Kumar Batalvi are of course the poetry of Briha . CO7: Surjit Patar's poem 'The reality of life with great clarity to Expresses and encourages the student's thinking. CO8: Amrita Pritam's poem explores the problems of politics from the partition of the country CO9: The poem of S.S. Seema makes the students aware of the current situation. History and Culture of Punjab:

		CO1: describe about the first civilization of India i.e. Indus Valley Civilization. CO2: describe about Vedic age, Growth of Jainism and Buddhism in 6th century B.C. in Punjab. CO3: state about the society and culture under Maurayas and Guptas. CO4: explain about Cultural Reorientation and development of Sufism. CO5: describe about the youngest religion of the world i.e. Sikhism, from Shri Guru Nanak Dev Ji to all ten Gurus. CO6: state about martyrdoms in Sikhism. CO7: explain about institutional development in Sikhism, New policy adopted by Shri Guru Hargobind Sahib Ji and Creation of Khalsa. CO8: describe about changes in society in the 18th century i,e. Social unrest, emergence of misls and institutions: Rakhi, Gurmata, Dal Khalsa. CO9: state about society and culture of the people under Maharaja Ranjit Singh. CO10: describe the physical geographical map of Punjab.
0046	Physics (Mechanics-I)	After the course, the students will be able to: CO1: discuss the various coordinate systems and study two and three-dimensional coordinate systems. CO2: explain various physical quantities and know the potential and kinetic energy of particles. CO3: explain the various conservation laws and symmetries of space and time. CO4: explain various forces in nature. CO5: explain about motion under central force and understand Kepler's laws. CO6: describe elastic collision in lab and C.M. system and study Rutherford scattering.

0047	(Vibrations, Waves and EM Theory-I)	CO1: explain SHM and its energy to know about the pendulum and oscillations. CO2: describe Lissajous curves by graphical and analytical method. CO3: explain the types of oscillators and study damping and various damping coefficients. CO4: describe the forced mechanical and electrical oscillations and study their transient and steady state behaviors. CO5: explain the power and its variation with driving force frequency along with quality factor and Bandwidth. CO6: state about Stiffness, Coupled Oscillators and study the normal co-ordinate and modes of vibration.
0048	(Electricity and Magnetism-I)	CO1: describe about gradient, Divergence, Curl and their physical significance. CO2: explain about Gauss's divergence theorem, Stoke's theorem and Green's theorem in a plane. CO3: describe about Coulomb's and Gauss's law along with their applications. CO4: explain about electric potential due to a monopole, dipole and quadrupole and acquaint with Poisson's, Laplace's equations and the method of electrical images. CO5: explain about Polarization of matter and Atomic Polarizability. CO6: explain about Gauss's law in dielectrics and understand electric displacement vector.
0049	Chemistry (Inorganic Chemistry A)	After the course, the students will be able to: CO1: give details of Atomic Structure with special reference to de Broglie matter waves, Heisenberg

		uncertainty principle, atomic orbitals, quantum numbers, shapes of orbitals. CO2: recognize electronic configurations of the elements and ions and related principles. CO3: define the arrangement of elements in the periodic table and the periodic properties. CO4: explain Chemistry of Noble Gases and s-Block Elements. CO5: identify the nature of chemical bond as well as the existence of special types of compounds through weak chemical forces and related concepts.
0050	**(**Organic Chemistry A)	Students will be able to: CO1: explain the nature of bonding involved in organic compounds. CO2: describe the types and mechanisms of reactions in organic chemistry. CO3: predict about reaction intermediates involved in organic reactions. CO4: explain about different techniques used or determination of reaction mechanism. CO5: express the chemistry of Alkanes and Cycloalkanes. CO6: illustrate basics of stereochemistry such as types of representation of 3-D structures, enantiomers, diastereoisomers, racemic mixtures, resolution and geometrical isomerism and conformational isomerism.
0051	(Physical Chemistry A)	Students will be able to: CO1: analyze mathematical Concepts and evaluation of Analytical Data. CO2: explain about kinetic theory of gases, deviation from ideal behavior, Van der Waal's equation. CO3: express critical phenomena and molecular velocities of Gaseous state.

	(Laboratory Practicals)	CO4: explain the kinetics of chemical reactions including their factors affecting their rate. CO5: describe the importance and limitations of collision theory and transition state theory. CO6: explain about Homogenous catalysis, acid base and enzyme catalysis including their mechanism. Students will be able to: CO1: qualitatively analyze, separate and identify the different cations and anions from Groups I, II, III, IV, V and VI present in a salt. CO2: explain about quantitative analysis involving volumetric titrations like acid-base, KMnO4 and K2Cr2O7. CO3: determinate strength of Na2Co3 solution by titrating it against a standard solution of HCl. CO4: determinate molarity of KMnO4 solution by titrating it against a standard solution of Oxalic acid. CO5: standarise the given K2Cr2O7 solution by titrating it against a standard solution of Mohr's Salt.
MAT-0043	Mathematics (Plane Geometry)	After completing the course, students will be able to: CO1: analyze the concept of transformation of axes in two dimensions. CO2: describe the pair of straight lines, condition of parallelism and perpendicularity, joint equation of angle bisectors. CO3: solve the problems related to the concepts of circle and properties of circle, chord of contact, radical axis, co- axial family of circles, limiting points. CO4: discriminate about tangents, normals and their properties.

		CO5: calculate the properties of ellipse, Conjugate diameter of ellipse, hyperbola, asymptote and rectangular hyperbola. CO6: identify conics in general second degree equations. CO7: examine the general equations of second degree, tracing of ellipse, hyperbola and parabola and also get to know about the conics. They get to know whether a given second degree equation is a hyperbola or ellipse or parabola.
MAT-0044	(Calculus-I)	After completing the course, students will be able to: CO1: describe fundamental concepts of real numbers. CO2: solve the problems of Indeterminate forms and L'Hospital's Rule to find their limits CO3: verify the value of the limit of a function at a point using the definition of the limit. CO4: examine whether function is continuous or not, understand the consequences of the intermediate value theorem for continuous functions. CO5: apply various general Theorems like Rolle's Theorem, Lagrange's theorem, Cauchy Mean Value theorem, Taylor's theorem and their geometrical interpretation. CO6: analyze Hyperbolic and inverse hyperbolic functions, Successive differentiation and Leibnitz's theorem.
MAT-0045	(Trignometry and Matrices)	After completing the course, students will be able to: CO1: operate methods to solve the equations CO2: recognize consistent and inconsistent system of linear equations by using row and column echelon form of the augmented matrix. CO3: solve linear equation using matrix method.

		CO4: apply Cayley Hamilton Theorem for finding the inverse of matrix. CO5: describe rank, Linear independence and dependence of matrices. CO6: appraise the importance of roots of real and complex polynomials. CO7: apply the applications of De Moivre's theorem to solve numerical problems. CO8: check diagonalisibility of matrices by finding Eigen values and vectors. CO9: calculate Hermitian and skew Hermitian matrices and their properties.
	Computer Science	
CS01	(Computer Fundamentals)	The students after completing this course, will be able to: CO1: identify the components of a personal computer system. CO2: do conversions in basic computer terminology. CO3: describe the basic hardware peripherals. CO4: describe the memory management. CO5: state the different types of software. CO6: explain about the operating system and its types.
CS02	(PC Software)	The students after completing this course, will be able to: CO1: solve common problems related to operating systems. CO2: use word processing, Spreadsheet and Presentation Graphics Software skills. CO3: compose, format and edit a word document, Excel, Presentation Slides.
PCS01	(Practical Based on Paper CS02)	The students after completing this course, will be able to: CO1: state the working of Input and output devices. CO2: run Internal and external DOS commands. CO3: create Word, Excel, Presentation files and apply

		various commands on it.
0015	Agriculture (Basics of Agricultural Botany and Forestry	After the completion of the course, the students will be able to: CO1: explain about the plant morphology - root, stem, leaf -their types and modifications. CO2: explain about the Inflorescence - types and classification. CO3: explain about flower parts and their functions. CO4: describe about fruit - Types and classification. CO5: state about pollination - types, significance, emasculation, techniques, mode of reproduction and their significance Life cycle of a typical angiosperm. CO6: get skilled in plant breeding, introduction to self Incompatibility. CO7: explain about the cultivation practices including Soil requirements, water requirements, and improved varieties of the region for: Cereals (wheat, rice, maize), Fibres (cotton, Jute), oil Crops (sarson, soyabean), Fruits (mango, grapes, citrus, sapota). CO8: explain the importance of forests, important forest trees of India and status of forestry in Punjab, its significance. Raising of Nurseries for forestry. Social forestry: Definition, concept and its significance.
SEMESTER-II		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
0102/0192	Punjabi/History and Culture of Punjab	Punjabi (12 ਕਹਾਣੀਆਂ ਦਾ ਸੁਮੇਲ) CO1: ਕਥਾ – ਕਿਤਾਬ': ਪਹਿਲੀ ਕਹਾਣੀ 'ਪੁਰਤਾ ਪਾਂਧੀ' ਗੁਰਬਖਸ਼ ਸਿੰਘ ਪ੍ਰੀਤ ਲੜੀ ਦੁਆਰਾ ਲਿਖੀ ਗਈ ਹੈ। ਇਸ ਵਿੱਚ ਮੇਜਰ ਸਾਹਿਬ ਦੇ ਸੁਭਾਅ ਦੇ ਸੁਲੀਕੇ, ਬੋਲ ਚਾਲ ਤੇ ਦੂਸਰਿਆਂ ਦੇ ਕੰਮ ਆਉਣ ਬਾਰੇ ਦੱਸਿਆ ਹੈ। CO2: ਪ੍ਰਿ: ਸੁਜਾਨ ਸਿੰਘ ਦੀ ਕਹਾਣੀ 'ਬਾਗਾਂ ਦਾ ਰਾਖਾ' ਕਹਾਣੀ

		ਵਿੱਚ ਕਵਿਤਾ ਕਾਮਿਆ ਦੀ ਅਪਮਾਨ ਜਨਕ ਸਥਿਤੀ ਦਾ ਵਰਣਨ ਕੀਤਾ ਹੈ। CO3: ਕੁਲਵੰਤ ਸਿੰਘ ਵਿਰਕ ਦੀ ਕਹਾਣੀ ' ਧਰਤੀ ਹੇਠਲਾ ਬਲਦ। ਮਾਝੇ ਦੇ ਲੋਕ ਮੁਸੀਬਤਾਂ' ਭਰੀ ਜ਼ਿੰਦਗੀ ਵਿੱਚ ਜ਼ਿੰਦਗੀ ਨੂੰ ਜਿਉਣਾ ਜਾਣਦੇ ਹਨ। CO4: ਸੁਖਵੰਤ ਕੌਰ ਮਾਨ ਦੀ ਕਹਾਣੀ 'ਚੱਟੂ' 1947 ਦੀ ਭਾਰਤ ਪਾਕ ਵੰਡ ਦੇ ਉ ਜਾੜੇ ਦੇ ਦੁੱਖਾਂ ਤਕਲੀਫਾਂ ਦਾ ਵਰਨਣ ਕੀਤਾ ਹੈ। CO5: ਗੁਲਜ਼ਾਰ ਸਿੰਘ ਸੰਧੂ ਦੀ ਕਹਾਣੀ ਠੱਗੀ' ਵਿੱਚ ਮੌਤ ਦੀ ਉਡੀਕ ਰਹੇ ਨਿਰਾਸ਼ ਮਨੁੱਖ ਦੁਆਰਾ ਇਸ ਨੂੰ ਸਮੂਹਿਕ ਹੋਣੀ ਵਜੋਂ ਭੋਗਣ ਵਿੱਚ ਤੱਸਲੀ ਅਨੁਭਵ ਕਰਨਾ ਹੈ। CO6: ਮੋਹਣ ਭੰਡਾਰੀ ਦੀ ਕਹਾਣੀ 'ਘੋਟਣਾ' ਨਵੀ ਉਦਯੋਗਿਕ ਸਭਿਅਤਾ ਦੇ ਲਿਹਾਜੇ ਹੋਏ ਹੁਨਰਮਦ ਮਨੁੱਖ ਦੀ ਪੀੜ ਤੇ ਲੋਚਾ ਦਾ ਕਰੁਣਾਮਈ ਚਿਤਰਨ ਹੈ। CO7: 'ਬੱਚੇ ਦੀ ਸ਼ਰਾਰਤ' ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼ ਦੀ ਰਚਨਾ ਹੈ। ਔਰਤ ਮਨ ਦੇ ਵੇਗਾਂ, ਤਰੰਗਾਂ, ਇਛਾਵਾਂ ਦੁਵਿਧਾਵਾਂ, ਚਲਾਕੀ, ਸਿਆਣਪਾਂ ਤੇ ਖੁਆਰੀਆਂ ਨੂੰ ਵਿਅੰਗਮਈ ਅੰਦਾਜ਼ ਵਿੱਚ ਪੇਸ਼ ਕੀਤਾ ਹੈ। CO8:. 'ਵਰਿਆਮ ਸੰਧੂ' ਦੀ ਕਹਾਣੀ ' ਚੌਥੀ ਕੂਟ' ਪੰਜਾਬ ਦੇ ਅੱਜ ਕੱਲ ਦੇ ਵਾਤਾਵਰਨ ਨੂੰ ਵਿਸ਼ਾ ਬਣਾਇਆ ਹੈ। CO9: ਜਗਜੀਤ ਬਰਾੜ ਦੀ ਕਹਾਣੀ' ਚਿੱਟੀ ਕਬੂਤਰੀ' ਦਾ ਵਿਸ਼ਾ ਗੋਰੀ ਨਸਲ ਦੀ ਇਸਤਰੀ ਪ੍ਰਤੀ ਆਕਾਸ਼ਣ, ਦੋਗਲਾ ਰੱਵਈਆ ਤੇ ਨੀਵੀ ਸੋਚ ਹੈ। CO10: ਕਿਰਪਾਲ ਕਜ਼ਾਕ ਦੀ ਕਹਾਣੀ 'ਗੁੰਮਸ਼ੁਦਾ' ਵਿੱਚ ਕਾਮ ਰੁਚੀਆਂ ਨਾਲ ਕੀਤੀ ਖਿਲਵਾੜ ਕਾਰਨ ਮਨੁੱਖੀ ਜੀਵਨ ਵਿੱਚ ਮਚੀ ਉਥਲ- ਪੁਥਲ ਹੈ। CO11: ਜਸਵਿੰਦਰ ਸਿੰਘ ਦੀ ਰਚਨਾਂ 'ਖੂਹ-ਖਾਤੇ' ਵਿੱਚ ਵਰਤਮਾਨ ਸ਼ਹਿਰੀ ਮਨੁੱਖ ਦੇ ਦੂਜਿਆਂ ਜਿਥੋਂ ਤੱਕ ਆਪਣਿਆਂ ਪ੍ਰਤੀ ਸੁਆਰਥੀ, ਕੋਰੇ, ਮੌਕਾ ਪ੍ਰਸਤ, ਸ਼ੱਕੀ ਤੇ ਅਕ੍ਰਿਤਘਣ ਰਵੱਈਏ ਦੇ ਦੀ ਝਲਕ ਪੇਸ਼ ਕਰਦੀ ਹੈ। CO12: ਬਲਵਿੰਦਰ ਗਰੇਵਾਲ ਦੀ ਰਚਨਾਂ ਮੋਹ- ਪਾਸ ਦਾ ਵਿਸ਼ਾ ਸਮਾਜ ਵਿੱਚ ਬਦਲੇਖੋਰੀਆਂ ਅਤੇ ਸੁਆਰਥ ਵਿੱਚ ਫਸੇ ਲੋਕਾਂ ਦੀਆਂ ਸੋਚਾਂ, ਸਾਜ਼ਿਸਾਂ ਤੇ ਕਾਰਜਗਾਰੀਆਂ ਨੂੰ ਵਿਦਿਆਰਥੀਆਂ ਸਾਹਮਣੇ ਪੇਸ਼ ਕਰਦਾ ਹੈ। ਵਿਆਕਰਨ: ਮੁਹਾਵਰੇ, ਪ੍ਰੈਸੀ ਰਚਨਾ, ਲੇਖ ਰਚਨਾ, ਧੁਨੀ ਗ੍ਰਾਮ, ਪਰਿਭਾਸ਼ਾ, ਖੰਡੀ ਤੇ ਅਖੰਡੀ ਧੁਨੀਆਂ ਧੁਨੀਆਂ, ਲਗਾਮਾਤਰਾਵਾਂਦੀ ਢੁੱਕਵੀ ਜਾਣਕਾਰੀ ਦੇਣੀ।ਵਿਆਕਰਨ ਹਰੇਕ ਭਾਸ਼ਾ ਦੀ ਰੀੜ ਦੀ ਹੱਡੀ ਹੁੰ ਦੀ ਹੈ। ਭਾਸ਼ਾ ਸਮਝਣ ਲਈ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਇਸ ਦਾ ਗਿਆਨ ਜਰੂਰੀ ਹੈ ਜੀ। Translated into English CO1: Katha - Kitab': First story 'Puhta Pandhi' by Gurbaksh Singh portrays major sahib’s character. CO2: Kavita Kamiya in the story 'Baagan Da Rakha' by Sujan Singh described a humiliating situation.

		CO3: Kulwant Singh Virak's story 'The Bull under the Earth' tell the people of Punjab know how to live life to the fullest. CO4: Sukhwant Kaur Mann's story 'Chattu' is about the sufferings of the 1947 partition of India and Pakistan. CO5: In Gulzar Singh Sandhu's Kahani Thaggi' is a despondent man waiting for death. CO6: Mohan Bhandari's story 'Ghotna' was brought about by the new industrial civilization CO7: 'Bachche Di Shararat' is a work of Prem Prakash that presents the experience in a satirical way. CO8: The story of 'Varyam Sandhu' 'Chauthi Koot' to presents the period of terrorism Punjab. CO9: The subject of Jagjit Brar's story 'Chitti Kabutri' is about a white woman. CO10: Kirpal Kazak's story 'Gumushoda' plays with lust due to the upheaval in human life. CO11: Jaswinder Singh's work 'Khuh-Khate' presents urban man's problems CO12: Balvinder Grewal's works Moh-Pas' theme is revenge in society and the thoughts, plots, and activities of people trapped in selfishness. History and Culture of Punjab Students, after completing this course, will be able to: CO1: describe about Colonial Rule in Punjab i.e. Annexation of Punjab Board of Administration CO2: state about the western education introduced by Britishers. CO3: explain about Agriculture development. CO4: describe about early socio-religious reform in all

		religions. CO5: describe about Socio-Religious Reform Movement i.e. Arya Samaj, Singh Sabhas and Ahmadiyas. CO6: state about Development of Press and Literature. CO7: describe about the emergence of political consciousness. CO8: describe about the Gurdwara Reform movement i.e Major marchas, Activities of Babbar Akalis. CO9: explain about the freedom struggle i.e. all Monuments. CO10: explain about the partition of Punjab and its aftermath.
393	Environmental and Road Safety Education	After the course, the students will be able to: CO1: describe about plant and animal distribution patterns in relation to biotic and biotic factors. CO2: explain about essential characteristics underlying Natural ecosystems. CO3: describe about the model population and community-level dynamics. CO4: interpret and present ecological results. CO5: identify Global environmental problems. CO6: explain about Social issues and Environment issue. CO7: describe the significance of road safety. CO8: state about Police-Public relationship, Traffic rule and Traffic signs. CO9: describe about Protective provisions against domestic and sexual violence. CO10: explain about the Protective laws for women. CO11: explain about the problem of drugs abuse. CO12: describe about the drugs and its effects. CO13: describe about the prevention and management of drug abuse.
0147	Physics (Mechanics-II)	After the course, the students will be able to:

		CO1: explain about the Rigid Body Motion and Euler's equations. CO2: describe about Inertial and Non-Inertial Frames. CO3: explain about Centrifugal and Coriolis force due to rotation of earth. CO4: explain the understand postulates of special theory of Relativity and Lorentz transformation equations. CO5: explain about the variation of mass with velocity and relativistic energy and momentum. CO6: explain about the concept of Minkowski space and four vector formulation.
0148	(Vibrations, Waves and EM Theory-II)	CO1: describe about the types of waves and the wave equation with its solution. CO2: explain about Impedance of a string and to study the matching of Impedances and its uses. CO3: explain about the reflection and transmission coefficients of amplitude and energy. CO4: build a mathematical background for the Maxwell's equations and their significance. CO5: explain about the electromagnetic waves and study the Impedance of a medium to the EM waves. CO6: use the Maxwell's equations in deriving various expression for normal and oblique incidence.
0149	(Electricity and Magnetism-II)	CO1: explain about the microscopic form of Ohm's law and its failure. CO2: explain about invariance of charge and derive the transformation equations of electric field. CO3: describe the behaviour of various substances in magnetic field. CO4: describe the Biot Savart's law and its applications. CO5: find the divergence and curl of magnetic field and study vector potential. CO6: familiarize with Faraday's laws of EM induction and understand self inductance and mutual

		inductance.
0151	Chemistry (Inorganic Chemistry-B)	Students will be able to: CO1: describe different Ionic structures such as NaCl, Zinc blende, Wurtzite, CaF2 and antiflourite and use their properties to corelate other inorganic molecules. CO2: distinguish ionic and covalent bond using Fajan's rule. CO3: express the diagonal relationship between alkali and alkaline earth metals. CO4: explain the chemistry of hydrides of boron-diborane and higher boranes, borazine, borohydrides, fullerenes, carbides, fluorocarbons. CO5: discuss the comparative study of groups 15-17 elements along with properties and preparation of halogens, interhalogens and polyhalides.
0152	(Organic Chemistry-B)	Students will be able to: CO1: explain the nomenclature, methods of formation, physical and chemical properties of alkenes and cycloalkenes (with mechanism of selected reactions). CO2: explain Saytzeff's Rule, Hofmann elimination, Markownikoff's and anti- Markownikoff's rule. CO3: recognize the nomenclature, methods of formation, physical and chemical properties of Dienes and Alkynes (with mechanism of selected reactions). CO4: discuss the concepts Arenes and Aromaticity. CO5: explain in detail about Aromatic electrophilic substitution reactions. CO6: memorize the nomenclature, methods of formation, physical and chemical properties of Alkyl and Aryl Halides (with mechanism of selected reactions).
0153	(Physical Chemistry-	

	B) (Laboratory Practicals)	Students will be able to: CO1: recognize Fundamental concepts of Thermodynamics. CO2: explain the First Law of Thermodynamics and related concepts like Heat capacity, Joule's Law-Joule-Thomson coefficient, and inversion temperature, Calculations of w, q, dU & dH for the expansion of ideal gases. CO3: memorize all concepts of Thermochemistry. CO4: recognize definition, classification, preparation and all properties of colloids. CO5: explain chemistry of solutions, dilute Solutions and colligative properties. Students will be able to: CO1: explain the essential laboratory skills required for organic synthesis by performing synthesis of important organic compounds. CO2: describe different purification techniques in organic chemistry like recrystallization and distillation. CO3: prepare the solution of the desired concentration and the desired volume. CO4: determine Refractive indices, Viscosity and Surface Tension of samples. CO5: define waste management of the laboratory.
MAT-0145	Mathematics (Solid Geometry)	After completing the course, students will be able to: CO1: describe the concept of transformation of axes in three dimensions. CO2: analyze Sphere and its properties, power of point with respect to Sphere, coaxial family of spheres, limiting points. CO3: differentiate Cylinder, Ellipse, Parabola, Hyperbolic Cylinder and Enveloping cylinder and

		their various properties. CO4: describe Cone, homogeneous equation of Second degree in three variables, Right Circular and Enveloping cones. CO5: solve problems regarding Paraboloids, plane sections of conicoids, generating lines and reduction of second degree equations.
MAT-0146	(Calculus-II)	After completing the course, students will be able to: CO1: demonstrate concepts of Concavity, Convexity, Points of Inflexion and Asymptotes. CO2: analyze Curvature and Radius of Curvature in Polar and Cartesian coordinates. CO3: solve problems regarding the concept of Evolute, Involute and Chord of Curvature. CO4: analyze and find Integral of Hyperbolic and Inverse Hyperbolic Functions. CO5: find out the integration of functions using Trapezoidal, Simpson and Prismoidal rules. CO6: differentiate the concepts of Summation of Series, Quadrature, Rectification, Volumes and Surfaces of Solids of Revolution.
MAT-0147	(Theory of Equations)	After completing the course, students will be able to: CO1: apply Euclid Algorithm, synthetic division. CO2: describe the relationship between Roots and Coefficients of Equations using Virge Vieta method. CO3: describe the concept of Transformation of Matrices, calculate number of Real and Complex roots using Descarte's rule of signs. CO4: find the Solutions of Cubic equations by using Cardon Method and Biquadratic equations by using Descarte and Ferrari method.

CS03	Computer Science (Operating System Concepts)	The students after completing this course, will be able to: CO1: explain how Operating System is important for Computer System. CO2: describe the different types of Operating System and their services. CO3: explain the process management, concurrent processes and threads. CO4: handle deadlock and work on it. CO5: describe about Memory Management: Logical and Physical memory, Segmentation, various paging algorithms.
CS04	(C Programming)	The students after completing this course, will be able to: CO1: explain the basic terminology used in computer Programming. CO2: write, compile and debug programs in C language CO3: use different data types in a computer program CO4: design programs involving decision structures, loops, arrays and strings. CO5: describe about the various types of Functions and String handling mechanisms. CO6: explain the difference between call by value and call by reference.
PCS02	(Practical Based on Paper CS04)	The students after completing this course, will be able to: CO1: read, understand and trace the execution of programs written in C language. CO2: implement programs using operators, data types, Decision, Loop, Case Control Statements. CO3: design programs involving arrays, strings, pointers, functions and implement the dynamics of memory by the use of pointers
0115	Agriculture (Agricultural Economics and	After the course, the students will be able to:

	Agronomy)	CO1: explain about agricultural banking, agricultural loans – Its various types, repayment mode, form filling for agricultural loans. CO2: explain about National policy for agricultural loans. CO3: state about the agriculture credit cards. CO4: state the fundamentals of land measurements and land revenue. CO5: explain about various legal aspects of import and export of raw crop and crop products. CO6: explain about quarantine laws. CO7: describe the fundamentals of agricultural Economics, Psychological pressure on farmer and villagers of different classes. CO8: get skilled in the methods of storage of vegetables, fruits, grains at local and large level. Vegetable and fruit preservation. CO9: read about soil types, management, improvement and amendments. CO10: explain about the soil testing. Fundamental of fertilizers and manures, Important fertilizers and their uses and Nitrogen fixation.
SEMESTER-III		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
0202	English	After the course, the students will be able to: CO1: explain the different aspects and forms of modern communication. CO2: get skilled in listening, speaking, reading and writing. CO3: improve their vocabulary. CO4: build their confidence for participation in placement drives. CO5: show better performance in English language testing examinations like TOEFL, IELTS

0247	Physics (Statistical Physics and Thermodynamics-I)	After the course, the students will be able to: CO1: describe the basic ideas of statistical physics and probability. CO2: explain the distribution of various particles in various compartments of equal size. CO3: describe about deviation from the state of maximum probability and distribution of n particles in k compartments of unequal size. CO4: explain the three kinds of statistics: MB, BE & FD and their distribution laws. CO5: explain the Planck's Law, Wein's displacement law, Stefan's law and the concept of Fermi Energy. CO6: explain the concept of most probable, average and rms speeds of molecules and their mathematical expression.
0248	(Optics and Laser-I)	CO1: explain about Optics and a knowledge of the interference of light. CO2: explain about the interference fringes by studying interference by wavefront and amplitude division. CO3: explain about Michelson's & Fabry-Perot interferometer with their applications. CO4: describe about Diffraction and the types of Diffraction alongwith its use for rectagular and circular apertures. CO5: explain the resolving power of optical instruments and their mathematical expression. CO6: explain about polarization of light and study about polarised, elliptically and circularly polarised light.
0249	(Quantum Physics-I)	CO1: explain the fundamental postulates of quantum mechanics. CO2: explain Planck's formula of black body radiation. CO3: describe the wave function and Schrodinger's equation.

		CO4: solve and understand the problems in one and three dimensions. CO5: explain the Quantum theory of hydrogen atom in detail along with its energy levels and eigen functions. CO6: explain the various quantum numbers and their applications.
0250 0251	Chemistry (Inorganic Chemistry-A) Organic Chemistry-A	After the course, the students can: CO1: explain the chemistry and geometry of elements of first transition series CO2: explain the details of chemistry of elements of second and third transition series along with their magnetic behaviour, spectral properties and stereochemistry. CO3: describe all concepts, properties and uses of co-ordination compounds. CO4: express details of Werner's coordination theory and Valence bond theory. Students will be able to: CO1: memorize the nomenclature, methods of formation, physical and chemical properties of Alcohols and Phenols. CO2: describe mechanisms of Fries rearrangement, Claisen rearrangement, Gatterman synthesis and Reimer-Tiemann reaction. CO3: explain the nomenclature, methods of formation, physical and chemical properties of Aldehydes and Ketones. CO4: describe mechanisms of benzoin, aldol, Perkin, Knoevenagel condensations, Wittig and Mannich reaction. CO5: explain in detail about use of acetals as protecting group, Oxidation of aldehydes, Baeyer-Villiger

0252	Physical Chemistry-A	oxidation of ketones, Cannizzaro reaction, MPV, Clemmensen, Wolff-Kishner, LiAIH4 and NaBH4 reductions. CO6: discuss the nomenclature, methods of formation, physical and chemical properties of Carboxylic acids. Students will be able to: CO1: explain about qualitative description of Intermolecular forces, structure of liquids. CO2: discuss the chemistry of Liquid Crystals in detail. CO3: recognize the concepts of chemical equilibrium in terms of equilibrium constant, various laws and concepts involved, reaction isotherm and Clausius-Claperyron equation. CO4: memorize Reaction isotherm and Reaction isochore-Clapeyron equation, law of mass of mass action and Le -Chatelier's principle. CO5: explain all concepts of second and third Law of Thermodynamics
	(Laboratory Practicals)	Students will be able to: CO1: determine Estimation of calcium content, hardness of water, ferrous and ferric and copper using volumetric analysis. CO2: analyse Cu as CuSCN and Ni as Ni (dimethylgyoxime) using Gravimetric Analysis. CO3: determine the solubility of benzoic acid at different temperatures and to determine ΔH of the dissolution process. CO4: determine the enthalpy of neutralization of a weak acid/weak base versus strong base/strong acid. CO5: explain the enthalpy of ionization of the weak acid/weak base. CO6: find pH of a Buffer solution and determination of ionization constant of a weak acid.

MAT-0241	Mathematics (Advanced Calculus-I)	After completing the course, students will be able to: CO1: solve problems of Limit and Continuity of functions of Two or More Variables. CO2: describe the concept of Partial differentiation, derivability of real valued functions of two or three variables. CO3: differentiate Schwarz and Young's theorem and their applicability, statements of Inverse and Implicit function theorems and applications. CO4: practice the concept of differentiation, gradient, curl, divergence and its applications. CO5: apply Euler theorem, Taylor theorem, Jacobians, Envelopes and Evolutes. CO6: solve problems of Maximum, Minimum and saddle point of functions of two and three variables and Lagrange's method to solve questions related to this topic
MAT-0242	(Differential Equations I)	After completing the course, Student will be able to: CO1: differentiate and find solutions of first and higher order differential equations. CO2: examine the techniques for obtaining solutions to ordinary differential equations. CO3: investigate the qualitative and quantitative behavior of solutions of system of differential equations. CO4: analyze the concept of simultaneous differential equations and orthogonality. CO5: calculate by using methods of solving differential equations using variation of parameters, reduction of order. CO6: apply the concept of solving and number of problems related to natural phenomenon,

MAT-0243	(Statics)	engineering and many other situations. CO7: describe the concept of Charpit general method of solutions. After completing the course, students will be able to: CO1: describe and apply the concept of composition and resolution of Concurrent Forces, Parallelogram and Triangle law of forces, Lami's theorem, Components of Forces and its applications in daily life. CO2: analyze the concepts of equilibrium conditions for coplanar concurrent forces, smooth inclined planes. CO3: explain the concept of Parallel forces and its types (parallel like and unlike forces) and resultant of these forces. CO4: solve problems related to Moment, Couple of forces, reduction of coplanar forces to Single force and Couple. CO5: describe Friction, Laws of Friction, problems related to Ladders, Rods, Spheres and Circle.
CS05	Computer Science (Computer Organisation)	The students after completing this course, will be able to: CO1: explain the structure, function and characteristics of computer systems. CO2: identify, understand and apply different number systems and codes. CO3: describe the basic building block concepts in combinatorial logic design, sequential building block, Microinstructions. CO4: state the concept of Microinstructions, Microprocessor and assembly language in detail.
CS06	(Object Oriented Programming Using	The students after completing this course, will be able

PCS03	C++) (Practical Based on Paper CS06)	to: CO1: differentiate between object oriented programming and procedural oriented language and data types in C++. CO2: C++ features such as composition of objects, constructor, destructor, Operator overloading, inheritance, Polymorphism etc. CO3: Students will understand the concept of Virtual and pure virtual functions. The students after completing this course, will be able to: CO1: make programs on the concept of Classes and objects, access specifiers. CO2: do programming on declaring member function inside and outside class, static and friend functions. CO3: design programs on Constructor and destructor, Inheritance with its types, Private, public protected, Concept of polymorphism, operator overloading, method overloading etc.
0216	Agriculture (Agricultural Diversification and Machinery)	After the completion of the course, the students will be able to: CO1: aid on works such as dairy, poultry, fishery, mushroom cultivation, animal husbandry, bee keeping. CO2: maintain grassy lawns and flower beds. CO3: raise winter and summer ornamental flowers (rose, gladioli, dahlias, dianthus, and foliage plants). CO4: get skills of landscape of an educational institute, factory, panchayat lands and office buildings. CO5: describe about medicinal, aromatic and spice plants. CO6: grow non-conventional plants.

		CO7: explain about Gentically Modified crops. CO8: describe the fundamentals of land measurements and land revenue. CO9: describe about the important parts of the tractor, combine, thresher and their maintenance. CO10: explain about various agricultural tools and implements.
SEMESTER-IV		
0302	English	After the course, the students will be able to: CO1: use English as a language in its various textual forms and to become thoughtful, imaginative and effective communicators in a changing society. CO2: write an effective business document (notice, advertisement, etc.) CO3: enhance their writing skills. CO4: explain various literary aspects through the text which capacitates them to enrich their literary and cultural values. CO5: make English learning a pleasurable endeavor. CO6: show better performance in International English language testing examinations like TOEFL, IELTS.
0347	Physics (Statistical Physics and Thermodynamics-II)	After the course the students, will be able to: CO1: explain the entropy and its use in the three laws of Thermodynamics. CO2: explain the PV and ST diagrams graphically and mathematically. CO3: explain the entropy for a perfect gas and heat death of the universe. CO4: derive Maxwell's Thermodynamical relations and their applications. CO5: explain the Clausius Clapeyron equation and Joule Thomson effect. CO6: explain the mathematical expressions for Thermo emf, Peltier and Thomson coefficients for a

		Thermocouple as a reversible heat engine.
0348	(Optics and Lasers-II)	CO1: explain the lasers fundamentals and Einstein's coefficients. CO2: explain the Natural, Collision and Doppler Broadening of spectral lines theoretically and mathematically. CO3: explain the various lasers schemes and types of lasers with applications. CO4: familiarize to fiber optics and various losses in optical fibre. CO5: explain about Optical fibre-based communication system and the medical applications of laser and fiber optics.
0349	(Quantum Physics-II)	CO1: explain about the specimen of Hydrogen atom in detail. CO2: explain the Zeeman effect, Stark effect and Auger effect. CO3: explain the symmetric and antisymmetric wave functions and the concept of L-S and J-J coupling. CO4: explain about the rotational vibrational levels and spectrum of diatomic molecules. CO5: describe the Franck Condon principle. CO6: state the Raman effect and familiarize with magnetic resonance experiments.
0350	Chemistry (Inorganic Chemistry-B)	Students will be able to: CO1: explain about lanthanide contraction, complex formation, occurrence and isolation of lanthanide compounds. CO2: explain about General features and chemistry of actinides, chemistry of separation of Np, Pu and Am from U, similarities between the later actinides

		and the later lanthanides. CO3: define Arrhenius, Bronsted-Lowry and Lewis concepts of acids and bases along with Lux-Flood and solvent system. CO4: explain detailed chemistry of Oxidation and Reduction. CO5: explain about physical properties, types and general characteristics of solvents, reactions in non-aqueous solvents with reference to liquid NH3 and liquid SO2.
0351	(Organic Chemistry-B)	Students will be able to: CO1: express Structure, nomenclature, preparation, Physical and chemical properties of carboxylic acid derivatives. CO2: explain about interconversion of acid derivatives by nucleophilic acyl substitution and mechanisms of esterification and hydrolysis (acidic and basic). CO3: explain the chemistry of ethers, epoxides, fats, oils and detergents. CO4: describe the nomenclature, methods of formation, physical and chemical properties of organic compounds of Nitrogen. CO5: recognize mechanisms of Gabriel-phthalimide reaction, Hofmann bromamide reaction. CO6: explain about heterocyclic compounds such as pyrrole, furan, thiophene, pyridine, indole, quinoline, isoquinoline their methods of synthesis and reactions.
0352	(Physical Chemistry-B)	CO1: explain the Phase equilibrium concept of one and two component systems. CO2: explain about thermodynamic derivation and applications of Nernst distribution law. CO3: describe the various terms involved in phase diagram and Gibb's phase rule.

	(Laboratory Practicals)	CO4: explain the details of electrochemistry. CO5: mention and explain various methods for the determination of transport number. CO6: explain the concepts of electrolytic conduction and dilution. Students will be able to: CO1: determine of Rf values and identification of organic compounds. CO2: separate isometric mixture of Ortho and para nitroaniline using hexane and ethyl acetate (8.5 : 1.5) by thin layer chromatography. CO3: perform extraction of caffeine from tea leaves. CO4: recognize detection of elements (N, S and halogens) and functional groups (phenolic, carboxylic, carbonyl, esters, carbohydrates, amines, amides, nitro and anilide), in simple organic compounds.
MAT-0341	Mathematics (Advanced Calculus-II)	After completing the course, students will be able to: CO1: explain the concept of Sequences, bounded sequences, Convergence and Divergence and Oscillation of sequences, CO2: analyse the theorems related to Sequences, Monotonic Sequences, and Cauchy's Convergence of sequences. CO3: explain the Sequential continuity and Uniform continuity of Functions of Single Variable. CO4: use Series and tests to check the convergence and non-convergence of series like comparison test. CO5: perform many tests like Cauchy's Integral test, Cauchy's Root test, Ratio test, D'Alembert test etc. and their difference from one another to solve various problems. CO6: rearrange absolute Convergent series and Riemann's Rearrangement Theorem.

MAT-0342	(Differential Equations II)	After completing the course, students will be able to: CO1: solve questions of basic concepts of Power Series methods, Bessel and Legendre functions. CO2: describe about partial differential equations of first order, Integral Surfaces and Orthogonality of System of Surfaces. CO3: describe the concepts of Laplace transforms, Inverse Laplace transforms and its applications. CO4: verify the existence theorem for Laplace transformations and its applications.
MAT-0343	(Dynamics)	After completing the course, students will be able to: CO1: describe and analyze Motion of particle with constant acceleration, acceleration of Falling bodies and its practical applications. CO2: analyze Motion of two particles connected with a string, motion along smooth inclined plane, Constrained Motion along plane. CO3: verify motion under gravity and motion of any particle in vertically upward direction. CO4: describe the concept of Simple Harmonic Motion and Elastic String. CO5: apply Curvilinear motion of a particle and will able to solve day to day problems. CO6: apply the concepts of Work, Power, Potential Energy and the effect of gravitation on these Forces. CO7: describe and solve problems regarding The concept of Relative Motion and various topics related to this concept like velocity and acceleration. CO8: describe the various types of momentum like Angular and Impulsive.
	Computer Science	

CS07	(Data Base Concepts)	The students after completing this course, will be able to: CO1: discuss Database management systems, databases and its applications. CO2: state about the good formal foundation on the relational model. CO3: explain about relational algebra and calculus. CO4: normalize the database & understand the internal data structure.
CS08	(Data Structures)	Students after completing this course, will be able to: CO1: apply the basic concepts of data structures and algorithms. CO2: describe the concepts about searching and sorting techniques. CO3: apply the basic concepts about stacks, queues, lists, trees and graphs CO4: write the algorithms and follow step by step approach in solving problems with the help of fundamental data structures
PCS04	(Practical Based Paper CS08)	The students after completing this course, will be able to: CO1: state how data can be stored in memory. CO2: implement Arrays and various operations on array. CO3: implement Stacks and Queues and various operations on them. CO4: implement the concept of Linked List. CO5: implement the concept of various types of Trees. CO6: implement various searching and sorting techniques along with their Complexity. CO7: implement Graph and Graph traversal techniques.
0316	Agriculture (Cultivation Practices of Vegetables, Timber	After the completion of the course, the students will be able to:

	and basic Statistical Methods)	CO1: describe about the tillage, fundamentals and principles of tillage, zero tillage, and tillage implements. CO2: describe about the cultivation practices of potato, tomato, bhindi, cabbage, onion and asparagus. CO3: explain about timbers and lumbers. CO4: raise Dalbergia, Tectona, Poplar and Eucalyptus trees. CO5: apply statistical methods for agricultural work including mean, mode, median, chi-square, standard deviation.
SEMESTER-V		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
0448	Physics (Condensed Matter Physics-I)	After the course, the students will be able to: CO1: explain about Crystal Structure and Symmetry Operations. CO2: describe the concept of Reciprocal Lattice and able to use it as a tool. CO3: explain about Crystal Diffraction and understand diamond and sodium chloride structures. CO4: describe about the fundamental principles of Fermi levels and Band gap in semi-conductors. CO5: explain about Instrinsic and Extrinsic semi-conductors. CO6: explain about Hall effect in metals and its applications.
0449	(Electronics and Solid-State Devices-I)	CO1: explain the concept of semi-conductor devices, biasing techniques, rectifiers and characteristics of different types of photo conductive devices. CO2: Analysis of efficiency and ripple factor in filter circuits and different configuration of a transistor. CO3: explain about CRO in detail along with its

		applications. CO4: explain about the various amplifiers using H parameters. CO5: describe various junction diodes and their uses.
0450	(Nuclear and Particle Physics-I)	CO1: explain the general properties of Nuclei, formation of Nuclei and their binding energy. CO2: explain about the Liquid drop model and Shell model along with their applications and limitations. CO3: explain Radioactivity, α, β and γ decoy. CO4: explain about a nuclear reaction and its types, conservation laws and kinematics of Q-value equation. CO5: explain about Rutherford scattering cross section and distance of closest approach. CO6: analyse the energy released during nuclear fission and fusion.
0451	Chemistry (Inorganic Chemistry-A)	Students will be able to: CO1: explain about limitations of Valence Bond Theory, crystal field splitting in octahedral, tetrahedral and square planar complexes, factors affecting the crystal – field parameters and their Spectro chemical Series. CO2: explain thermodynamic and Kinetic stability of metal complexes, factors affecting the stability and substitution reactions of square planar complexes. CO3: describe nomenclature and classification of organometallic compounds. CO4: explain preparation, properties, bonding and applications of alkyls and aryls of Li, Al, Hg, Sn and Ti. CO5: explain about metal – ethylenic complexes and homogeneous hydrogenation, mononuclear carbonyls and the nature of bonding in metal carbonyls.

0452	(Organic Chemistry-A)	CO6: describe the details of Bioinorganic Chemistry. Students will be able to: CO1: explain principles, types of electronic transitions, effect of conjugation, concept of chromophore, auxochrome, different shifts and UV spectra of conjugated enes and enones. CO2: explain Woodward Fisher Rules and their applications in calculating maximum values of conjugated alkenes and conjugated carbonyl compounds. CO3: explain about Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups. CO4: memorize the interpretation of IR spectra of simple organic compounds and structure elucidation of simple organic compounds using UV, IR and PMR spectroscopic techniques. CO5: explain basics of 1H NMR spectroscopy, interpretation of PMR spectra of simple organic molecules such as ethyl bromide, ethanol, acetaldehyde, 1,1,2-tribromoethane, ethyl acetate, toluene and acetophenone. CO6: discuss the nomenclature, classification, methods of formation, physical and chemical properties of Carbohydrates.
0453	(Physical Chemistry-A)	CO1: recognize the significance of quantum mechanics and quantization of energy. CO2: define Black-body radiations, Planck's radiation law, photoelectric effect, heat capacity of solids, Compton effect, Bohr's model of hydrogen atom and its defects. CO3: derive Schrodinger wave equations for particle in a

		box and H-atom and apply the concept of quantization of energy to different orbitals and calculate the energy levels. CO4: explain quantum numbers and derive radial wave functions and angular wave functions. CO5: describe details of Molecular orbital theory, valence bond model and comparison between both . CO6: differentiate between thermal and photochemical processes, application of Grothus-Drapper and Stark-Einstein laws of photochemistry to calculate quantum yield. CO7: use Jablonski diagram to depict fluorescence and non- radiative processes (internal conversion, intersystem crossing). CO8: explain photosensitized reactions and Photochemistry of carbonyl compounds and alkenes
	(Laboratory Practicals)	Students will be able to: CO1: explain preparation of sodium trioxalatoferrate (III), Na3[Fe(C2O4)3] and determination of its composition by permaganometry. CO2: prepare Copper tetraammine complex [Cu(NH3)4]SO4. CO3: prepare cis-and trans-bisoxalatodiaqua chromate (III) ion. CO4: memorize Separation and estimation of Mg(II) and Fe(II). CO5: determine strength, solubility, saponification and ionization constant of samples conductometrically. CO6: explain the distribution of iodine between water and CCl4. CO7: explain about the distribution of benzoic acid between benzene and water. CO8: determine molecular weight of a non – volatile solute by Rast method. CO9: determine apparent degree of dissociation of an

		electrolyte (e.g. NaCl) in aqueous solution of the substance.
	Mathematics	
MAT-0443	(Analysis-I)	After completing the course, students will be able to: CO1: describe Countable and Uncountable sets and problems related to this topic CO2: explain Riemann Integral and Integrality of Continuous, Monotonic functions and their Applications. CO3: explain Theorems like Fundamental theorem of Integral Calculus, Mean Value Theorem of Integral Calculus and their applications by solving various problems. CO4: use Beta Gamma Functions, Improper Integrals, Comparison Tests to solve Improper Integral. CO5: perform Abel's test, Dirichlet's test to solve Improper integral, Frullani Integral CO6: explain about Continuity and Derivability of an Integral of a Function as a Parameter.
MAT-0444	(Modern Algebra)	After completing the course, students will be able to: CO1: differentiate and solve theorems of Groups, Subgroups, Lagrange's Theorem, Normal subgroups Quotient Groups. CO2: describe Homeomorphisms, Isomorphism theorems and problems related to this concept. CO3: analyze Conjugate elements, Class Equations, Permutation Groups, and Alternating Groups etc. CO4: describe and solve problems of Rings, Subrings, Ideals and Integral Domain and problems and theorems based on these concepts. CO5: differentiate Quotient Rings, Prime and Maximal ideals, Homomorphism and Isomorphism based on Rings.
MAT-0445	(Probability Theory)	After completing the course, students will be able to:

		CO1: describe Probability, Conditional Probability by solving practical problems related to this concept. CO2: solve Random Variables and topics on this fields like probability density function, discrete and continuous random variables, Moment Generating Functions, Skewness and Kurtosis. CO3: differentiate Discrete Distributions-Bernoulli, Binomial, Negative Binomial, Geometric and Poisson Distributions and problems related to these concepts. CO4: apply Continuous Distributions-Uniform, Exponential, Beta, Gamma, Chi-Square and Normal distributions on various problems. CO5: describe and analyze Bivariate Random Variables and distribution along with the concepts of joint expectation, correlation coefficient, Bivariate Normal Distribution.
CS09	Computer Science (Project Management)	The students after completing this course, will be able to: CO1: explain the concepts of Project Management for planning to execution of projects, Able to understand different phases of SDLC. CO2: use the feasibility analysis in Project Management and network analysis tools for cost and time estimation. CO3: describe about Project Directions, Coordination and Control, Project Management Performance, Report Writing.
CS10	(Relational Database Management System)	The students after completing this course, will be able to: CO1: state the basic concepts and the applications of database systems. CO2: retrieve any type of information from a data base

PCS05	Practical C-Practical Based on paper CS10)	by formulating complex queries in SQL. CO3: describe the relational database design principles CO4: explain about Data Constraints, Grouping of data, Indexes, Sequences, Pl/SQL Concepts. The students after completing this course, will be able to: CO1: use the DDL commands, Primary key and Candidate keys. CO2: apply the various DML commands for retrieval of information CO3: perform all the Table join operations. CO4: develop simple applications using PL/SQL procedure, cursor, triggers.
0442	Agriculture (Agrodiversity and Physiology)	After the completion of the course, the student will be able to: CO1: explain the history of agroforestry, agroecological zonification, socioeconomic aspects of agroforestry, agroforestry system for small holdings arid land agroforestry. CO2: describe about the establishment of orchard basic cultural practices, elemental role and needs of nutrients, propagation – principles and techniques, stock –scion relationship and their incompatibility, Fruit Physiology CO3: describe about the respiration- glycolysis, citric acid cycle, photorespiration, photosynthesis – light reaction, dark reaction, C4 –cycle, CAM plants growth hormones and their role in agriculture. CO4: describe about the enzymes and vitamins, vernalization and photoperiodism. CO5: explain about intellectual property right, informatics in agriculture, seed production and technology indigenous technical knowledge in

		agriculture introduction to crop biotechnology agrobiodiversity.
SEMESTER-VI		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
0544	Physics (Condensed Matter Physics-II)	After the course, the students can: CO1: explain about Lattice dynamics and magnetic classification of materials. CO2: explain about Langevin theory of Diamagnetism and Paramagnetism, Weiss theory of Ferromagnetism. CO3: explain about liquids crystals, their types, properties and applications. CO4: describe the knowledge of Superconductivity. CO5: explain the basic ideas of materials at Nano scale and Nano particles. CO6: describe the Carbon Nano Structures and the applications of Nanotechnology in various fields.
0545	(Electronics and Solid State Devices-II)	CO1: describe the structure and working of JFET and MOSFET. CO2: describe the feedback in amplifiers and familarize with LC oscillators, Colpitts and Hartlery oscillators. CO3: explain the Analog and Digital circuits along with the various gates. CO4: explain Boolean Algebra and De-Morgan's theories. CO5: explain the analog and digital communication systems along with amplitude and frequency modulation. CO6: explain the sky wave, satellite and mobile communication.
0546	(Nuclear and Particle	CO1: describe the interaction of nuclear radiation with

	Physics-II)	matter and derive Bethe Bloch formula. CO2: explain about Gamma ray interaction with matter to study Photoelectric effect, Compton effect and Pair Production. CO3: explain the various nuclear detectors and their use in Nuclear Physics. CO4: explain the four basic interactions and the classification of Elementary particles, their properties and their decay modes.. CO5: describe the various quantum numbers and Gell Mann Nishijima formula. CO6: explain the Quark Model and its properties. CO7: explain the various particle accelerators and their use in Particle Physics.
0547 0548	Chemistry (Inorganic Chemistry-B) (Organic Chemistry-B)	Students will be able to: CO1: define Silicones and phosphazenes as examples of inorganic polymers and nature of bonding in triphosphazenes. CO2: explain the chemistry of Hard and Soft Acids and Bases. CO3: explain different types of electronic transitions, L – S coupling, selection rules for d-d transitions, spectroscopic ground states, Orgel –energy level diagram for d1 and d9states, discussion of the electronic spectrum of [Ti(H2O)6]3+ complex ion. CO4: explain magnetic behaviour, methods of determining magnetic susceptibility, correlation of μs and μeff values, orbital contribution to magnetic moments and application of magnetic moment data for 3d-metal complexes. Students will be able to: CO1: discuss classification, structure, stereochemistry, preparation and reactions of amino acids.

0549	(Physical Chemistry-B)	CO2: explain structure, nomenclature, classification, synthesis and reactions of peptides and proteins. CO3: explain the constituents of nucleic acids, Ribonucleosides and ribonucleotides, and double helical Structure of DNA. CO4: describe the chemistry of Synthetic Polymers in detail. CO5: explain organic Synthesis via Enolates. CO6: discuss the formation, structure and chemical reactions of Organomagnesium, Organozinc and Organolithium Compounds. CO1: describe X-ray diffraction, Bragg equation, determination of crystal structure of NaCl, KCl and CsCl and applications of Powder diffraction for structure determination. CO2: explain about Thermal and photochemical reaction in solid state. CO3: explain details of Electromagnetic radiation, regions of the spectrum, basic features of different spectrometers, Born-Oppenheimer approximation and degrees of freedom. CO4: give details of Rotational, Vibrational and Electronic Spectrum.
	(Laboratory Practicals)	Students will be able to: CO1: explain Column Chromatography to Separate fluorescein and methylene blue, and leaf pigments from spinach leaves. CO2: prepare iodoform from ethanol and acetone. CO3: prepare nitro and Iodo derivatives of given samples. CO4: discuss halogenation of organic compounds using oxidation and reduction reactions. CO5: explain stereochemical study of Organic Compounds via Models.

MAT-541	Mathematics (Analysis-II)	After finishing this course, students will be able to: CO1: perform double Integration over a Rectangle, bounded area, unbounded regions. Double integrals as Volumes, change to Polar Coordinates. CO2: analyse Triple integral in Rectangular Coordinates, Repeated integrals in 3-dimension. Change of Variables in a Triple Integral to Cylindrical and Spherical coordinates. CO3: do Integration of line, surface and find volume by using Gauss, Green and Stoke's theorems. CO4: apply Sequence and series of Functions and Various criteria to solve problems related to check the convergence and divergence of Series of functions. Taylor's and Able's theorem for Power Series. CO5: perform Fourier expansion of Monotonic, Even, Odd functions, Fourier series in the interval [a,b], $[0,2\pi]$.
MAT-0542	(Linear Algebra)	After finishing this course, students will be able to: CO1: describe Vector space, subspace, algebra of Subspace, Linear dependence and independence and theorems related to these concepts. CO2: analyze Basis and Dimension of a Vector space as well as subspace, Direct Sum and Complements. CO3: apply Linear Transformations, Rank Nullity theorem, Use of matrices with this topic, Change of Basis. CO4: solve Characteristic Roots and Characteristic Vectors, Cayley-Hamilton Theorem Diagonalizable Operators and Matrices, Minimal polynomial of a linear operator.

MAT-0543	(Numerical Analysis)	This course will help students to: CO1: apply Bisection, Secant, Regula-Falsi and Newtons's Method to solve various types of equations and also to find roots of polynomial. CO2: solve Interpolation, Lagrange and Hermite method, Divided Difference method. CO3: solve Numerical Differentiation, Numerical quadrature with the help of Newton-Cote's, Gauss Quadrature and Chebychev's formula. CO4: apply methods to solve Linear Equations and ordinary differential Equations.
CS11	Computer Science (E-Commerce)	Students after completing this course, will be able to: CO1: describe the basic business management concepts. CO2: state about e-commerce, both the technical and business aspects. CO3: explain the principles and practices of e-commerce and its related technologies. CO4: state the payment details and security issues.
CS12	(Web Programming)	Students after completing this course, will be able to: CO1: describe the fundamental concepts of Internet, Internet technologies. CO2: differentiate the features of different browsers. CO3: develop colorful web pages using tags, bullets and alignment on texts. CO4: explain the table handling tags, Frames and Frameset for designing web pages. CO5: explain java script – client-side objects, Event handling, built in objects. CO6: do programming with PHP.
PCS06	(Practical based on Paper CS12)	Students after completing this course, will be able to:

		CO1: develop web pages using HTML, DHTML and Cascading Styles sheets. CO2: develop a dynamic web pages using JavaScript (client side programming). CO3: do programming in PHP.
0515	Agriculture (Insects, Pests and Diseases of Crops)	After the completion of course, the students will be able to: CO1: protect plants and crops from diseases and describe about biological control, chemical control, systemic fungicides, Weedicides, Compatibility of various fungicides and Weedicides and Rodenticides CO2: explain about the diseases of crop plants such as wheat, rice, maize, citrus, grapes, cotton, vegetables, mustard and groundnut. CO3: explain about general account of Insects and pests, classification of insects, parts of insect body, and control measures of insect pests and diseases of crop. CO4: explain about the insect and nematode diseases of cereal (wheat, maize, rice) crops, oil (sunflower, groundnut, mustard) crops, fruit (mango, guava, citrus) crops and Vegetable crops.

B.SC. (AGRICULTURE)

PROGRAM OUTCOMES (POs)	After this program, the students will be able to: PO1: accommodate insightful information of Agriculture principles necessary for the applications of Agriculture. PO2: describe recent trends in technology and solve problem in industry and farmers. PO3: apply practical experience and interpersonal skills to work both in local and international environments. PO4: possess creative professionalism, understand their

	ethical responsibility and committed towards society.

PROGRAM SPECIFIC OUTCOMES (PSOs)	After this program, the students will be able to: PSO1: describe about agricultural practices from ancient times to modern era. PSO2: apply practical knowledge in crop cultivation Practices. PSO3: describe about Agri-allied sectors. PSO4: work with different farm implements. PSO5: serve the rural agricultural population. PSO6: disseminate recent agricultural technologies through extension. PSO7: perform various Agri-Business activities. PSO8: perform Horticulture and Sericulture practices

COURSE OUTCOMES (COs)

SEMESTER-VII		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
471	Project Planning, Evaluation and Implementation	After the course, the students will be able to: CO1: make the student familiar with writing of project proposal.
472	Sericulture and Apiculture	After the course, the students will be able to: CO1: apply skills for beekeeping. History & development of beekeeping in India. Bee keeping equipment, Species and races of bees, bee hive and its characterization. Bee castes, biology, ecology, behavior, communication, foraging strategies. Swarming and absconding. Apiary establishment-beekeeping equipment, bee pasturage. CO2: explain about the colony management, seasonal management. Managing colonies for production of honey, other hive products such as Bee pollen, Royal jelly and Bee venom. Artificial queen rearing. Bee

		health management. Bee poisoning. Production, properties, uses and marketing of good quality honey, bee pollen, royal jelly, propolis, beewax, bee venom, and value added products of honey. CO3: apply skills about the establishment and maintenance of apiaries. Beekeeping for pollination- role of honey bees in pollinating, agricultural, horticultural and tree crops. Beekeeping in integrated farming systems and organic farming. History, origin and development, study of different species of silkworms, characteristic features. CO4: explain about the host plants and their cultivation, comparative morphology, biology. Rearing and management of silk worms, appliances. Pests and diseases of silkworms, Silk worm seed technology, Cocoon production and post harvest operations. Reeling and testing of silk, marketing. Recent advances in sericulture.
473	Medicinal and Aromatic Plants	After the course, the students can: CO1: explain about the importance of medicinal and aromatic plants in human health, national economy and related industries, classification of medicinal and aromatic plants according to botanical characteristics and uses, conservation of medicinal plants. CO2: explain about the climate and soil requirements; cultural practices; yield and important chemical constituents and uses of medicinal plants (Aloe vera, Terminalia bellerica, Stevia, Tinospora cordifolia, Black Musali, Thippali, Nux vomica, etc). CO3: explain about the climate and soil requirements; cultural practices; yield of varieties in rose, jasmine, crossandra, chrysanthemum, marigold, tuberose, cut rose, gladiolus, carnation. CO4: explain about the climate and soil requirements; cultural practices; yield of important medicinal,

		spice and aromatic crops like Cellery, Coriander, Fennel, Dill Seed, Honey Plant, Funugreek and Mentha.
47EH01	Pomology-I	After the course, the students will be able to: CO1: explain about the origin and domestication of horticultural plants and definitions. Scope and impact of horticultural crops. Classification of horticultural plants based on botanical, geographical position and parts used. Horticultural zones of India and Punjab including hilly and high rainfall zone crops. CO2: explain about the development of horticulture in India – phases in development after independence – institutions involved in horticulture. Nutritive value and nutra- ceutical properties of horticultural crops Growth and development of horticultural plants – different stages of growth – juvenile phase, flowering and fruiting Physiological changes in growth and development – respiration and photosynthesis Factors influencing seed, dormancy and germination. Factors influencing growth and development – soil and light. CO3: apply skills about the factors influencing growth and development – temperature, rainfall, humidity and wind, Propagation – definition, merits and demerits – sexual and a sexual propagation. CO4: explain about the seed propagation – seed treatments, sowing and seedling establishment. Vegetative propagation and factors influencing the success of vegetative propagation Methods of vegetative propagation – cutting and layering. Methods of vegetative propagation – grafting and budding. CO5: explain about the Influence of rootstock on scion, stock / scion relationship. Use of specialized organs and structure for propagation.

		CO6: explain about the factors influencing growth and development – temperature, rainfall, humidity and wind, Propagation – definition, merits and demerits – sexual and a sexual propagation. Seed propagation – seed treatments, sowing and seedling establishment. CO7: explain about the vegetative propagation and factors influencing the success of vegetative propagation Methods of vegetative propagation – cutting and layering. Methods of vegetative propagation – grafting and budding. Influence of rootstock on scion, stock / scion relationship. Use of specialized organs and structure for propagation.
47EH02	Nursery Production	After the course, the students can: CO1: explain about the scope and importance of vegetable and flower nurseries planning I - location, soil, topography, layout, paths, roads, nursery beds, office, store, potting yard planning II - water, containers, electricity, fencing, shelter belts – Propagation structures - greenhouses, Mist chambers, polyhouses – growing media - selection of media, quality of media, soil, sand, peat, leaf mould, saw dust, sphagnum moss, coco peat. CO2: explain about the propagation – seed germination – dormancy-methods of breaking dormancy – pre-sowing seed treatment. seed hardening – seed priming-seed pelleting- methods of sowing – irrigation systems- nutrient management – water soluble and liquid fertilizers – use of biocontrol agents-growth regulators-plant protection-techniques to harden the seedlings Transport and packing of nursery plants – quality control-sales promotion. CO3: explain about the varieties and F1 hybrids – seed rate – seed treatments –sowing – media-management for water, nutrients and plant protection, hardening,

		packaging, storage, transport and marketing of tomato, brinjal, chilli, capsicum, cucurbits, cabbage, cauliflower, carrot, radish, china aster, marigold, gaillardia, zinnia, petunia, gomphrena. CO4: apply skills for the varieties and F1 hybrids – seed rate – seed treatments –sowing – media-management for water, nutrients and plant protection, hardening, packaging, storage, transport and marketing of mango, citrus, lichi, lemon, apple, pear, peach, guava, forest trees like popular, eucalyptus and important ornamental trees.
47EH03	Insects, Pests of Horticulture and Vegetables	After the course, the students can: CO1: explain about the pest: definition and its categories, losses from pests to agricultural crops and their products. Natural Control of insect-pests, factors causing pest outbreak in agriculture. Concept of economic injury and economic thresh hold level. Principal and methods of pest control in reference to IPM- its components viz., physical, legal, cultural, biological and chemical. CO2: explain about the distribution, host range, life cycle, damage and control of insect-pests of winter vegetables (potato tuber moth, potato aphid, white grubs; onion maggots, onion thrips; pea leaf miner, pea aphid, pea pod borer). CO3: apply skills for the distribution, host range, life cycle, damage and control of insect-pests of summer vegetables (melon fruit fly, red pumpkin beetle, hadda beetle; sweet potato weevil) Distribution, host range, life cycle, damage and control of insect-pests of chillies (thrips, aphid, pod borer) and turmeric (rhizome scale, leaf roller). CO4: explain about the distribution, host range, life cycle, damage and control of insect-pests of temperate fruits (Apple root borer, apple stem borer, Apple woolly

		aphis, Tent caterpiller, codling moth, peach stem borer, peach leaf curl aphid, peach fruit fly, cherry stem borer, walnut weevil, almond weevil) Distribution, host range, life cycle, damage and control of insect-pests of Sub tropical fruits (citrus caterpillar, citrus psylla, citrus leaf miner, citrus white fly, bark caterpillar, citrus mealy bug, citrus mite, ber fruit fly, ber beetle, litchi bug, bark eating caterpillar of loquat).
SEMESTER-VIII		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
481	Recent Trends in Agriculture	After the course, the students can: CO1: acquire skills about the cultivation of crops for biofuels Molecular marker assisted introgression Zero tillage concepts CO2: explain about the vertical farming Genetically engineered crops Advantages and Disadvantages Baby corn cultivation and other frozen vegetable food. CO3: explain about the organic crop cultivation New agronomic practices growing crops on raised beds e.g. wheat Drip irrigation system. CO4: explain about green house cultivation E-commerce, the sales in agriculture has been improving WTO – Agreement on Agriculture.
482	Irrigation and Water Management	After the course, the students will be able to: CO1: explain about the Irrigation and its importance, Time of irrigation. Principal of irrigation, soil moisture relationship and tension curve. Methods of moisture estimation in soils. Basis for scheduling irrigation to crops: plant basis and climatological approach. CO2: gain skills about the sources and modes of irrigation, irrigation system of Punjab, Flood irrigation, furrow irrigation, sub surface irrigation and sprinkler

		irrigation. Methods of measurement of irrigation water. Efficiency of irrigation. Water requirement of different crops. CO3: acquire skills of waterlogging, different types of water movement in soil. Principal of drainage: surface drainage and sub surface drainage. Kind of sub surface drains. CO4: explain about the crop response to quality of irrigation water. Irrigation management and problem, Soil irrigation for frost protection. Erosion problems in Punjab and India. CO5: explain about causes and effects of erosion, Factors responsible for water and wind erosion. Universal soil loss equation. Land use capability classification. Form of wind and water erosion. Different methods of water conservation. Erosion control measures.
483	Internship in Agricultural related Ind./Vet Hop./Village/Govt. Nurseries	After the course, the students can: CO1- Students familiar with practical area of agriculture and its allied area.
48EH01	Pomology-II	CO1: apply knowledge of principles of breeding of horticultural crops improvement of fruits. Importance of fruits and vegetable in human nutrition. CO2: explain the area, production and Contribution of Horticulture fruit crops in National Economy and exports. Programmes of development - National Horticulture Mission. CO3: explain about the growth and development physiology of flowering, fruit set and development, parthenocarpy and seedlessness. Maturity and ripening plant growth regulators and their role. Physiological basis and morphology of flowering and fruiting (berry, stone, pome, nut). CO4: gain skills about the Improved production technology of fruits, high density planting. Integrated

		nutrient and water management, fertigation precision farming in horticulture watershed management for promotion of horticulture. CO5: explain about the protected cultivation training. pruning and canopy management. Genetic terminology relation to fruit breeding like self incompatibility, type of dichogamy, allopolyploids, auto polyploidy, vivipary and heterostyly . Biotic and abiotic stress breeding, biotechnological tools for breeding for fruits. Micropropogation, meristem culture, ovule culture, in vitro pollination. CO6: explain about production of' bio-agents and bio-fertilizer and green house management stionic relations and rootstock.
48EH02	Culturing Vegetable	After the course, the students can: CO1: explain the types of vegetable garden : kitchen garden, market garden, truck garden, floating garden. Botanical classification of vegetables crops. Nursery raising, seed bed preparation and transplanting of vegetable crops. CO2: explain about Seed rate, climate and soil requirement of important vegetable crops (tomato, brinjal, potato, chilli, capsicum, cucarbits, cole crops, root crops) Weed management and irrigation, fertilizers and manure requirement of tomato, brinjal, potato, chilli, capsicum, cucarbits , cole crops, root crops. CO3: explain about the harvesting and yield of vegetable crops. Tolerance of vegetable crops to soil acidity and soil salinity. Isolation distance for certified seed production in vegetables. CO4: explain about the preservation and processing of vegetables. Genetically modified vegetable crops for human welfare. Storage life and storage methods for vegetables. Growing of off season vegetables in green houses and polyhouses.

48EH03	Diseases of Fruits and Vegetables	After the course, the students can: CO1: explain about the symptoms, life cycle, host range their management and control of different diseases of fruit. like apple, peach, mango, citrus, papaya, sapota, grapes, guava. CO2: explain about the symptoms, life cycle, host range, their management and control of different diseases of fruit, fruits like pear, peach, plum, apricot, cherry, walnut, almond, strawberry, ber, loquat. CO3: explain the symptoms, life cycle, host range their management and control of different diseases of winter vegetables (cabbage, potato, onion and peas) CO4: explain about the symptoms, life cycle, host range their management and control of different diseases of summer vegetables (brinjal, melon, pupkin, sweet potato) Symptoms, life cycle, host range their management and control of different diseases of chillies and turmeric. CO5: explain about symptoms, life cycle, host range their management and control of different diseases of ornamental plants such as rose, jasmine, gladiolus, tulip, carnation, marigold, chrysanthemum.

B.SC. (FASHION DESIGNING)

PROGRAM OUTCOMES (POs)	After the completion of this program, the students will be able to: PO1: describe about various principles of Fabric Construction, Textile Science, History of Art, Textile, Costumes, Fashion theories, Styles, Marketing and Merchandising. PO2: create futuristic design on various domains and develop prototypes using draping, flat pattern making and stitching. PO3: demonstrate Event Management, Teamwork, Leadership, Entrepreneurial and Business.

PROGRAM SPECIFIC OUTCOMES (PSOs)	After finishing the program, students will be able to: PSO1: demonstrate their basic foundation in designing and have the ability to visually represent by illustrations, and visual display of merchandising. PSO2: convert their designs into a garment using Appropriate construction techniques. PSO3: have a strong foundation and understanding of the garment manufacturing process and procedures.

COURSE OUTCOMES (COs)

COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
SEMESTER-I		
0002/0092	Punjabi/History and Culture of Punjab	Punjabi (ਕਾਵਿ -ਸੁਮੇਲ) CO1: ਕਵੀ ਭਾਈ ਵੀਰ ਸਿੰਘ- ਦੀਆਂ 'ਕਵਿਤਾ' ਪੜ੍ਹਾਕੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਕੁਦਰਤ ਦੀ ਖੂਬਸੂਰਤੀ, ਰੱਬੀ ਪਿਆਰ ਤੇ ਜ਼ਿੰਦਗੀ ਦੇ ਰੱਝਵਿਆਂ ਚੋਂ ਖੁਸੀ ਲੈਣ ਪ੍ਰਤੀ ਅਨੇਕਾਂ ਵਿਧੀਆਂ ਸਮਝਾਉ ਣੀਆਂ। CO2: ਪ੍ਰੋ: ਪੂਰਨ ਸਿੰਘ:- ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀ ਕੁਦਰਤ, ਕਿਸਾਨ, ਮਜ਼ਦੂਰ ਤੇ ਮਾਂ- ਬੋਲੀ ਦੀ ਅਹਿਮੀਅਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣੀ। CO3: ਧਨੀ ਰਾਮ ਚਾਤ੍ਰਿਕ- ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਤੇ ਦੇਸ਼ ਭਗਤੀ ਨਾਲ ਜੋੜਨ ਦੀ ਤਜਬੀਜ਼ ਬਾਰੇ ਵਿਦਿਆਰਥੀਆਂ ਨਾਲ ਸਾਂਝ ਪਾਉਦੀ ਹੈ। CO4: ਪ੍ਰੋ:ਮੋਹਨ ਸਿੰਘ ਦੀ ਕਵਿਤਾ ਰਾਹੀਂ ਮਾਂ ਬੋਲੀ, ਮਾਂ ਦੇ ਪਿਆਰ ਤੇ ਦੇਸ਼ ਦੀ ਰਾਖੀ ਲਈ ਸਿਪਾਹੀ ਦੇ ਮਨੋਭਾਵਾਂ ਨੂੰ ਬਿਆਨ ਕਰਦੇ ਹੋਏ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮਾਂ ਬੋਲੀ ਦੀ ਅਹਿਮੀਅਤ ਬਾਰੇ ਦੱਸਿਆ ਹੈ। CO5: ਬਾਬਾ ਬਲਵੰਤ ਸਿੰਘ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਜ਼ਿੰਦਗੀ ਦੇ ਹਾਲਤਾਂ ਨਾਲ ਜੂਝਣ ਤੇ ਚੜ੍ਹਦੀ ਕਲਾ ਵਿੱਚ ਰਹਿਣ ਦੀ ਪ੍ਰੇਰਨਾ ਮਿਲਦੀ ਹੈ। CO6: ਸਿਵ ਕੁਮਾਰ ਬਟਾਲਵੀ ਦੀ ਕਵਿਤਾਂ ' ਬੇਸ਼ੱਕ ਬ੍ਰਿਹਾ ਦੀ ਕਵਿਤਾ ਹੈ ਪਰ ਜਿਉਣ ਦੀ ਪ੍ਰੇਰਨਾ ਤੇ ਅਸਲੀਅਤ ਤੋਂ ਜਾਣੂੰ ਕਰਵਾਉਦੀ ਹੈ। CO7: ਸੁਰਜੀਤ ਪਾਤਰ ਦੀ ਕਵਿਤਾ ' ਜ਼ਿੰਦਗੀ ਦੀ ਅਸਲੀਅਤ ਨੂੰ ਬੜੀ ਸਮਸ਼ਟਤਾ ਨਾਲ ਪ੍ਰਗਟ ਕਰਦੀ ਹੈ ਤੇ ਵਿਦਿਆਰਥੀ ਦੀ ਸੋਚ ਨੂੰ ਉਤਸ਼ਾਹਤ ਕਰਦੀ ਹੈ।

		CO8: ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ ਦੀ ਕਵਿਤਾ ਦੇਸ਼ ਵੰਡ ਤੋਂ ਲੈ ਕੇ ਰਾਜਨੀਤੀ ਦੀਆਂ ਉਲਝਵਾਂ ਨੂੰ ਖੋਲ ਦੀ ਕਵਿਤਾ ਹੈ। CO9: ਐਸ.ਐਸ ਸੀਮਾ ਦੀ ਕਵਿਤਾ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਉਸਾਰੂ ਤੇ ਮੌਜੂਦ ਹਾਲਾਤ ਨਾਲ ਲੋਹਾ ਲੈਣ ਦੀ ਭਾਵਨਾ ਨਾਲ ਭਰਪੂਰ ਕਵਿਤਾ ਹੈ। Translation into English CO1: By teaching 'poetry' -Sumail Kavi Bhai Vir Singh- to the students learn to appreciate nature. CO2: Through the poems of Prof. Puran Singh, to give information about the importance of Nature, farmers, workers, and mother tongue CO3: Punjabi culture and patriotism through the poems of Dhani Ram Chatrik Communicates with students about the practice of connecting with their mother tongue. CO4: Prof. Mohan Singh's poem, Narrates the sentiments of a soldier CO6: The poems of Shiv Kumar Batalvi are of course the poetry of Briha . CO7: Surjit Patar's poem 'The reality of life with great clarity to Expresses and encourages the student's thinking. CO8: Amrita Pritam's poem explores the problems of politics from the partition of the country CO9: The poem of S.S. Seema makes the students aware of the current situation. History and Culture of Punjab: After completion of this course, the students will be able to: CO1: explain about the first civilization of India i.e. Indus Valley Civilization. CO2: explain about Vedic Age, growth of Jainism and

		Buddhism in 6th century B.C. in Punjab. CO3: describe about the society and culture under Mauryas and Guptas. CO4: explain about cultural Orientation i.e. Bhakti Movement of India. CO5: explain about the youngest religion of the world i.e. Sikhism from Shri Guru Nanak Dev Ji to all ten Gurus. CO6: explain about Martyrdoms in Sikhism. CO7: explain about institutional development in Sikhism, New policy adopted by Shri Guru Hargobind Sahib Ji and Creation of Khalsa. CO8: explain about changes in society in the 18th century i,e. Social unrest, emergence of Misls and institutions: Rakhi, Gurmata, Dal Khalsa. CO9: explain about society and culture of the people under Maharaja Ranjit Singh. CO10: explain about the Physical geographical map of Punjab.
1033	English	After the course, the students will be able to: CO1: explain different aspects and forms of communication. CO2: enhance their listening, speaking, reading and writing skills. CO3: develop their personality. CO4: develop confidence to participate in placement drives. CO5: show better performance in International English testing language examinations like TOEFL, IELTS.
	Basics of Computer	After the course, the students will be able to: CO1: describe about the basics of computer. CO2: use the knowledge of CAD based application in

		fashion designing. CO3: use MS Office. CO4: make work assignments in word file and giving power point presentations.
	Basic of Design-I	After completing this course, the students will be able to: CO1: define design fundamental, elements and principles of design. CO2: demonstrate figure sketching and drawing. CO3: explain what, why and how of illustration techniques. CO4: describe about Fashion Design concepts and colour Theories.
	Needle Crafts-I (Theory and Practical)	After this course, the students will be able to: CO1: do traditional Indian embroidery and the different Fabric construction Techniques. CO2: do the basic embroidery stitches. CO3: make and products with the help of basic embroidery stitches. CO4: apply various techniques of patchwork, appliqué and open work. CO5: apply these techniques to develop various products.
1031	Garment Construction- I (Theory and Practical)	After this course, the students will be able to: CO1: use various finishing techniques related to stitching. CO2: determine the seams and stitches according to the design and specification. CO3: apply the special features, attachments, advancements in all aspects of manufacturing. CO4: describe about machines and tools used for sewing. CO5: differentiate between different garment components.
	Garment Design-I (Theory and Practical)	After this course, the students will be able to: CO1: develop the aesthetic and creative sense for designing through knowledge of principles of

		design. CO2: apply design sense through color aspects in designs. CO3: describe the importance of colour and colour schemes.
1032	Textile Science-I (Theory and Practical)	After the course, the students will be able to: CO1: identify different types of Fibers CO2: describe about different fibers through Microscopic appearance, burning test and solubility test for to know the fabric type. CO3: apply the concept of Fabric Identification on the basis of fabric construction. Woven knitted Non-woven Fabric analysis on the basis of the thread count.
SEMESTER-II		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
0102/0192	Punjabi/History and Culture of Punjab	After the course, the students will be able to: Punjabi (12 ਕਹਾਣੀਆਂ ਦਾ ਸੁਮੇਲ) CO1: ਕਥਾ - ਕਿਤਾਬ': ਪਹਿਲੀ ਕਹਾਣੀ 'ਪੁਹਤਾ ਪਾਂਧੀ' ਗੁਰਬਖਸ਼ ਸਿੰਘ ਪ੍ਰੀਤ ਲੜੀ ਦੁਆਰਾ ਲਿਖੀ ਗਈ ਹੈ। ਇਸ ਵਿੱਚ ਮੇਜਰ ਸਾਹਿਬ ਦੇ ਸੁਭਾਅ ਦੇ ਸੁਲੀਕੇ, ਬੋਲ ਚਾਲ ਤੇ ਦੂਸਰਿਆਂ ਦੇ ਕੰਮ ਆਉਣ ਬਾਰੇ ਦੱਸਿਆ ਹੈ। CO2: ਪ੍ਰੀ: ਸੁਜਾਨ ਸਿੰਘ ਦੀ ਕਹਾਣੀ 'ਬਾਗਾਂ ਦਾ ਰਾਖਾ' ਕਹਾਣੀ ਵਿੱਚ ਕਵਿਤਾ ਕਾਮਿਆ ਦੀ ਅਪਮਾਨ ਜਨਕ ਸਥਿਤੀ ਦਾ ਵਰਣਨ ਕੀਤਾ ਹੈ। CO3: ਕੁਲਵੰਤ ਸਿੰਘ ਵਿਰਕ ਦੀ ਕਹਾਣੀ ' ਧਰਤੀ ਹੇਠਲਾ ਬਲਦ। ਮਾਝੇ ਦੇ ਲੋਕ ਮੁਸੀਬਤਾਂ' ਭਰੀ ਜ਼ਿੰਦਗੀ ਵਿੱਚ ਜ਼ਿੰਦਗੀ ਨੂੰ ਜਿਉਣਾ ਜਾਣਦੇ ਹਨ। CO4: ਸੁਖਵੰਤ ਕੌਰ ਮਾਨ ਦੀ ਕਹਾਣੀ 'ਚੱਟੂ' 1947 ਦੀ ਭਾਰਤ ਪਾਕ ਵੰਡ ਦੇ ਉਜਾੜੇ ਦੇ ਦੁੱਖਾਂ ਤਕਲੀਫਾਂ ਦਾ ਵਰਨਣ ਕੀਤਾ ਹੈ। CO5: ਗੁਲਜ਼ਾਰ ਸਿੰਘ ਸੰਧੂ ਦੀ ਕਹਾਣੀ ਠੱਗੀ' ਵਿੱਚ ਮੌਤ ਦੀ ਉਡੀਕ ਰਹੇ ਨਿਰਾਸ਼ ਮਨੁੱਖ ਦੁਆਰਾ ਇਸ ਨੂੰ ਸਮੂਹਿਕ ਹੋਣੀ ਵਜੋਂ ਭੋਗਣ ਵਿੱਚ ਤੱਸਲੀ ਅਨੁਭਵ ਕਰਨਾ ਹੈ। CO6: ਮੋਹਣ ਭੰਡਾਰੀ ਦੀ ਕਹਾਣੀ 'ਘੋਟਣਾ' ਨਵੀ ਉਦਯੋਗਿਕ ਸਭਿਅਤਾ ਦੇ ਲਿਹਾਜੇ ਹੋਏ ਹੁਨਰਮਦ ਮਨੁੱਖ ਦੀ ਪੀੜ ਤੇ ਲੋਚਾ ਦਾ ਕਰੁਣਾਮਈ ਚਿਤਰਨ ਹੈ।

		CO7: 'ਬੱਚੇ ਦੀ ਸ਼ਰਾਰਤ' ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼ ਦੀ ਰਚਨਾ ਹੈ। ਔਰਤ ਮਨ ਦੇ ਵੇਗਾਂ, ਤਰੰਗਾਂ, ਇਛਾਵਾਂ ਦੁਵਿਧਾਵਾਂ, ਚਲਾਕੀ, ਸਿਆਣਪਾਂ ਤੇ ਖੁਆਰੀਆਂ ਨੂੰ ਵਿਅੰਗਮਈ ਅੰਦਾਜ਼ ਵਿੱਚ ਪੇਸ਼ ਕੀਤਾ ਹੈ। CO8:. 'ਵਰਿਆਮ ਸੰਧੂ' ਦੀ ਕਹਾਣੀ ' ਚੌਥੀ ਕੂਟ' ਪੰਜਾਬ ਦੇ ਅੱਜ ਕੱਲ ਦੇ ਵਾਤਾਵਰਨ ਨੂੰ ਵਿਸ਼ਾ ਬਣਾਇਆ ਹੈ। CO9: ਜਗਜੀਤ ਬਰਾੜ ਦੀ ਕਹਾਣੀ' ਚਿੱਟੀ ਕਬੂਤਰੀ' ਦਾ ਵਿਸ਼ਾ ਗੋਰੀ ਨਸਲ ਦੀ ਇਸਤਰੀ ਪ੍ਰਤੀ ਆਕਾਸ਼ਣ, ਦੋਗਲਾ ਰੱਵਈਆ ਤੇ ਨੀਵੀ ਸੋਚ ਹੈ। CO10: ਕਿਰਪਾਲ ਕਜ਼ਾਕ ਦੀ ਕਹਾਣੀ 'ਗੁੰਮਸ਼ੁਦਾ' ਵਿੱਚ ਕਾਮ ਰੁਚੀਆਂ ਨਾਲ ਕੀਤੀ ਖਿਲਵਾੜ ਕਾਰਨ ਮਨੁੱਖੀ ਜੀਵਨ ਵਿੱਚ ਮਚੀ ਉਥਲ- ਪੁਥਲ ਹੈ। CO11: ਜਸਵਿੰਦਰ ਸਿੰਘ ਦੀ ਰਚਨਾਂ 'ਖੂਹ-ਖਾਤੇ' ਵਿੱਚ ਵਰਤਮਾਨ ਸ਼ਹਿਰੀ ਮਨੁੱਖ ਦੇ ਦੂਜਿਆਂ ਜਿਥੋਂ ਤੱਕ ਆਪਣਿਆਂ ਪ੍ਰਤੀ ਸੁਆਰਥੀ, ਕੋਰੇ, ਮੌਕਾ ਪ੍ਰਸਤ, ਸ਼ੱਕੀ ਤੇ ਅਕ੍ਰਿਤਘਣ ਰਵੱਈਏ ਦੇ ਦੀ ਝਲਕ ਪੇਸ਼ ਕਰਦੀ ਹੈ। CO12: ਬਲਵਿੰਦਰ ਗਰੇਵਾਲ ਦੀ ਰਚਨਾਂ ਮੋਹ- ਪਾਸ ਦਾ ਵਿਸ਼ਾ ਸਮਾਜ ਵਿੱਚ ਬਦਲੇਖੋਰੀਆਂ ਅਤੇ ਸੁਆਰਥ ਵਿੱਚ ਫਸੇ ਲੋਕਾਂ ਦੀਆਂ ਸੋਚਾਂ, ਸਾਜ਼ਿਸਾਂ ਤੇ ਕਾਰਜਗਾਰੀਆਂ ਨੂੰ ਵਿਦਿਆਰਥੀਆਂ ਸਾਹਮਣੇ ਪੇਸ਼ ਕਰਦਾ ਹੈ। ਵਿਆਕਰਨ: ਮੁਹਾਵਰੇ, ਪ੍ਰੈਸੀ ਰਚਨਾ, ਲੇਖ ਰਚਨਾ, ਧੁਨੀ ਗ੍ਰਾਮ, ਪਰਿਭਾਸ਼ਾ, ਖੰਡੀ ਤੇ ਅਖੰਡੀ ਧੁਨੀਆਂ ਧੁਨੀਆਂ, ਲਗਾਮਾਤਰਾਵਾਂਦੀ ਢੁੱਕਵੀ ਜਾਣਕਾਰੀ ਦੇਣੀ।ਵਿਆਕਰਨ ਹਰੇਕ ਭਾਸ਼ਾ ਦੀ ਰੀੜ ਦੀ ਹੱਡੀ ਹੰ ਦੀ ਹੈ। ਭਾਸ਼ਾ ਸਮਝਣ ਲਈ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਇਸ ਦਾ ਗਿਆਨ ਜਰੂਰੀ ਹੈ ਜੀ। Translated into English CO1: Katha - Kitab': First story 'Puhta Pandhi' by Gurbaksh Singh portrays major sahib's character. CO2: Kavita Kamiya in the story 'Baagan Da Rakha' by Sujan Singh described a humiliating situation. CO3: Kulwant Singh Virak's story 'The Bull under the Earth' tell the people of Punjab know how to live life to the fullest. CO4: Sukhwant Kaur Mann's story 'Chattu' is about the sufferings of the 1947 partition of India and Pakistan. CO5: In Gulzar Singh Sandhu's Kahani Thaggi' is a despondent man waiting for death. CO6: Mohan Bhandari's story 'Ghotna' was brought

		about by the new industrial civilization CO7: 'Bachche Di Sharart' is a work of Prem Prakash that presents the experience in a satirical way. CO8: The story of 'Varyam Sandhu' 'Chauthi Koot' to presents the period of terrorism Punjab. CO9: The subject of Jagjit Brar's story 'Chitti Kabutri' is about a white woman. CO10: Kirpal Kazak's story 'Gumushoda' plays with lust due to the upheaval in human life. CO11: Jaswinder Singh's work 'Khuh-Khate' presents urban man's problems CO12: Balvinder Grewal's works Moh-Pas' theme is revenge in society and the thoughts, plots, and activities of people trapped in selfishness. History and Culture of Punjab After competition of this course, the students will be able to: CO1: explain about Colonial Rule in Punjab i.e. Annexation of Punjab Board of Administration. CO2: explain about Western Education introduced by Britishers. CO3: explain about Agriculture Development. CO4: explain about early socio-religious reform in all religions. CO5: explain about Socio-Religious Reform Movement i.e. Arya Samaj Singh Sabha, Ahmadiyas, Ad Dharm Movement. CO6: explain about Development of press & Literature. CO7: explain about the emergence of political Consciousness i.e. Hadar movement, Jallianwala Bagh Massacre.

		CO8: describe about the Gurdwara Reform movement i.e major marchas, Activities of Babbar Akalis. CO9: describe about the freedom struggle i.e. all Monuments. CO10: explain about the Partition of Punjab and its Aftermath. CO11: explain about Post-Independence Punjab and it gives knowledge about physical, geographical maps.
1037	English	After the course, the students will be able to: CO1: explain different aspects and forms of communication. CO2: enhance their listening, speaking, reading and writing skills. CO3: develop their personality. CO4: develop confidence to participate in placement drives. CO5: show better performance in International English testing language examinations like TOEFL, IELTS.
	Computer Applications	After the course, the students will be able to: CO1: use spreadsheet. CO2: do formatting and calculations. CO3: apply worksheet functions CO4: use internet and its applications effectively.
	Basics of Design-II (Theory and Practical)	After the course, the students will be able to: CO1: use & apply design elements like Lines, Shapes, Texture & color to form and good design. CO2: explain about various types of motifs and their placements. CO3: develop a design sense through color aspects in designs. CO4: differentiate between different textures.
	Needle Craft-II	After the course, the students will be able to:

	(Theory and Practical)	CO1: apply various techniques of smoking, quilting and ribbon work. CO2: apply these techniques to develop various products.
1035	Garment Construction-II (Theory and Practical)	After the course, the students will be able to: CO1: handle different fabrics and their suitability. CO2: describe about different garment components. CO3: use various construction techniques.
1036	Textile Science-II (Theory and Practical)	After the course, the students will be able to: CO1: describe about different types of yarns CO2: identify and remove various stains. CO3: explain about different types of spinning and laundry reagents
	Garment Design-II (Theory and Practical)	After the course, the students will be able to: CO1: do various fashion details and their sketching. CO2: style and estimate material for different garments. CO3: design children garments.
393	Environmental and Road Safety Education	After the completion of course, the students will be able to: CO1: describe about plant and animal distribution patterns in relation to biotic and biotic factors. CO2: explain about essential characteristics underlying Natural ecosystems. CO3: describe about the model population and community-level dynamics. CO4: interpret and present ecological results. CO5: identify Global environmental problems. CO6: explain about Social issues and Environment issue. CO7: describe the significance of road safety. CO8: state about Police-Public relationship, Traffic rule and Traffic signs. CO9: describe about Protective provisions against domestic and sexual violence. CO10: explain about the Protective laws for women. CO11: explain about the problem of drugs abuse.

		CO12: describe about the drugs and its effects. CO13: describe about the prevention and management of drug abuse.
SEMESTER-III		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOME
	Fashion Illustration on Computer (Practical)	After the course, the students will be able to: CO1: acquire skill to design on full figure croquis to detailed specification illustrations. CO2: acquire skill to design the basis of research and innovative experiment on CAD and function for any specialized apparel category. CO3: work outward from a point of focus or inspiration to develop a complete collection on Computer.
	Garment Design-III (Practical)	After the course, the students will be able to: CO1: do designing and style reading of garments. CO2: do designing of adult garments. CO3: do style interpretation and material estimation of different garments.
1038	Traditional Textiles (Theory and Practical)	After the course, the students will be able to: CO1: explain about traditional textiles. CO2: explain about different fabrics, stitches, motifs and colors used in traditional embroideries. CO3: explain the different traditional textiles of various places and their origin. CO4: describe the history of traditional textiles through the ages in relation to art, techniques. CO5: describe about resist dyed, printed textiles and other traditional woven textiles.
	Garment Construction-III (Practical)	After the course, the students will be able to: CO1: describe about the basic fundamentals of kid's wear. CO2: acquire skill to construct sleeves and collars of kids.

		CO3: acquire knowledge and skill to make maximum usage of fabric with minimum wastage. CO4: acquire skill to stitch and present a design kids garment.
1039	Pattern Making-I (Theory and Practical)	After the course, the students will be able to: CO1: acquire knowledge of dart manipulation techniques in creating patterns. CO2: explain the language of pattern making and develop the ability to create designs through the flat pattern method. CO3: draft child's bodice block, sleeve block and collars and manipulate and draft any design.
1040	Fabric Construction-I (Theory and Practical)	After the course, the students will be able to: CO1: differentiate between different types of fabric formation methods. CO2: describe the different types of looms. CO3: describe different type of weaves and special weave effects. CO4: differentiate between graphical representations of weaves.
1041	Fashion Concepts-I (Theory)	After the course, the students will be able to: CO1: explain about clothing culture. CO2: explain about clothing communication and fashion expression in students. CO3: explain the concepts related to the various fashion processes. CO4: identify different art mediums and its application. CO5: create an overview of elements and principles of design.
SEMESTER-IV		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
	Fashion Illustration (Practical)	After completion of the course, the student will be able to:

		CO1: acquire skill to design on full figure croquis to detailed specification drawings with swatches, trimmings and details. CO2: acquire skill to design the basis of research and innovative experiment on fabric & function for any specialized apparel category. CO3: work outward from a point of focus or inspiration to develop a design.
1045	History of Indian Costumes (Theory)	After the course, the students will be able to: CO1: describe the different traditional Indian costumes of various places and their origin. CO2: explain the history of costume through the ages costumes in relation to art, fabric. CO3: explain about footwear, head dress and other accessories during different periods.
1046	Traditional Embroideries (Theory and Practical)	After the course, the students will be able to: CO1: describe the different traditional embroideries of various places and their origin. CO2: describe the history of traditional embroideries through the ages in relation to thread, stitch and fabric. CO3: explain colors, motifs and other techniques of different traditional embroideries.
1047	Fabric Construction-II (Theory and Practical)	After the course, the students will be able to: CO1: explain about different types of fabric formation methods. CO2: describe the different types of knitting machines. CO3: explain about different type of knitting machine needles and their working. CO4: explain about decorative fabric construction.
	Garment Construction-IV (Practical)	After the course, the students will be able to: CO1: acquire construction skills for basic garments for children. CO2: acquire skill to design a kid’s wear draft a pattern

		and layout of paper drafts on the fabric. CO3: acquire knowledge and skill to make maximum usage of fabric with minimum wastage. CO4: acquire skill to stitch and present kids garment.
	Pattern Making-II (Practical)	After the course, the students will be able to: CO1: explain about methods/techniques of creating pattern for a design Interpret and design and obtain knowledge on body measurement. CO2: experimental practical exercise.
1918	Fashion Concepts-II (Theory)	After the course, the students will be able to: CO1: explain about clothing culture. CO2: describe the impact of clothing communication and fashion expression in students. CO3: explain the concepts related to the various fashion terms. CO4: identify source of inspiration. CO5: create an overview of concepts of design process.
	Knitting (Practical)	After the course, the students will be able to: CO1: develop practical skills of knitting. CO2: explain about knitting tools and material. CO3: explain about different types of knitting methods.
SEMESTER-V		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOME
	Pattern and Marker Making on Computer-I (Practical)	After completion of course the students will be able to: CO1: use advanced computer aided designing and presentation software's. CO2: apply the knowledge of pattern making software for making patterns and grading. CO3: develop the skill of computer aided pattern making.
	Pattern Making-III (Practical)	After the course, the students can: CO1: acquire knowledge of dart manipulation techniques in creating patterns.

		CO2: describe the language of pattern making and develop the ability to create designs through the flat pattern method. CO3: draft basic skirt block, adaptation of skirt into different styles and grading of basic bodice, sleeve block and basic skirt block.
	Line Development and Portfolio-I (Practical)	After the course, the students can: CO1: apply the principles and knowledge of garment design development to create a collection. CO2: explain the meaning and importance of making a good portfolio. CO3: identify, organize, and gather documentation to build portfolios. CO4: explain the importance and significance of portfolios and presentations. CO5: prepare a creative portfolio which includes the best of their skills and talents.
1910	History of World Costumes (Theory)	After the course, the students can: CO1: develop an in-depth understanding of the evolution of clothing. CO2: realize the importance of Ancient civilization costumes. CO3: explain about Egyptian, Greecian, Roman and French costumes & accessories. CO4: acquire knowledge on the Medieval and Renaissance period. CO5: explain the history of world costume through the ages costumes in relation to art, fabric. CO6: explain about footwear, head dress and other accessories during different periods.
	Garment Construction-V (Practical)	After the course, the students can: CO1: acquire knowledge about construction skills for different garments. CO2: get skilled to design adult wear draft a pattern and layout of paper drafts on the fabric.

		CO3: get skilled to make maximum usage of fabric with minimum wastage. CO4: acquire skill to stitch blouse and other garments.
1053	Apparel Manufacturing Technology (Theory)	After the course, the students can: CO1: explain about the Apparel Industry and its type. CO2: explain about work flow and machineries used in Apparel sector. CO3: describe about production process in Apparel sector. CO4: tell about different departments of apparel industry and its work.
1911	Textile Dyeing (Theory and Practical)	After the course, the students can: CO1: explain the different processing methods in textiles. CO2: explain about textile dyeing & printing techniques. CO3: explain about various dyeing method. CO4: acquire a practical knowledge on textile dyeing
SEMESTER-VI		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
	Pattern and Marker Making on Computer-II (Practical)	After the course, the students can: CO1: use advanced computer aided designing and presentation software. CO2: use pattern making software for making patterns and grading.
1054	Marketing and Merchandising (Theory and Practical)	After the course, the students can: CO1: get awareness regarding marketing. CO2: study and analyze the fashion market. CO3: explain the concept of merchandising. CO4: explain regarding customer relationship.
	Pattern Making-IV (Practical)	After the course, the students can: CO1: acquire knowledge of draping techniques. CO2: describe the language of pattern making and

		develop the ability to create designs through draping method. CO3: drape basic bodice block, top, basic skirt and skirt with flare.
	Line Development and Portfolio-II (Theory and Practical)	After the course, the students can: CO1: explain the importance and significance of portfolios and presentations. CO2: prepare a creative E portfolio which includes the best of their skills and talents.
	Garment Construction-VI (Practical)	After the course, the students can: CO1: acquire construction skills for basic garments. CO2: design different garments draft a pattern and layout of paper drafts on the fabric. CO3: acquire knowledge and skill to make maximum usage of fabric with minimum wastage. CO4: stitch and present a design top, skirt and one piece dress.
1055	Textile Printing and Finishing (Theory and Practical)	After the course, the students can: CO1: explain the different processing methods in textiles. CO2: acquire a practical knowledge on textile printing techniques.
1056	Entrepreneurship and Development (Theory)	After the course, the students can: CO1: prepare the platform where the students view entrepreneurship and self-employment as a desirable career option. CO2: develop entrepreneurial orientation to innovation and creativity. CO3: explain the basic principles involved in starting and managing a new enterprise.
	Seminar	After the course, the students can: CO1: explain the topics related to fashion designing.
	Internship	After the course, the students can: CO1: develop practical skills of knitting.

PROGRAM OUTCOMES (POs)	PO1: ਐਮ.ਏ ਪੰਜਾਬੀ ਦੇ ਵਿਦਿਆਰਥੀ ਨੂੰ ਮੱਧਕਾਲੀ ਤੇ ਆਧੁਨਿਕ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦੀ ਪ੍ਰੇਰਨਾ ਮਿਲਦੀ ਹੈ। ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ, ਮੱਧਕਾਲੀ ਸਾਹਿਤ ਦੀਆਂ ਵਿਸ਼ੇਸਤਾਵਾਂ, ਸੂਫੀ ਕਾਵਿ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ ਮਿਲਦਾ ਹੈ। PO2: ਐਮ. ਏ ਪੰਜਾਬੀ ਤੋਂ ਬਾਅਦ ਰਿਸਾਰਚ, ਐਮ.ਫਿਲ, ਪੀ.ਐਚ.ਡੀ ਦੀ ਪੜ੍ਹਾਈ ਕਰਨ ਦੇ ਕਈ ਸੋਮੇ ਮਿਲਦੇ ਹਨ। PO3: ਐਮ.ਏ ਤੋਂ ਬਾਅਦ ਉਚ ਯੋਗਤਾ ਪ੍ਰਾਪਤ ਕਰਨ ਤੋਂ ਬਾਅਦ, ਲੈਕਚਰਾਰ, ਸਕੂਲ, ਅਧਿਆਪੁਕ, ਵਿਸ਼ਾ- ਮਾਹਿਰ ਤੇ ਭਾਸ਼ਾ ਵਿਭਾਗ ਦੀਆਂ ਅਨੇਕਾਂ ਪੋਸਟਾਂ ਦੇ ਮੌਕੇ ਲੈ ਸਕਦੇ ਹਨ। PO4: ਐਮ.ਏ ਪੰਜਾਬੀ ਵਿਦੇਸ਼ਾ ਵਿੱਚ ਦੀ ਪੜ੍ਹਾਈ ਜਾਂਦੀ ਹੈ, ਉਧਰ ਵੀ ਪੰਜਾਬੀ ਅਧਿਆਪਕ ਦੀ ਨੌਕਰੀ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ। PO5: ਵਿਸ਼ਾ ਮਾਹਿਰ ਦੀ ਪੋਸਟ, ਅਨੁਵਾਦਿਕ ਪੰਜਾਬੀ ਦੇ ਟਾਈਪਿਸਟ ਸਟੈਨੋ ਦੀ ਨੌਕਰੀ ਉਪਲਬਧ ਹੋ ਸਕਦੀ ਹੈ। Translation in English PO1: A student gets inspiration to read medieval and modern literature. He/She has an opportunity to study Guru Granth Sahib, features of medieval literature and Sufi poetry. PO2: After the completion of this programme, a student has many opportunities like to pursue the Research, M. Phil. and Ph.D. PO3: After obtaining higher qualification, one can avail manifold opportunities like teacher, lecturer, subject-specialist and linguist in the department of language. PO4: This progamme is taught abroad and where one can also get a job as a Punjabi teacher. PO5: Posts of subject expert, translator, and Steno Typist (Punjabi) are available for the students.

PROGRAM SPECIFIC OUTCOMES (PSOs)	PSO1: ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਤੇ ਪੰਜਾਬੀ ਸਾਹਿਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ। PSO2: ਸੱਭਿਆਚਾਰ, ਸਿਧਾਂਤ ਤੇ ਪ੍ਰਵਿਰਤੀਆਂ ਪ੍ਰਤੀ ਲਗਨ ਪੈਦਾ

	ਕਰਨਾ। PSO3: ਲੋਕ ਸਾਹਿਤ, ਲੋਕ ਕਾਵਿ ਤੇ ਆਧੁਨਿਕ ਕਾਵਿਤਾ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਦਾ। PSO4: ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਲਾਇਬ੍ਰੇਰੀ ਦੀ ਮਹੱਤਤਾ, ਲੋੜ ਤੇ ਚੰਗੇ ਸਾਹਿਤ ਬਾਰੇ ਚਾਨਣ ਪਾਉਣਾ PSO5: ਨਾਵਲ ਪੜ੍ਹਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਨਾ ਖਾਸ ਕਰਕੇ ਨਾਨਕ ਸਿੰਘ ਨਾਵਲਕਾਰ, ਦਲੀਪ ਕੌਰ ਟਿਵਾਣਾ ਤੇ ਪਾਕਿਸਤਾਨੀ ਨਾਵਲ ਪੜ੍ਹਨ ਦੀ ਰੁਚੀ ਪੈਦਾ ਕਰਨਾ Translation in English PSO1: To give information about Punjabi language and literature to the students. PSO2: To create interest among students for culture, Principles and practices. PSO3: To acquaint students with folk literature, folk poetry And modern poetry. PSO4: To encourage the students to read Eastern and Western literature that throws flood of light on various topics. PSO5: To motivate students to read novels written by Nanak Singh, Dalip Kaur Tiwana and Pakistani novels and prepare them to read fiction and stories.

COURSE OUTCOMES (COs)

SEMESTER-I		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
2364	Paper-1st ‘ਮੱਧਕਾਲੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ’	CO1: ਮੱਧਕਾਲੀਨ ਸਾਹਿਤ ਦੇ ਅਧਿਐਨ ਕਰਨ ਨਾਲ ਵਿਦਿਆਰਥੀ ਗੁਰਬਾਣੀ, ਗੁਰੂ-ਕਾਵਿ, ਪੂਰਵ ਨਾਨਕ ਕਾਲ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮੱਰਥ ਬਣਦੇ ਹਨ, ਉਸ ਸਮੇਂ ਦੇ ਯਾਨੀ 1500 ਤੋਂ ਪਹਿਲਾਂ ਤੇ ਬਾਅਦ ਨਾਥ ਜੋਗੀ, ਸੂਫੀ ਕਾਵਿ ਦੀ ਡੂੰਘੀ ਜਾਣਕਾਰੀ ਤੇ ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਦੇ ਦੀਆਂ ਅਧਿਐਨ ਕਰਨ ਦੀ ਲਗਨ ਪੈਦਾ ਹੁੰਦੀ ਹੈ। CO2: ਗੁਰੂ ਕਾਵਿ ਤੇ ਲੋਕ ਕਾਵਿ ਨੂੰ ਆਧਨਿਕ ਵਿਧੀ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਦੀ ਦਿਲਚਸਪੀ ਵਿਦਿਆਰਥੀਆਂ

		ਵਿਚ ਪੈਦਾ ਹੁੰਦੀ ਹੈ । CO3: ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (1501-1850) ਈ. ਤੱਕ ਸੂਫੀ-ਕਾਵਿ, ਗੁਰਮਤਿ ਕਾਵਿ, ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਦਾਰਸ਼ਨਿਕ ਅਤੇ ਅਧਿਆਤਮਕ ਗਿਆਨ ਦੀ ਪ੍ਰਾਪਤੀ ਕਰਦੇ ਹਨ। CO4: ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸੂਫੀ ਕਾਵਿ-ਬਾਬਾ ਫਰੀਦ, ਲੋਕ ਕਾਵਿ ਤੇ ਸਮੁਚੇ ਪੁਰਾਤਨ ਤੇ ਆਧੁਨਿਕ ਸੱਭਿਆਚਾਰ ਦੀ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ CO5: ਇਨਾਂ ਵਿਧਾਵਾ ਦੇ ਅਧਿਐਨ ਨਾਲ ਸਮੱਚੀ ਮਾਨਵਤਾ ਦੀ ਬਿਹਤਰੀ ਅਤੇ ਪੂਰਵ ਨਾਲ ਕਾਲ ਤੇ ਨਾਨਕ ਕਾਲ ਤੋਂ ਬਾਅਦ ਦੇ ਸਮੁੱਚੇ ਸਾਹਿਤ ਦਾ ਵਿਧੀ ਪੂਰਵਕ ਗਿਆਨ ਹਾਸਿਲ ਹੁੰਦਾ ਹੈ । CO6: ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਸਮੁੱਚੇ ਅਧਿਐਨ ਨਾਲ ਵਿਦਿਆਰਥੀ ਉਸ ਸਮੇਂ ਦੀ ਸਮਾਜਿਕ, ਆਰਥਿਕ ਤੇ ਸੱਭਿਆਚਾਰਕ ਪ੍ਰਸਥਿਤੀਆਂ ਦਾ ਗਿਆਨ ਪ੍ਰਾਪਤ ਹੁੰਦਾ ਹੈ । ਕਿੱਸਾ ਕਾਵਿ, ਬੀਰ ਕਾਵਿ, ਮੱਧਕਾਲੀ ਵਾਰਤਕ ਦਾ ਨਿਕਾਸ ਤੇ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸੱਭਿਆਚਾਰ ਦੇ ਡੂੰਘੇ ਅਧਿਐਨ ਦੀ ਲਗਨ ਪੈਦਾ ਕਰਦੇ ਹਨ ਅਤੇ ਇਸਦੀ ਮਹੱਤਤਾ ਨੂੰ ਸਮਝਦੇ ਹਨ। CO7: ਮੱਧਕਾਲੀ ਸਾਹਿਤ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਉਸ ਸਮੇ ਦੀਆਂ ਸਾਹਿਤਕ ਰਾਜਨੀਤਿਕ, ਸੱਭਿਆਚਾਰਕ ਅਤੇ ਲੋਕਧਾਰਈ ਪ੍ਰਸਥਿਤੀਆਂ ਤੋਂ ਜਾਣੂ ਹੁੰਦੇ ਹਨ। ਇਨਾਂ ਕਲਾਵਾਂ ਨੂੰ ਸਮਝਣਾ ਤੇ ਅਨੁਭਵ ਕਰਨ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ। CO8: ਸੂਫੀ ਕਾਵਿ ਵਿੱਚ ਬਾਬਾ ਫਰੀਦ ਦੇ 112 ‘ਸਲੋਕ ਜਿਹੜੇ ਕਿ ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਵਿੱਚ ਦਰਜ ਹਨ, ਪੰਜਾਬੀ ਬੋਲੀ ਤੇ ਵਾਰਾਂ ਦੀ ਧੁਨੀ ਦਾ ਜਿਕਰ ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਗੁਰੂ ਕਵੀਆਂ ਨੂੰ ਸਮਝਣ ਲਈ ਸਭ ਤੋਂ ਵੱਡਾ ਜਰੀਆ ਬਣਦੇ ਹਨ। CO9: ਸੂਫੀ ਕਾਵਿ ਤੇ ਗੁਰਮਤਿ ਕਾਵਿ ਦੀ ਸਾਂਝ ਤੇ ਇਸਦਾ ਤੁਲਾਨਤਮਕ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮੌਜੂਦਾ ਜ਼ਿੰਦਗੀ ਦੇ ਸੰਧਰਭ ਵਿੱਚ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਬਣਾਉਦਾ ਹੈ। Translation in English CO1: The study of medieval literature enables students to understand Gurbani, Guru-Kav, Pre Nanak Era, Naths and Jogis of 15th century and creates interest to study Sufi poetry and Guru Granth Sahib. CO2: It encourages students to make the comparative

		study of poetry composed by Gurus and folk poetry with modern methods. CO3: Students acquire philosophical and spiritual knowledge of the history of medieval Punjabi literature (1501-1850) AD through the study of Sufi-poetry and Gurmat poetry. CO4: Students get knowledge about the Sufi poetry especially of Baba Farid, folk poetry and complete ancient and modern culture. CO5: The study of these genres teaches us the lesson of human betterment and provides the systematic knowledge of the entire literature of the pre and post Nanak period. CO6: With the overall study of medieval Punjabi literature, students come to know about the social, economic and cultural conditions of that time. The genres like Kissa Kav, Veer Kav and the emergence and evolution of medieval prose encourage students to have a deep knowledge of culture and understand its importance. CO7: Medieval literature familiarizes students with the literary, political, cultural and folkloric contexts of the time and enables them to understand and experience these arts. CO8: There are 112 Sufi slokas of Baba Farid inscribed in the Guru Granth Sahib. The knowledge of Punjabi language and the sound of the vaars Encourage students to know and understand the Gurus and poets. CO9: A comparative study of the relationship between Sufi poetry and Gurmat poetry enables the students to understand life in the current context.
2365	ਪੇਪਰ ਦੂਜਾ- ਸਾਹਿਤ ਸਿਧਾਂਤ, ਸਨਾਤਨੀ	CO1: ਪੰਜਾਬੀ ਆਲੋਚਨਾ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੀਆ ਪਰਤਾਂ ਨੂੰ ਸਮਾਜ ਅਤੇ ਸਭਿਆਚਾਰ ਦੇ ਵੱਖ-ਵੱਖ

	ਕਾਵਿ-ਸ਼ਾਸਤਰ ਅਤੇ ਪੰਜਾਬੀ ਆਲੋਚਨਾ Literary Theory, Traditional Poetics, and, Punjabi Criticism	ਪ੍ਰਸੰਗਾਂ ਵਿੱਚ ਸਮਝਣ ਦੇ ਯੋਗ ਹੋ ਜਾਂਦੇ ਹਨ। CO2: ਸ਼ਾਹਿਤ ਸਿਧਾਂਤ ਸੰਬੰਧੀ ਜਦੋਂ ਵਿਦਿਆਰਥੀ ਅਧਿਐਨ ਕਰਦੇ ਹਨ ਤਾਂ ਉਨ੍ਹਾਂ ਨੂੰ ਸਾਹਿਤ ਬਾਰੇ ਉਸ ਦੇ ਵੱਖ-ਵੱਖ ਪਸਾਰਾਂ ਜਿਵੇਂ ਪ੍ਰਕਿਰਤੀ, ਪ੍ਰਯੋਜਨ ਆਦਿ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹੁੰਦੀ ਹੈ। CO3: ਸਾਹਿਤ ਦੀਆਂ ਵੱਖ-ਵੱਖ ਧਾਰਾਵਾਂ, ਰਹੱਸਵਾਦ, ਰੁਮਾਂਸਵਾਦ, ਪਦਾਰਥਵਾਦ ਆਦਿ ਦੀ ਜਾਣਕਾਰੀ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਦੀ ਪ੍ਰਕਿਰਤੀ ਸੰਬੰਧੀ ਸਮੁੱਚੀ ਜਾਣਕਾਰੀ ਹਾਸਲ ਹੁੰਦੀ ਹੈ। CO4: ਗਰੀਕੋ ਰੋਮਨ ਕਾਵਿ-ਸ਼ਾਸਤਰ ਰਾਹੀਂ ਅਰਸਤੂ, ਲੌਜਾਂਇਨਜ਼ ਆਦਿ ਜਿਹੇ ਵਿਦਵਾਨਾਂ ਦੇ ਸਾਹਿਤ ਨਾਲ ਵਿਦਿਆਰਥੀਆ ਦੀ ਸਾਂਝ ਵੱਧਦੀ ਹੈ ਅਤੇ ਉਨ੍ਹਾਂ ਵਿੱਚ ਰਚਨਾਤਮਕ ਬਿਰਤੀ ਉਜਾਗਰ ਹੁੰਦੀ ਹੈ। CO5: ਭਾਰਤੀ ਕਾਵਿ-ਸ਼ਾਸਤਰ ਦਾ ਅਧਿਐਨ ਕਰਦੇ ਸਮੇਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਰਸ ਸੰਪਰਦਾਇ, ਧੁਨੀ ਸੰਪਰਦਾਇ, ਅਲੰਕਾਰ ਸੰਪਰਦਾਇ ਦੀ ਸਮਝ ਪੈਂਦੀ ਹੈ। ਇਸ ਤਰ੍ਹਾਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਰਚਨਾ ਕਰਨ ਵਿੱਚ ਸੁਖੈਨਤਾ ਹਾਸਲ ਹੁੰਦੀ ਹੈ। Punjabi outcomes translated into English CO1 Through Punjabi criticism students can understand the layers of literature in different contexts of society and culture. CO2 Regarding literaryTheory When students study, they have knowledge about literature in its various aspects like nature, purpose, etc, CO3 Through the knowledge of various streams of literature, mysticism, romanticism, materialism, etc,., the students get the overall knowledge about the nature of literature.

		CO4 Through Greco-Roman poetry, the association of students with the literature of scholars like Aristotle, etc. increases, and, the creative spirit is revealed in them. CO5 While studying Indian poetics, students get to understand the rather sect, sound sect, meta, and or sect. In this way, students get ease in creating literature.
2366	Paper 3 Opt 1 ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਕਾਵਿ	CO1: ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਕਾਵਿ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲ ਦੇ ਸਮੇਂ ਨੂੰ ਜਾਣਨ ਦੇ ਨਾਲ-ਨਾਲ ਰਹੱਸਵਾਦ, ਅਧਿਆਤਮਵਾਦ ਅਤੇ ਗੁਰਮਤਿ ਦੇ ਸਿਧਾਂਤਾ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਬਣਦੇ ਹਨ । ਉਸ ਸਮੇਂ ਦੀਆਂ ਸਮਾਜਿਕ, ਆਰਥਿਕ, ਸਭਿਆਚਾਰਕ ,ਰਾਜਨੀਤਿਕ ਅਤੇ ਇਤਿਹਾਸਕ ਪ੍ਰਸਥਿਤੀਆਂ ਨੂੰ ਜਾਣਨ ਦੇ ਨਾਲ-ਨਾਲ ਨੈਤਿਕ ਮੁੱਲਾਂ ਨਾਲ ਜੁੜ ਕੇ ਚੰਗੀ ਜੀਵਨ ਸਿੱਖਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । ਵਿਦਿਆਰਥੀ ਗੁਰੂ ਸਾਹਿਬਾਨਾਂ, ਸੂਫੀ ਕਵੀਆਂ ਅਤੇ ਕਿੱਸਾਕਾਰਾਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਰਾਹੀਂ ਪੰਜਾਬੀ ਦੇ ਮੁਢਲੇ ਸਾਹਿਤ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਕੇ ਰਚਨਾਕਾਰਾਂ ਦੀ ਉਚੇਰੀ ਤੇ ਡੂੰਘੀ ਸੂਝ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । ਮੱਧਕਾਲ ਦੇ ਸਮੇਂ ਦੀਆਂ ਵੱਖ-ਵੱਖ ਵੰਨਗੀਆਂ (ਵਾਰ, ਸ਼ਲੋਕ, ਸ਼ਬਦ, ਕਾਫੀ ਅਤੇ ਕਿੱਸੇ ਆਦਿ) ਦੇ ਵਿਸ਼ੇਗਤ ਅਤੇ ਕਲਾਤਮਕ ਨਿਯਮਾਂ ਤੋਂ ਜਾਣੂੰ ਹੁੰਦੇ ਹਨ। ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲ ਦੇ ਸਮੇਂ ਦੀਆਂ ਪ੍ਰਸਥਿਤੀਆਂ ਅਤੇ ਵੱਖ-ਵੱਖ ਪ੍ਰਵਿਰਤੀਆਂ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਬਣਦੇ ਹੋਏ ਮੱਧਕਾਲ ਦੇ ਦਾਰਸ਼ਨਿਕ ਪਿਛੋਕੜ ਬਾਰੇ ਸੂਝ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ । CO2: ਸ਼੍ਰੀ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਦੀ ਰਚਨਾ 'ਜਪੁਜੀ ਸਾਹਿਬ' ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਦਾਰਸ਼ਨਿਕ ਅਤੇ ਅਧਿਆਤਮਕ ਪੱਖਾਂ ਬਾਰੇ ਗਿਆਨ ਪ੍ਰਾਪਤ ਕਰਕੇ ਨੈਤਿਕ ਗੁਣਾਂ ਦੇ ਧਾਰਨੀ ਬਣਦੇ ਹਨ । ਗੁਰੂ ਸਾਹਿਬਾਨ ਦੁਆਰਾ ਦਰਸਾਏ ਅਧਿਆਤਮਕ ਗਿਆਨ ਦੀ ਪ੍ਰਾਪਤੀ ਦੇ ਨਾਲ-ਨਾਲ ਗੁਰਮਤਿ ਦੇ ਕਲਾ ਪੱਖਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ । ਸਿਲੇਬਸ ਦੇ ਇਸ ਭਾਗ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮੁੱਚੀ ਮਾਨਵਤਾ ਦੀ ਬਿਹਤਰੀ ਲਈ ਚੰਗੇ ਕਾਰਜ ਕਰਨ ਦੀ ਪ੍ਰੇਰਨਾ ਮਿਲਦੀ ਹੈ । ਇਸ ਰਚਨਾ ਦੇ ਅਧਿਐਨ ਉਪਰੰਤ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਅਕਾਦਮਿਕ ਪੜ੍ਹਾਈ ਦੇ ਨਾਲ-ਨਾਲ ਜੀਵਨ ਦੇ ਅਸਲੀ ਮਨੋਰਥ ਦਾ ਗਿਆਨ ਪ੍ਰਾਪਤ ਹੁੰਦਾ ਹੈ । CO3: 'ਸੂਫੀ ਕਾਵਿ' ਦੇ ਅੰਤਰਗਤ ਵਿਦਿਆਰਥੀ ਜਿਥੇ ਮੱਧਕਾਲ ਦੇ ਸਮੇਂ ਵਿਚ ਹੋਏ ਸੂਫੀ ਕਵੀਆਂ ਦੇ ਜੀਵਨ ਬਾਰੇ ਵਿਸਥਾਰ ਵਿਚ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ ਉੱਥੇ ਸੂਫੀ-ਕਾਵਿ ਦੇ ਨਿਕਾਸ, ਵਿਕਾਸ ਅਤੇ ਪਤਨ ਬਾਰੇ ਵਿਸਥਾਰਪੂਰਵਕ ਗਿਆਨ ਹਾਸਿਲ ਕਰਦੇ ਹਨ । ਸੂਫੀ ਕਵੀ ਸ਼ਾਹ ਹੁਸੈਨ ਦੀ ਰਚਨਾ (ਕਾਫੀਆਂ) ਵਿਚਲੀ ਸੂਫੀ ਵਿਚਾਰਧਾਰਾ ਨੂੰ ਜਾਣਨ ਦੇ ਨਾਲ-ਨਾਲ ਕਾਫੀ ਸਾਹਿਤ ਰੂਪ ਦੇ ਕਲਾਤਮਕ ਪੱਖਾਂ ਬਾਰੇ ਗਿਆਨ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ । ਸੂਫੀ ਕਵੀਆਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਉਸ ਸਮੇਂ ਦੀਆਂ ਸਾਹਿਤਕ, ਰਾਜਨੀਤਿਕ, ਸਭਿਆਚਾਰਕ ਅਤੇ ਲੋਕਧਾਰਾਈ ਪ੍ਰਸਥਿਤੀਆਂ ਤੋਂ

		ਜਾਣੂੰ ਹੁੰਦੇ ਹਨ । ਵਿਦਿਆਰਥੀ ਸੂਫੀ ਕਵੀਆਂ ਦੇ ਕਾਵਿ-ਅਨੁਭਵ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । CO4: ਕਿੱਸਾ ਕਾਵਿ ਦੇ ਅੰਤਰਗਤ ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲ ਦੇ ਸਮੇਂ ਕਿੱਸੇ ਦੀ ਉਤਪਤੀ, ਵਿਕਾਸ ਤੇ ਪਤਨ ਦੇ ਕਾਰਨਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ । ਕਿੱਸਾ ਕਾਵਿ ਨੂੰ ਪੜ੍ਹਨ ਉਪਰੰਤ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਉਸ ਸਮੇਂ ਦੇ ਸਮਾਜ ਦੀਆਂ ਸਮਾਜਿਕ ਇਤਿਹਾਸਕ ਅਤੇ ਸਭਿਆਚਾਰਕ ਪ੍ਰਸਥਿਤੀਆਂ ਦਾ ਗਿਆਨ ਹੁੰਦਾ ਹੈ । ਹਾਸ਼ਮ ਦੇ ਕਿੱਸੇ ਸੱਸੀ ਪੁੰਨੂ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਉਸ ਸਮੇਂ ਦੇ ਸਮਾਜ ਦੀ ਸਮਾਜਿਕ ਅਤੇ ਸਭਿਆਚਾਰਕ ਤਸਵੀਰ ਨੂੰ ਡੂੰਘਾਈ ਵਿਚ ਜਾ ਕੇ ਦੇਖਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । ਕਿੱਸਿਆ ਦੇ ਕਲਾਤਮਕ ਗੁਣਾਂ ਅਤੇ ਸਭਿਆਚਾਰਕ ਮਹੱਤਤਾ ਨੂੰ ਸਮਝਦੇ ਹਨ । Translated into English CO1: Through the study of medieval Punjabi poetry, students can know the medieval period as well as understand the principles of mysticism, spiritualism, and Gurmatism. Along with knowing the social, economic, cultural, political, and historical conditions of that time, they are capable of learning a good life by connecting with moral values. Through the works of Gurus, Sufi poets, and storytellers, the students can understand the high and deep insight of the authors by getting information about the early literature of Punjabi. It is known from the thematic and artistic norms of different genres (var, shloka, Shabad, kafi, and kise, etc.) of the medieval period. Students gain insight into the philosophical background of the Middle Ages, being able to understand the conditions and various tendencies of the medieval period. CO2: Through the study of Sri Guru Nanak Dev Ji's work Japuji Sahib students acquire knowledge about philosophical and spiritual aspects and become possessors of moral qualities. Along with acquiring the spiritual knowledge shown by the Gurus, they get information about the artistic aspects of Guru

		Mati. Through this section of the syllabus, the students get inspiration to do good work for the betterment of the entire humanity. After studying this work, students get knowledge of the real purpose of life along with academic studies. CO3: Under Sufi poetry, where the students get detailed information about the lives of Sufi poets in the medieval period, they get detailed knowledge about the emergence, development, and decline of Sufi poetry. Along with knowing the Sufi ideology in the works (Kafis) of Sufi poet Shah Hussain, one gets knowledge about the artistic aspects of Kafi's literary form. Through the works of Sufi poets, students get to know about the literary, political, cultural, and folkloric conditions of that time. Students can understand the poetic experience of Sufi poets. CO4: Under Kissa Kavi, students gain knowledge about the origin, development, and decline of Kissa during the medieval period. After reading the short story, the students know the social history, and cultural conditions of the society at that time. Through the study of Hashem's story Sassi Punnu, students are able to see the social and cultural picture of the society of that time in depth. They understand the artistic qualities and cultural significance of the story.
2368	g/go u"Ek L (nkgPB I) gzikph Bktb dk nfXn?B	CO1: gzikph Bktb d/ nfXn?B Bkb ftfdnkoEh ;wki dhnK T[j gosK ;wMD d/ :'r j' iKd/ jB, fijBK pko/ T[jBK B{z gfjbk e'Jh frnkB BjhA j[zdk. CO2: gftZso gkgh, Bktb d/ gkm T[gozs ftfdnkoEhnK B{z ikBD dk w"ek fwfbnk j? fe nkofEe wzdjkbh dh jkbs ftZu

		fizdrh fet/A pshs ehsh iKdh j?. d[{finK dh wZdd eoB dh GktBk th fJ; Bktb ftZu'A g?dk j[zdh j?. CO3: i[r pdb frnk* Bktb okjhA ftfdnkoEhnK nzdo fJj GktBk g?dk j[zdh j? fe nkofEe wIp{ohnK ns/ b'eK d/ fsq;eko d/ pkti{d fJB;kB fwjBs d/ ;jko/ ;t?^fBoGo j' ;edk j?. CO4: g{oBwkPh Bktb okjhA ftfdnkoEhnK B{z fe;kBh ihtB, irhodkoh ;fGnkuko ftZu n"os dh dPk nkfd gZyK dk frnkB j[zdk j?. Translation in English CO1: The study of the Punjabi novel enables students to have understanding of the layers of the society of which they have no prior knowledge. CO2: After reading the novel Pavitar Pappi, the students have got an opportunity to know how to live life in the condition of economic depression. The feeling of helping others also arises from this novel. CO3: The novel Jug Badal Gaya teaches the students a lesson that despite economic constraints and humiliations a person can become self-reliant with the help of hard work. CO4: The study of novel Poornmashi provides students an opportunity to know about peasant life, status of women in feudal culture etc.
2369	**Paper IV (Opt.II) pMjwbI khwxI dw AiDAYn**	CO1: sMq isMG syKoN dy khwxI sMgRih 'smwcwr' dIAw khwxIAW pVHky ividAwrQIAW nMU pMjwbI dI pRgqIvwdI khwxI bwry pqw l`gdw hY[ies rwhIN ividAwrQIAW nMU pMjwbI dy ikswnI

		jIvn, pMjwbI ikswnI dIAw sm`isAwvW qy pMjwbI siBAwcwr dy hor Anyk p`KW bwry jwxkwrI imldI hY[CO2: kulvMq isMG ivrk dw khwxI sMgRih 'duAwdSI' pVHky ividAwrQI pMjwbI siBAwcwr iv`c Aw rhIAW qbdIlIAW , ienswn dIAw mno-ivigAwnk guMJlW qy dyS dI vMf dy duKWq pRqI jwxMU huMdy hn  CO3: virAwm isMG sMDU dy khwxI sMgRih 'cOQI kUt' rwhIN ividAwrQI pMjwb dy duKWqk dOr bwry jwxMU huMdy hn jdoN ienswn dw ienswn qoN Brosw ^qm ho igAw sI[ ies qoN ielwvw pMjwbI in`kI khwxI dIAW rUpk qbdIlIAW bwry vI ividAwrQIAW nMUMu jwxkwrI imldI hY[Translation in English CO1: By reading the stories from Sant Singh Sekhon's Collection Samachar, the students get to know about the progressive story of Punjabi. The students get information about the life of peasants, their problems and other aspects of Punjabi culture. CO2: By reading Kulwant Singh Virak's collection of stories Duadashi, students get to know about the changes that are taking place in Punjabi culture, the psychological complexities of human beings and the tragedy of the partition of the country. CO3: The study of Waryam Singh Sandhu's story Collection Chauthi Koot provides knowledge About the tragic period of Punjab when people lost

		trust in each other. Apart from this, the students also get information about the metaphorical changes of the Punjabi short story.
SEMESTER-II		
2372	Paper 5 **AwDuink pMjwbI dw ieiqhws**	CO1: ਸੰਕ੍ਰਾਤੀ ਕਾਲ (1850-1900 ਈ: ਹੱਕ) ਮੱਧਕਾਲੀ ਤੇ ਆਧੁਨਿਕ ਬੋਧ ਵਿੱਚ ਅੰਤਰ ਬਾਰੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ। CO2: ਸੰਕ੍ਰਾਤੀ ਕਾਲ ਦੇ ਲੱਛਣਾਂ ਬਾਰੇ ਗੱਲਬਾਤ ਕਰਦਿਆਂ ਧਾਰਮਿਕ ਤੇ ਇਸਾਈ ਮਿਯਨਰੀਆਂ ਦੀਆ ਲਹਿਰਾਂ ਦੇ ਯੋਗਦਾਨ ਬਾਰੇ ਗਿਆਨ ਹਾਸਿਲ ਕਰਦੇ ਹਨ। । CO3: 1850 ਤੋਂ 1900 ਈ: ਤੱਕ ਰਚਿਆ ਕਿੱਸਾ-ਕਾਵਿ, ਸੂਫੀ ਕਵਿ ਵਾਰਾਂ ਤੇ ਜੰਗਨਾਮਿਆਂ ਬਾਰੇ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ। CO4: ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਨਵ ਰਹੱਸਵਾਦੀ, ਰੁਮਾਟਿਕ ਪ੍ਰਗਤੀਵਾਦੀ, ਜੁਝਾਰਵਾਦੀ ਕਾਵਿ-ਧਾਰਾਵਾਂ ਦੇ ਹਵਾਲਿਆਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਇਨ੍ਹਾਂ ਪ੍ਰਸਥਿਤੀਆਂ ਨੂੰ ਸਮਝਣ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰਦੇ ਹਨ। CO5: ਵੀਹਵੀ ਸਦੀ ਦੀ ਗਲਪ- ਨਾਵਲ, ਕਹਾਣੀ, ਰੰਗ-ਮੰਚ, ਨਿਬੰਧ ਜੀਵਨੀ, ਸਵੈ-ਜੀਵਨੀ, ਜਫਰਨਾਮਾ ਤੇ ਰੇਖ ਚਿਤਰ ਦਾ ਇਤਿਹਾਸ ਮੂਲ ਅਧਿਐਨ ਕਰਦਿਆਂ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਇਨ੍ਹਾਂ ਵਿਧਾਵਾਂ ਨੂੰ ਪੜ੍ਹਨ ਦੀ ਰੁਚੀ ਪੈਦਾ ਹੁੰਦੀ ਹੈ। CO6: ਜੀਵਨੀ- ਸਵੈ ਜੀਵਨੀ ਦਾ ਫਰਕ, ਜਫਰਨਾਮਾ (ਯਾਤਰਾ ਦਾ ਹਾਲ) ਤੇ ਰੇਖਾ-ਚਿਤਰ ਪੜ੍ਹਨ ਦੀ ਰੁਚੀ ਪੈਦਾ ਹੁੰਦੀ ਹੈ। ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਨ੍ਹਾਂ ਵਿਧਾਵਾਂ ਵਿੱਚ ਅੰਤਰ ਸਮਝਣ ਦੀ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ। CO7: ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜੀਵਨੀ ਤੇ ਸਵੈ- ਜੀਵਨੀ ਦਾ ਅੰਤਰ ਸਮਝਾਉਂਦਿਆਂ ਵੱਡੇ ਲੇਖਕਾਂ ਦੀਆਂ ਜੀਵਨੀਆਂ ਤੇ ਸਵੈ-ਜੀਵਨੀਆਂ ਪੜ੍ਹਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦਾ ਹੈ। CO8: ਸੂਫੀ ਕਾਵਿ - ਬਾਬਾ ਫਰੀਦ , ਸ਼ਾਹ ਹੁਸੈਨ, ਬੁੱਲੇ ਸ਼ਾਹ ਤੇ ਗੁਲਾਮ ਫਰੀਦ ਦੇ ਅਧਿਐਨ ਨਾਲ ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਦੇ ਵਿਧੀਪੂਰਵਕ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਦੇ ਹਨ। CO9: ਧਾਰਮਿਕ ਤੇ ਇਸਾਈ ਮਿਸ਼ਨਰੀ ਲਹਿਰਾਂ ਨਾਲ ਆਧੁਨਿਕ ਸਾਹਿਤ ਤੇ ਕੀ ਪ੍ਰਭਾਵ ਪੈਂਦਾ ਹੈ ਤੇ ਇਨ੍ਹਾਂ ਲਹਿਰਾਂ ਦੀ ਲੋੜ ਕਿਉਂ ਪਈ ? ਇਹ ਕਿਵੇਂ ਧਰਮ ਦਾ ਪ੍ਰਚਾਰ ਕਰਦੀਆਂ ਹਨ। ਵਿਦਿਆਰਥੀ ਇਹਨਾਂ ਲਹਿਰਾਂ ਨੂੰ ਸਮਝਣ ਦੇ ਯੋਗ ਬਣਦੇ ਹਨ।

		CO10: ਜੰਗਨਾਮੇ ਤੇ ਵਾਰਾਂ ਜਿਹੜੇ 1850 ਤੋਂ 1900 ਈ: ਤੱਕ ਰਚੇ ਗਏ, ਸ੍ਰੀ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਦੀ ਚੰਡੀ ਦੀ ਵਾਰ ਤੇ ਹੋਰ 9 ਵਾਰਾਂ ਦਾ ਅਧਿਐਨ ਕਰਨ ਨਾਲ ਭਾਈ ਗੁਰਦਾਸ ਦੀਆਂ ਵਾਰਾਂ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ। Translation in English CO1: It provides students information about the difference between medieval and modern philosophy of Sankranti Period to 20th century. CO2: while discussing the characteristics of the Sankranti period, one gains knowledge about the contribution of religious and Christian movements. CO3: Kissa Kav and Sufi poetry composed during 1850 to 1900 tell about battles. CO4: Neo-mystical, romantic, progressives and aggressive poetic trends of Punjabi literature provide ample opportunity to understand the situations of that time. CO5: By studying the history of 20th century fiction- novel, story, theater, biographies, autobiographies, Jafarnama and Rekh Chitra, the students become interested in reading these genres. CO6: The difference between biography and autobiography, Jafarnama (travelogue) inspire students to read the sketches. Students get to know the difference between these genres. CO7: While explaining the difference between biography And autobiography, history of Modern Punjabi Literature motivates students to read biographies and autobiographies of great writers. CO8: The study of Sufi poets – Baba Farid, Shah Hussain, Bulleh Shah and Ghulam Farid provides students a methodical account of the Guru Granth Sahib.

		CO9: What was the effect of religious and Christian Missionary movements on modern literature and what was the need of these movements? How did they propagate religion? Students get to know about these movements. CO10: The study of Janganamas and Vars which were composed from 1850 to 1900 AD and Sri Guru Gobind Singh's Chandi Di Var and other 9 Vars, enable one to understand the Vars of Bhai Gurdas.
2373	**pypr CyvW-AwDuink p`CmI kwiv-Swsqr Aqy ivhwrk Awlocnw** Modern Western Poetics and Practical Criticism	CO1: AwDuink p`CmI kwiv-Swsqr dw AiDAYn krdy hoey ividAwrQIAW nMU rUsI rUpvwd dy mUl sMklpW dI jwxkwrI imldI hY[nv-AmrIkI skUl dy mUl sMklpW dI jwxkwrI vI imldI hY[auprokq swihq dw AiDAYmn krky ividAwrQIAW nMu pMjwbI swihq nwl auprokq dw imlwx krn dI sUJ imldI hY[CO2: sMrcnwvwd Aqy auqr-sMrcnwvwd rwhIN swihq dIAW v`K-v`K DwrwvW bwry ividAwrQIAW nMu jwxkwrI imldI hY[CO3: mwrksvwdI swihq isDWq rwhIN ividAwrQIAW nMu mwrksvwdI swihq dIAW v`K-v`K pRvIrqIAW dI jwxkwrI imldI hY[mwrksvwdI swihq dI ivcwrDwrw, vsqU Aqy rUp, pRqIb`Dqw Aqy nv-mwrksvwd bwry jwxkwrI ividAwrQIAW dIAw swihqk rucIAw nMU cMf krn dw kMm krdI hY[ CO4: ivhwrk Awlocnw rwhIN ividAwrQIAw iv`c swihq nMU smJx Aqy ausdI audwrqqw nMU Awpxyy ihrdy iv`c smwaux dI pRblqw BwrU huMdI hY[Translated into English CO1: Students are introduced to the basic concepts of Russian formalism while studying modern Western poetics. Basic concepts of the neo-American school are also covered. By studying the above literature, the students get the insight to

		combine the above with Punjabi literature. CO2: Students get information about various streams of literature through structuralism and post-structuralism. CO3: Through Marxist literary theory, students get information about various tendencies of Marxist literature. Information about the ideology, object and form, commitment, and, neo-Marxism of Marxist literature serves to stimulate the literary interests of the students. CO4: Emphasis is placed on understanding literature through practical criticism and imbibing its generosity in one's heart.
2374	Paper 7 Opt 1 ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਕਾਵਿ-II	CO1: ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਕਾਵਿ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲ ਦੇ ਸਮੇਂ ਨੂੰ ਜਾਣਨ ਦੇ ਨਾਲ ਰਹੱਸਵਾਦ, ਅਧਿਆਤਮਵਾਦ ਅਤੇ ਗੁਰਮਤਿ ਦੇ ਸਿਧਾਤਾਂ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । ਵਿਦਿਆਰਥੀ ਬਿਰਤਾਂਤਕ ਕਵਿਤਾ ਦੇ ਗੁਣਾਂ, ਲੱਛਣਾਂ, ਅਤੇ ਪਵਿਰਤੀਆਂ ਤੋਂ ਜਾਣੂੰ ਹੁੰਦੇ ਹਨ । CO2: ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ ਦੀ ਰਚਨਾਂ ਸੁਖਮਨੀ ਸਾਹਿਬ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਦਾਰਸ਼ਨਿਕ ਅਤੇ ਅਧਿਆਤਮਕ ਪੱਖਾਂ ਬਾਰੇ ਗਿਆਨ ਪ੍ਰਾਪਤ ਕਰਕੇ ਨੈਤਿਕ ਗੁਣਾਂ ਦੇ ਧਾਰਨੀ ਬਣਦੇ ਹਨ । ਇਹ ਰਚਨਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮੁੱਚੀ ਮਾਨਵਤਾ ਦੀ ਬਿਹਤਰੀ ਲਈ ਚੰਗੇ ਕਾਰਜ ਦੀ ਪ੍ਰੇਰਨਾ ਦਿੰਦੀ ਹੈ । ਵਿਦਿਆਰਥੀ ਅਕਾਦਮਿਕ ਪੜ੍ਹਾਈ ਦੇ ਨਾਲ-ਨਾਲ ਜੀਵਨ ਦੇ ਅਸਲੀ ਮਨੋਰਥ ਦਾ ਗਿਆਨ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ । CO3: ਸੂਫੀ ਕਾਵਿ ਦੇ ਅੰਤਰਗਤ ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲੀ ਦੇ ਸਮੇਂ ਵਿਚ ਹੋਏ ਸੂਫੀ ਕਵੀਆਂ ਦੇ ਜੀਵਨ ਬਾਰੇ ਵਿਸਥਾਰ ਵਿਚ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ । ਸੂਫੀ ਕਾਵਿ ਦੇ ਨਿਕਾਸ, ਵਿਕਾਸ ਅਤੇ ਪਤਨ ਦੇ ਕਾਰਨਾਂ ਬਾਰੇ ਸੂਝ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ । ਸੂਫੀ ਕਵੀ ਬੁੱਲ੍ਹੇ ਸ਼ਾਹ ਦੀ ਰਚਨਾ (ਕਫੀਆਂ) ਵਿਚਲੀ ਵਿਚਾਰਧਾਰਾ ਨੂੰ ਜਾਣਨ ਦੇ ਨਾਲ ਕਾਫੀ ਕਾਵਿ-ਰੂਪ ਦੇ ਕਲਾਤਮਕ ਪੱਖਾਂ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । ਕਾਵਿ-ਰੂਪ ਕਾਫੀਆਂ ਰਾਹੀਂ ਉਸ ਸਮੇਂ ਦੇ ਸਮਾਜ ਦੀਆਂ ਸਮਾਜਿਕ ਦੀਆਂ ਸਮਾਜਿਕ, ਸਾਹਿਤਕ, ਰਾਜਨੀਤਿਕ, ਸਭਿਆਚਾਰਾਕ ਅਤੇ ਲੋਕਧਾਰਾਈ ਪ੍ਰਸਥਿਤੀਆਂ ਦਾ ਪਤਾ ਚਲਦਾ ਹੈ । CO4: ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ ਦੀ ਰਚਨਾ 'ਚੰਡੀ ਦੀ ਵਾਰ' ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਕਾਵਿ-ਰੂਪ ਵਾਰ ਦੇ ਸਿਧਾਂਤਾਂ ਪਹਿਲੂਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹੋਏ ਵਾਰ ਦੇ ਗੁਣਾਂ ਅਤੇ ਮਹੱਤਤਾ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । ਸਾਹਿਤ ਦੇ ਇਸ ਕਾਵਿ ਰੂਪ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀਆਂ ਜਬਰ-ਜੁਲਮ ਅਤੇ ਅਨਿਆਂ ਦੇ ਵਿਰੁੱਧ ਡਟੇ ਰਹਿਣ ਦੀ ਪ੍ਰੇਰਨਾ ਪ੍ਰਾਪਤ ਕਰਦੇ

		ਹਨ । Translated into English CO1: Through the study of medieval Punjabi poetry students are able to understand the principles of mysticism, spiritualism, and Gurmatism along with knowing the medieval period. Students learn about the characteristics, features, and trends of narrative poetry. CO2: Through the study of Sukhmani Sahib, the works of Guru Arjan Dev ji, the students acquire knowledge about the philosophical and spiritual aspects and become possessors of moral qualities. This work inspires the students to do good work for the betterment of the entire humanity. Along with academic studies, students gain knowledge about the real purpose of life. CO3: In the course of Sufi poetry, students learn in detail about the lives of Sufi poets in the medieval period. Sufis gain insight into the causes of the emergence, growth, and decline of poetry. Sufi poets are capable of understanding the artistic aspects of the poetic form along with knowing the ideology in Bulleh Shah's work (Kafis). The social, literary, political, cultural, and folkloric conditions of the society of that time are revealed through poetic forms. CO4: Through the study of Guru Gobind Singh Ji's work Chandi Di War students are able to understand the qualities and importance of War while getting information about the principles and aspects of poetic form War. Through this poetic form of

		literature, students get inspiration to stand against oppression and injustice.
2376	g/go nZmtK opt 1L gzikph Bktb dk nfXn?B	CO1: 'nZX ukBDh oks' Bktb gzikph fe;kBh ihtB nzdo bVkJh^MrfVnK pko/ ikDekoh fdzdk j? ns/ ftfdnkoEhnK B{z bVkJh^MrfVnK s'A d{o ofjD dh gq/oBk fwbdh j?. CO2: oks d/ okjh Bktb gzikph fe;kBh ihtB dh nkofEe wzdjkbh pko/ ikDekoh fdzdk j? ns/ ftfdnkoEhnK B{z ;/X fwbdh j? fe i/eo y/shpkVh okjh rIkok BjhA j[zdk j? sK fJ; ftZu'A fBebe/ e'Jh j'o ezw ngDkn b?Dk ukjhdk j?. CO3: e"ot ;Gk Bktb ;zgsh ekoB gfotkoe eb/P dh rZb dZ;dk j? ns/ ftfdnkoEhnK B{z ;/X fwbdh j? fe gfotkoe MrV/ fJB;kB bJh pj[s ysoBke f;ZX j[zd/ jB. Translated into English CO1: The novel Ladh Channi Raat' gives information about the conflicts in Punjabi peasant life and inspires the students to stay away from the conflicts. CO2: The novel through the night gives information about the economic decline of Punjabi peasant life and the students get guidance that if agriculture does not earn a living then they should take up some other work out of it. CO3:The novel Kaurava Sabha tells the story of family conflict due to wealth and the students get guidance that family conflicts prove to be very dangerous for a person.
2377	**Paper VIII (Opt.II) pMjwbI khwxI dw AiDAYn**	CO1: sMqoK isMG DIr dy khwxI sMgRih myrIAw SRySt khwxIAW rwhIN ividAwrQI inmn vrg dIAW sm`isAwvW qoN jwxMU huMdy hn[  CO2: pRym pRkwS dy khwxI sMgRih 'mukqI' rwhIN ividAwrQI ienswn dIAW mno ivigAwnk sm`isAwvW qoN jwxMU huMdy hn[

		CO3: jrnYl isMG dy khwxI sMgRih ‘twvrz’ rwhIN ividAwrQI pRvwsI jIvn dI bhu-p`KI pwswrW bwry jwxMU huMdy hn[Translated into English CO1: From Santokh Singh Dhir's Story Collection My Best Stories Students learn about the problems of the lower classes. CO2: Through Prem Prakash's story collection 'Mukti', students get to know the psychological problems of human beings. CO3: Through Jarnail Singh's story collection 'Towers', students get to know about the multifaceted aspects of migrant life.
SEMESTER-III		
2380	g/go B"tk L GkPk nfXn?B ns/ gzikph GkPk	CO1: ftfdnkoEh GkPk d/ f;XKse gfjb{nK pko/ ikDekoh jk;b eo b?Adk j?. CO2: ftfdnkoEhnK B{z gzikph GkPk, fJ; dhnK X[BhnK, ftnesh dh GkPkJh ;woZEk nkfd dk pj[^gZyh frnkB j' iKdk j?. CO3: GkPk ftfrnkB eh j?, GkPk dk ftek; s/ fJ; ftZu spdhbhnK fet/A j[zdhnK jB, fJ; pko/ ikDekoh ftfdnkoEhnK B{z fwbdh j?. Translation in English CO1: The student acquires knowledge about the theoretical aspects of the language. CO2: Students get multifaceted knowledge of Punjabi language, its sounds and linguistic ability of a person etc. CO3: Students get information about what is linguistics is, the development of language and how does the changes take place in it.
2381	pypr – dsvW	CO1: ਸੱਭਿਆਚਾਰ ਅਤੇ ਲੋਕਧਾਰਾ ਅਤੇ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ

	s`iBAwcwr, lokDwrw qy pMjwbI s`iBAwcwr	ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਰੋਜਾਨਾ ਜੀਵਨ ਦੇ ਸੰਧਰਭ ਅਤੇ ਸੱਭਿਆਚਾਰ, ਰੀਤੀ ਰਿਵਾਜ਼ ਨੂੰ ਸਮਝਣ ਦੇ ਯੋਗ ਬਣਾਉਦੇ ਹਨ। CO2: ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸੱਭਿਆਚਾਰ ਦੀ ਪ੍ਰਕਿਰਤੀ ਤੇ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਅਤੇ ਸੱਭਿਆਚਾਰਕ ਪਰਿਵਰਤਨ ਬਾਰੇ ਗਿਆਨ ਹਾਸਿਲ ਕਰਦੇ ਹਨ। CO3: ਲੋਕਧਾਰਾ ਦੀ ਪ੍ਰਕਿਰਤੀ ਤੇ ਵਿਸ਼ੇਸ਼ਤਾਵਾ ਲੋਕ-ਮਨ, ਲੋਕ ਰੂੜੀਆਂ ਬਾਰੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜਾਣਕਾਰੀ ਦਿੰਦੇ ਹੋਏ ਖੁੱਲੀ ਗੱਲਬਾਤ ਕਰਕੇ ਪ੍ਰੈਕਟੀਕਲੀ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ। CO4: ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਪੁਰਾਤਨ ਤੇ ਆਧੁਨਿਕ ਬਾਰੇ ਤੁਲਨਾਤਮਕ ਜਾਣਕਾਰੀ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਦਿੰਦੇ ਹੋਏ ਵਿਸ਼ਵੀਕਰਨ ਦਾ ਵਰਤਾਰਾ, ਬਦਲਾਅ ਤੇ ਕਵੀਆਂ ਵੰਗਾਰ ਜੋ ਸੱਭਿਆਚਾਰ ਵਿੱਚ ਆ ਰਹੀਆਂ ਹਨ ਨੂੰ ਸਮਝਣ ਦਾ ਮੌਕਾ ਮਿਲਦਾ ਹੈ। CO5: ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦੀ ਬਣਤਰ, ਰਿਸ਼ਤੇ ਨਾਤੇ ਪ੍ਰੰਪਰਿਕ ਪਿੰਡ ਅਤੇ ਇਨਾਂ ਦੀਆਂ ਪ੍ਰਮੁੱਖ ਸੰਸਥਾਵਾਂ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਦਿਆ, ਬਜੁਰਗਾਂ ਤੋਂ ਅਨੇਕਾ ਪ੍ਰਕਾਰ ਦੀ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ। CO6: ਪੰਜਾਬ ਦੀਆਂ ਰੀਤਾ, ਮੇਲੇ ਤਿਉਹਾਰ ਲੋਕ ਨਾਚ ਤੇ ਲੋਕ ਨਾਟ ਬਾਰੇ ਖੁੱਲ੍ਹੀ ਗੱਲਬਾਤ ਰਾਹੀ ਜਾਣਕਾਰੀ ਦਿੰਦੇ ਹੋਏ ਮੇਲੇ ਤੇ ਤਿਉਹਾਰ ਦਿਖਾਉਂਦੇ ਹੋਏ, ਲੋਕ ਮਨ ਪ੍ਰਚਾਵੇ ਦੀ ਵਿਧੀ ਬਾਰੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਂਝ ਪੁਆਈ ਤੇ ਨਵੀਆਂ ਚੀਜਾ ਸਿੱਖਣ ਦੀ ਲਾਲਸਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ। CO7: ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਦੀਆਂ ਵਿਧਾਵਾ ਦੀ ਵਰਗਵੰਡ ਜਿਵੇ ਲੋਕ ਵਿਸ਼ਵਾਸ਼ ਸਿਆਣਪਾ, ਪੰਜਾਬੀ ਰੀਤਾ ਤੇ ਰਸਮ (ਜਨਮ-ਵਿਆਹ ਤੇ ਮੌਤ) ਬਾਰੇ ਵਿਦਿਆਰਥੀਆਂ ਨਾਲ ਸਾਂਝ ਪਉਣੀ ਤੇ ਉਨਾਂ ਦੇ ਸਮਾਜਿਕ ਜੀਵਨ ਦੇ ਸੰਦਰਭ ਵਿੱਚ ਰੱਖਦੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ CO8: ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਆਧੁਨਿਕ ਤੇ ਪੁਰਾਤਨ ਪਿੰਡਾਂ ਦੇ ਮਨ ਪ੍ਰਚਾਵੇ ਦੇ ਫਰਕ, ਰੋਟੀ ਬੇਟੀ ਦੀ ਸਾਂਝ ਤੇ ਰਿਸਤੇ ਨਾਤਿਆਂ ਦੀ ਮਹੱਤਤਾ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਬਣਾਉਦਾ ਹੈ। Translation in English CO1: The study of culture, folklore and Punjabi culture enables students to understand the context of daily life, the culture, customs and traditions. CO2: Students gain knowledge about the nature and characteristics of culture and cultural change. CO3: By giving information to the students about the nature of folklore and characteristic folk-mind, folk customs, practical information is obtained through open conversation.

		CO4: While providing comparative information about ancient and modern Punjabi culture, it gives the students an opportunity to understand the phenomenon of globalization, and the changes and the downfall which are taking place in the culture. CO5: It provides information about the structure of Punjabi culture, the traditional villages, relationships and other major institutions. The elder and older persons are the source of great knowledge. CO6: The customs, fairs, festivals and folk dances of Punjab encourage students to know about the methods and ways by which people used to entertain themselves and generate interest to learn new things about it. CO7: The genres of Punjabi folklore like folk beliefs, customs and rituals related to birth, marriage and death provide students the information about their social life. CO8: The study of Punjabi culture enables the students to comprehend the forms of entertainment of modern and ancient villages, the importance of bread-butter relationship and human relationships.
2382	**prcw igAwrvW-AwDuink pMjwbI kivqw-1**	CO1: AwDuink pMjwbI kivqw dw AiDAYn ividAwrQIAW leI bhuq hI zrUrI hY[ies kivqw dy AiDAYn rwhIN hI smwj iv`c c`l rhIAW pRivrqIAW dw AiDAYn huMdw hY[smwj dI smJ ividAwrQIAW nMU AwDuink pMjwbI kivqw dw AiDAYn krky hI AwauNdI hY[CO2: pRo. pUrn isMG dI pusqk'KulHy mYdwn" dy AiDAYn rwhIN ividAwrQIAW nMU ij`Qy Ku`lI kivqw bwry jwxkwrI imldI hY auQy SYlI dI qwkq dw vI igAwn huMdw hY[SYlI rwhIN AwpxI BwSw nMu ikvyN pRBwvSwlI bxwauxw hY, iesdw igAwn vI huMdw hY[

	Modern Punjabi Poetry-1	CO3: pRo. mohn isMG dI pusqk 'myrI cOxvI kivqw' dy AiDAYn rwhIN ividAwrQIAW nMu ivSy Aqy klwqmkqw dw BrpUr igAwn pRwpq huMdw hY[pRo. mohn isMG dI pRgqvIvwdI pRivrqI rwhIN mwrksvwd dw igAwn ividAwrQIAW dIAw swihqk rucIAW nMu pRcMf krdw hY[CO4: bwvw blvMq dI puqsk ' sugMD smIr' aunHW swry q`qW nwl BrpUr hY ijhVy iksy kivqw dI audwqqw leI zrurI hn[ies kivqw dy AiDAYn rwhIN ividAwrQIAw nMu sMswr-Amn, AMqr-rwStrI cyqnw, AwSwvwd Aqy hor pRgqISIl iviSAW bwry igAwn hwsl huMdw hY[Translated into English CO1: Study of modern Punjabi poetry is very important for students. It is only through the study of this poem that the trends going on in the society are studied. Students can understand the society only by studying modern Punjabi poetry. CO2: Prof. Through the study of Puran Singh's book 'Khulhe Maidan', the students get information about open poetry and also know the power of the style. There is also the knowledge of how to make your language effective through style. CO3: Prof. Through the study of Mohan Singh's book 'Meri Chaunvi Kavita', students get rich knowledge of the subject and artistry. Prof. The knowledge of Marxism through the progressive tendency of Mohan Singh enhances the literary interests of the students. CO4: Bawa Balwant's book 'Sugandh Sameer' is full of all the elements that are necessary for the sublime of a poem. Through the study of this poem, students gain knowledge about world peace,

		international consciousness, optimism, and, other progressive topics.
2384	Paper 12 Opt 1 ਪੰਜਾਬੀ ਨਾਟਕ ਅਤੇ ਰੰਗਮੰਚ ਦਾ ਅਧਿਐਨ-1	CO1: ਵਿਦਿਆਰਥੀ ਸਾਹਿਤਕ ਵਿਧਾ ਨਾਟਕ ਅਤੇ ਰੰਗਮੰਚ ਦੇ ਸਿਧਾਂਤਕ ਪਹਿਲੂਆਂ ਨੂੰ ਜਾਣਨ ਦੇ ਨਾਲ-ਨਾਲ ਨਾਟਕ ਦੀ ਉਤਪਤੀ/ਨਿਕਾਸ, ਵਿਕਾਸ ਅਤੇ ਵੱਖ-ਵੱਖ ਪ੍ਰਵਿਰਤੀਆਂ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । CO2: ਪੰਜਾਬੀ ਨਾਟਕਕਾਰਾਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਦੁਆਰਾ ਸਮਾਜ ਦੀਆਂ ਸਮਾਜਿਕ, ਸਭਿਆਚਾਰਕ, ਰਾਜਨੀਤਿਕ ਅਤੇ ਆਰਥਿਕ ਪ੍ਰਸਥਿਤੀਆਂ ਨੂੰ ਸਮਝ ਕੇ ਲੋੜ ਪੈਣ 'ਤੇ ਇਨ੍ਹਾਂ ਵਿਚ ਬਦਲਾਵ ਲਿਆਉਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ। CO3: ਵਿਦਿਆਰਥੀ ਨਾਟਕ ਅਤੇ ਰੰਗਮੰਚ ਦੇ ਆਪਸੀ ਸੰਬੰਧਾਂ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । CO4: ਨਾਟਕ ਪੜ੍ਹਨ ਉਪਰੰਤ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਆਪਸੀ ਵਾਰਤਾਲਾਪ ਦੀ ਰੁਚੀ ਪੈਦਾ ਹੁੰਦੀ ਹੈ । ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਹੁਨਰ ਦਾ ਸੰਚਾਰ ਹੁੰਦਾ ਹੈ । CO5: ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਸਮੂਹਿਕ ਰੂਪ ਵਿਚ ਕਾਰਜ ਕਰਨ ਦੀ ਭਾਵਨਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ । CO6: ਵਿਦਿਆਰਥੀਆਂ ਨਾਟਕ ਅਤੇ ਇਕਾਂਗੀ ਵਿਚਲੇ ਅੰਤਰ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । CO7: ਨਾਟਕ ਦੇ ਅਧਿਐਨ ਰਾਹੀ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਮੰਚ ਉੱਪਰ ਬੋਲਣ ਅਤੇ ਕੰਮ ਕਰਨ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ । ਇਸ ਨਾਲ ਜਿਥੇ ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਹੁਨਰ ਵਿਚ ਨਿਖਾਰ ਆਉਂਦਾ ਹੈ ਉਥੇ ਰੋਜ਼ਗਾਰ ਦੇ ਮੌਕੇ ਵੀ ਪ੍ਰਾਪਤ ਹੁੰਦੇ ਹਨ । Translated into English CO1: Students will be able to understand the theoretical aspects of literary genre drama and theatre, as well as understand the origin/outgrowth, development, and various trends of drama. CO2: By understanding the social, cultural, political and economic conditions of the society through the works of Punjabi dramatists, they are capable of bringing changes in them if necessary. CO3: Students are able to understand the interrelationship between drama and theatre. CO4: After reading the play, an interest in mutual dialogue arises among the students. Creative skills are imparted to the students

		CO5: Students develop a sense of teamwork. CO6: Students are able to understand the difference between drama and solitude. CO7: Students develop the ability to speak and act on stage through the study of drama. With this, where the skills of the students improve, they also get employment opportunities.
SEMESTER-IV		
2388	g/go 13 L GkPk ftfrnkB, gzikph GkPk ns/ r[ow[Zyh fbZgh	CO1: ftfdnkoEhnK B{z gzikph ftnkeoD dh Gog{o ikDekoh fwbdh j?. CO2: gzikph GkPk d/ iBw s/ ftek; pko/ ftfdnkoEh ikDekoh jk;b eod/ jB. CO3: GkPk d/ fJfsjk; Aqy Gkos ftZu ;w/A^;w/A p'bhnK iKdhnK ojhnK GkPktK pko/ Gog{o ikDekoh ftfdnkoEh B{z fwbdh j?. CO4: ftfdnkoEhnK B{z P[X gzikph fbyD dh ebk ftZu w[jkos jk;b j[zdh j?. CO5: r[ow[Zyh fbgh pko/ ftfdnkoEh ikDekoh jk;b eod/ jB. Translation in English CO1: Students obtain rich knowledge of Punjabi grammar. CO2: Students gain knowledge about the birth and development of Punjabi language. CO3: The students get ample information about the history of the language and the languages spoken in India from time to time. CO4: Students gain mastery in the art of correct writing in Punjabi. CO5: Students learn about Gurmukhi script.
2389	Paper 14 ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਤੇ ਸੱਭਿਆਚਾਰ	CO1: ਲੋਕ ਸਾਹਿਤ ਦੀ ਪ੍ਰਕ੍ਰਿਤੀ-ਸੁਹਾਗ, ਘੋੜੀ, ਸਿੱਠਵੀ, ਹੇਅਰ, ਟੱਪਾ, ਲੰਮੀ ਬੋਲੀ ਬਾਰੇ ਵਿਦਿਆਰਥੀਆਂ ਨਾਲ ਸਾਂਝ ਪਾਉਣੀ। ਕੀਰਨਾ, ਅਖਾਣ, ਮੁਹਾਵਰਾ-ਕਦੇ ਤੇ ਕਿੱਥੇ ਤੇ ਕਿਵੇਂ

		ਵਰਤਿਆ ਜਾਣਾ ਹੈ । ਕੀਰਨੇ ਕਿਵੇ ਤੇ ਕਿਹੜੇ ਇਲਾਕੇ ਵਿੱਚ ਪਾਏ ਜਾਦੇ ਹਨ। ਇਨ੍ਹਾਂ ਬਾਰੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜਾਣਕਾਰੀ ਦੇਣੀ। CO2: ਬੁਝਾਰਤਾਂ, ਸਿੱਖ ਕਥਾਵਾਂ, ਦੰਤ ਕਥਾਵਾਂ, ਲੋਕ-ਕਹਾਣੀ ਪਰੀ ਕਥਾਵਾਂ, ਨੀਤੀ ਕਥਾਵਾਂ ਦੀ ਰੋਜ਼ਾਨਾ ਜਿੰਦਗੀ ਵਿੱਚ ਮਹੱਤਤਾ ਦੱਸਦੇ ਹੋਏ, ਪੁਰਾਤਨ ਸਮੇ ਵਿੱਚ ਇਹ ਕਥਾਵਾਂ ਮਨ ਪ੍ਰਚਾਵੇ ਦਾ ਪ੍ਰਮੁੱਖ ਸਾਧਨ ਸਨ। CO3:ਪੰਜਾਬੀ ਲੋਕ ਕਥਾ ਰੂਪਾਂ ਦੀ ਵਰਗਵੰਡ-ਪੰਜਾਬੀ ਲੋਕ-ਬਿਰਤਾਤ, ਲੋਕ ਰੂੜੀਆਂ ਤੇ ਲੋਕ-ਬਿਰਤਾਤ ਬਾਰੇ ਅਧਿਐਨ ਕਰਦਿਆ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮੱਰਥ ਬਣਨ ਦੀ ਲਗਨ ਪੈਦਾ ਹੁੰਦੀ ਹੈ। CO4: ਪੰਜਾਬੀ ਲੋਕ-ਕਾਵਿ ਵਿਚ ਔਰਤ ਦੀ ਸਥਿਤੀ, ਲੋਕ ਕਾਵਿ ਦੇ ਪ੍ਰਮੁੱਖ ਵਿਸ਼ੇ (ਰੱਬ, ਮੌਤ, ਇਸ਼ਕ, ਪੇਕਾ ਤੇ ਸਹੁਰਾ ਪਰਿਵਾਰ) ਨੂੰ ਮੌਜੂਦਾ ਜਿੰਦਗੀ ਦੇ ਸੰਦਰਭ ਵਿੱਚ ਰੱਖ ਕੇ ਪੇਸ਼ ਕੀਤੀ ਹੈ ਵਿਦਿਆਰਥੀ ਇਨਾਂ, ਵਿਸ਼ਿਆਂ ਨਾਲ ਜੁੜਕੇ ਉਸ ਸਮੇ ਦੇ ਸਮਾਜ ਦੀ ਸਮਾਜਿਕ ਅਤੇ ਸੱਭਿਆਚਾਰਕ ਤਸਵੀਰ ਨੂੰ ਡੂੰਘਾਈ ਵਿੱਚ ਜਾ ਕੇ ਵੇਖਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ। CO5: ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ, ਭਾਸ਼ਾ ਤੇ ਸੱਭਿਆਚਾਰ, ਸੱਭਿਆਚਾਰਕ ਪਰਿਵਰਤਨ ਅਤੇ ਲੋਕ ਸਾਹਿਤ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀ ਨੂੰ ਅਕਾਦਮਿਕ ਪੜ੍ਹਾਈ ਦੇ ਨਾਲ-ਨਾਲ ਜੀਵਨ ਦੇ ਅਸਲੀ ਮਨੋਰਥ ਨੂੰ ਸਮਝਣ ਦੇ ਕਾਬਿਲ ਬਣਾਉਂਦਾ ਹੈ। CO6: ਪੰਜਾਬੀ ਲੋਕ ਕਾਵਿ ਵਿਚ ਔਰਤ ਦੀ ਸਥਿਤੀ ਪੁਰਾਤਨ ਤੇ ਆਧੁਨਿਕ ਸਧੰਰਭ ਵਿੱਚ ਸਮਝਣ ਦਾ ਮੌਕਾ ਮਿਲਦਾ ਹੈ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਸੱਭਿਆਚਾਰ ਪ੍ਰਤੀ ਜਾਗਰੂਕਤਾ ਤੇ ਸਮਾਜਿਕ ਸੁਧਾਰਾਂ ਨੂੰ ਪ੍ਰੈਕਟੀਕਲੀ ਸਾਹਮਣੇ ਲਿਆਉਣ ਦੀ ਉਤਸੁਕਤਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ। CO7: ਅਖਾਣ ਤੇ ਮੁਹਾਵਰੇ ਵਿੱਚ ਫਰਕ , ਕੀਰਨੇ ਤੇ ਲੋਕ ਗੀਤਾਂ ਦੀ ਲੈਅ ਦੀ ਸਾਂਝ, ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਸੱਭਿਆਚਾਰ ਪ੍ਰਤੀ ਡੂੰਘਾਈ ਨਾਲ ਅਧਿਐਨ ਕਰਨ ਦੀ ਲਗਨ ਪੈਦਾ ਕਰਦਾ ਹੈ। CO8:ਮਨੁੱਖ ਰਿਸ਼ਤਿਆਂ ਅੰਦਰ ਜਨਮ ਲੈਂਦਾ ਹੈ ਤੇ ਇਨ੍ਹਾਂ ਰਿਸ਼ਤਿਆਂ ਨੂੰ ਨਿਭਾਉਂਦਿਆਂ ਇਸ ਸੰਸਾਰ ਤੋਂ ਅਲਵਿਦਾ ਲੈ ਲੈਂਦਾ ਹੈ। ਰਿਸ਼ਤਿਆਂ ਅੰਦਰ ਪਿਆਰ ਤੇ ਮੋਹ ਬਰਕਰਾਰ ਰੱਖਣ ਲਈ ਸਹਿਣਸੀਲਤਾ ਦੀ ਲੋੜ ਪ੍ਰਤੀ ਜਾਗਰੂਕਤਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ। CO9: ਭਾਸ਼ਾ ਤੇ ਸੱਭਿਆਚਾਰ, ਸੱਭਿਆਚਾਰਕ ਪਰਿਵਰਤਨ ਅਤੇ ਲੋਕ ਸਹਿਤ ਦਾ ਅਧਿਐਨ ਕਰਨ ਨਾਲ ਵਿਦਿਆਰਥੀ ਜ਼ਿੰਦਗੀ ਜਿਉਣ ਤੇ ਨਿਭਾਉਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ।

		Translation in English CO1: The students come to know about the nature of folk literature through the following genres: Suhag, Ghodi, Sitthavi, Hair, Tappa, Lambi boli. CO2: When, where and how to use Kirna, Akhan, Muhavara (Idioms)? How and in which region the custom of Kirna is in vogue? The students are informed about them. CO3: While explaining the importance of Riddles, Sikh stories, mythology, folktales, fairy tales, and innovative tales in daily life, students are informed that these stories were the main means of entertainment in ancient times. CO4: The study of Punjabi folklore forms- traditions, rituals, customs and folktales enable the students to develop understanding of the Punjabi culture. CO5: The position of women in Punjabi folk poetry and the major themes of folk poetry (God, death, love, parentage and in-law family) have been presented in the context of current life so that students become able to look deeper into the cultural and social picture of that time. CO6: The study of Punjabi folklore, language and culture, cultural change and folk literature enables the student to understand the true purpose of life along with academic studies. CO7: Punjabi folk poetry provides an opportunity to analyze the position of women in ancient and modern contexts. It creates the awareness for culture and infuses curiosity among students to bring practicable social reforms. CO8: The difference between Akhan and Muhabara (idiom) and the similarity of the rhythm of kirane and folk songs instill in the student a desire to study the culture in depth. CO9: Man takes birth in relationships and leaves this

		world fulfilling these relationships. This creates an awareness of the need for tolerance to maintain love and affection in relationships. CO10: The study of language and culture, cultural change and folk-literature prepares students to live life and perform duties.
2391	**pypr pMdrvW-AwDuink pMjwbI kivqw-II** Modern Punjabi Poetry-II	CO1: fw. jgqwr dI pusqk 'pRvys duAwr' dw AiDAYn krdy hoey ividAwrQIAW nMU kivqw rcn dIAw jugqW dw igAwn huMdw hY[CO2: pws dI pusqk 'swfy simAW iv`c' dw AiDAYn krdy hoey ividAwrQIAW nMU jIvn AnuBv pRwpq huMdw hY Aqy smyN smyN c`lIAW kRWqIkwrI lihrW dw igAwn pRwpq hUMdw hY[CO3: surjIq pwqr dI pusqk 'hnyry iv`c sulgdI vrxmwlw' iv`c mnu`KI hoNd dI pCwx dy msly nMU pRmu`Kqw nwl pRgtwieAw igAw hY[ividAwrQIAW nMu ies pusqk dy AiDAYn rwhIN smwj iv`c AwpxI pCwx bxwaux leI SMGrSSIl hox dI pRyrnw imldI hY[Translated into English CO1: Dr. While studying Jaguar's book 'Praves Dwar', students get to know the tricks of poetry composition. CO2: By studying the Chhau-02 passbook 'Sade Samyaan Mein', the students get life experience and gain knowledge about the revolutionary movements that took place from time to time. CO3: In Surjit Patar's book 'Henere Mein Sulgadi Vranmala', the issue of the identity of human existence is prominently expressed. Through the study of this book, the students are inspired to be brave to make their identity in society.
2392	Paper 16 Opt. 1 ਪੰਜਾਬੀ ਨਾਟਕ ਅਤੇ ਰੰਗਮੰਚ ਦਾ	CO1: ਵਿਦਿਆਰਥੀ ਸਾਹਿਤਕ ਵਿਧਾ ਨਾਟਕ ਅਤੇ ਰੰਗਮੰਚ ਦੇ ਸਿਧਾਂਤਕ ਪਹਿਲੂਆਂ ਨੂੰ ਜਾਣਨ ਦੇ ਨਾਲ-ਨਾਲ ਨਾਟਕ ਦੀ ਉਤਪਤੀ/ਨਿਕਾਸ, ਵਿਕਾਸ

	ਅਧਿਐਨ	ਅਤੇ ਵੱਖ-ਵੱਖ ਪ੍ਰਵਿਰਤੀਆਂ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । CO2: ਪੰਜਾਬੀ ਨਾਟਕਕਾਰਾਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਦੁਆਰਾ ਸਮਾਜ ਦੀਆਂ ਸਮਾਜਿਕ, ਸਭਿਆਚਾਰਕ, ਰਾਜਨੀਤਿਕ ਅਤੇ ਆਰਥਿਕ ਪ੍ਰਸਥਿਤੀਆਂ ਨੂੰ ਸਮਝ ਕੇ ਲੋੜ ਪੈਣ 'ਤੇ ਇਨ੍ਹਾਂ ਵਿਚ ਬਦਲਾਵ ਲਿਆਉਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ। CO3: ਵਿਦਿਆਰਥੀ ਨਾਟਕ ਅਤੇ ਰੰਗਮੰਚ ਦੇ ਆਪਸੀ ਸੰਬੰਧਾਂ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । CO4: ਨਾਟਕ ਪੜ੍ਹਨ ਉਪਰੰਤ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਆਪਸੀ ਵਾਰਤਾਲਾਪ ਦੀ ਰੁਚੀ ਪੈਦਾ ਹੁੰਦੀ ਹੈ । ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਹੁਨਰ ਦਾ ਸੰਚਾਰ ਹੁੰਦਾ ਹੈ । CO5: ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਸਮੂਹਿਕ ਰੂਪ ਵਿਚ ਕਾਰਜ ਕਰਨ ਦੀ ਭਾਵਨਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ । CO6: ਵਿਦਿਆਰਥੀਆਂ ਨਾਟਕ ਅਤੇ ਇਕਾਂਗੀ ਵਿਚਲੇ ਅੰਤਰ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ । CO7: ਨਾਟਕ ਦੇ ਅਧਿਐਨ ਰਾਹੀ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਮੰਚ ਉੱਪਰ ਬੋਲਣ ਅਤੇ ਕੰਮ ਕਰਨ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ । ਇਸ ਨਾਲ ਜਿਥੇ ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਹੁਨਰ ਵਿਚ ਨਿਖਾਰ ਆਉਂਦਾ ਹੈ ਉਥੇ ਰੋਜ਼ਗਾਰ ਦੇ ਮੌਕੇ ਵੀ ਪ੍ਰਾਪਤ ਹੁੰਦੇ ਹਨ । Translated into English CO1: Students will know the theoretical aspects of literary genre drama and theater as well as the origin/outgrowth, development, and various trends of drama. CO2: By understanding the social, cultural, political and economic conditions of the society through the works of Punjabi dramatists, they are capable of bringing changes in them if necessary. CO3: Students are able to understand the interrelationship between drama and theatre. CO4: After reading the play, an interest in mutual dialogue arises among the students. Creative skills are imparted to the students. CO5: Students develop a sense of teamwork. CO6: Students are able to understand the difference between drama and solitude. CO7: Students develop the ability to speak and act on

		stage through the study of drama. With this, where the skills of the students improve, they also get employment opportunities.

M.A. (POLITICAL SCIENCE)

PROGRAM OUTCOMES (POs)	This programme enhances the knowledge and creates the research the aptitude about political phenomena of local to global context. After the program, the students will be able to: PO1: develop subject capabilities by trying to infuse and build social awareness of social responsibilities, understanding of contemporary issues, democratic values, inclusive, tolerance, and secularism, awareness of individual rights, duties and constitutional provisions and understanding of Indian foreign policies and international issues and relations PO2: apply disciplinary or interdisciplinary learning across multiple contexts, integrating knowledge and practices. Effectively apply comparative, critical and analytical skills in reading and writing to address significant issues of the political world. PO3: develop an exciting and supportive learning environment that is conducive to high quality research and related learning activities including debates, seminars and lectures. PO4: develop a set of core skills in students to work with efficiency in the areas of teacher education, technology of teaching, educational administration and supervision. PO5: increase awareness of career options available in the public and private sectors with postgraduate degree in political science. Also to make aware about its value as entry in politics, administrative

	services, teaching positions, legal education and various other fields. PO6: demonstrate the quality to lead a team, country and format or an informal organization. The capacity to perform duties, effective planning and management, ability to interact effectively with people and also identifying and setting achievable goals, developing necessary strategies and outlining the tasks and schedules on how to achieve the set goals. PO7: understand the complex and diverse social Realities, and go for advanced education, academic research, inclusive education, social and gender justice. PO8: perform the professional roles in state and society, such as political leader, educationalist and political analysts, Social Worker, Public Relations Assistant and Campaign Staffer and so on.

PROGRAM SPECIFIC OUTCOMES (PSOs)	After the program, the students can: PSO1: have a firm foundation in the history of ideas as well as the more significant epistemological challenges in the social sciences through this program. PSO2: engage themselves with the undercurrents of political practice and developmental process. PSO3: critically reflect on the contemporary developments. Courses on comparative politics and international relations provide an overview of political developments at the global level. Comparative analysis not only helps in understanding the patterns of institutionalism, democratization and development in various polities but also provide a framework for explaining variations.

	PSO4: pursue specialized courses like human rights, peace and conflict studies and state politics introduces the students to certain new dimensions of politics. By doing these courses, students develop a solid footing over the vast field of knowledge in the discipline that also in a way encourages them to undertake future research in these unconventional areas of political science. PSO5: pursue career options in higher studies in fields related to public policy, international politics and law, gender studies, development studies, Environmental and sustainable development, law and survey research.

SEMESTER-I		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
3164	Western Political thought-1	After the course, the students will be able to: CO1: describe the dominant features of Ancient Western Political Thought: Ancient Greek political thought with focus on Aristotle and Plato; Roman Political Thought: its contributions with special emphasis on the emergence of Roman law. CO2: examine the features of Medieval Political Thought. CO3: evaluate the Renaissance; political thought of Reformation; and Machiavelli. CO4: critically examine Bodin's contributions to the theory of Sovereignty; Hobbes as the founder of the science of materialist politics; Locke as the founder of Liberalism with focus on his views on natural rights, property and consent; and Rousseau's views on Freedom and Democracy; Bentham's

		Utilitarianism; and John Stuart Mill's views on liberty and representative government. CO5: take an insight into the following: Hegel's views on Civil Society and State; Utopian and Scientific socialism: basic characteristics. CO6: examine the varieties of non-Marxist socialism:, Syndicalism, Guild Socialism, German Revisionism
3165	Key Concepts in Political Analysis	After doing this course, the student will be able to: CO1: discern the conceptual debates which underlie political phenomena. CO2: explain the key concepts needed to understand the political phenomenon. CO3: develop an understanding of the basic concepts in political theory and engage in critical analysis of the subject. CO4: develop an understanding of the basic concepts in political theory and engage in critical analysis of the subject. CO5: describe what is power and how does it operate in society and politics. CO6: dwell upon contemporary theories and views of scholars creating a deeper understanding and gain knowledge. CO7: explain different approaches to politics and build their own understanding of politics.
3166	Indian Politics: Institutions at Work	After the course, the students can: CO1: describe about the Constitution of India, important debates and the way the institutions have worked over the last more than six and half decades. CO2: describe the working of Indian political system and evaluate the basic strengths and weaknesses of the Indian political system through the application of

		political concepts and idea CO3: explain about the political philosophy, institutions, and processes in India with respect to various levels of government. CO4: explain about the working of Political parties and the way party politics in India has taken shape under diverse social settings. CO5: explain about constitutional Development in India. Institutions of governance in India. Learn about leadership and decision-making process in India. Aware about working of Administration in India. CO6: critically evaluate the Indian Party system – its development and looking at the ideology of dominant national parties. CO7: evaluate the Electoral Process in India with focus on the Election Commission: Composition, Functions and Role.
3167	International Relations: An Historical Overview	After the course, the students can: CO1: explain about scope and subject matter of International Relations as an autonomous academic discipline. CO2: describe the role of Diplomacy, Propaganda and Military capabilities in the making of foreign policy. CO3: explain certain basic concepts like Globalization in contemporary world order. CO4: describe the Cold War phases and understanding the post Cold War era. CO5: discuss the developments in European Ethno-nationalism since 1990's. Tracing the growth of European Union CO6: describe about emerging Issues in a Changing World like Ethnicity, environment, sustainable development, gender & peace.

SEMESTER-II		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
3170	Western Political Thought (ii)	After the course, the students can: CO1: explain about the diverse intellectual political traditions in the west. CO2: describe the conceptual debate of fundamental political ideas in the west. CO3: critically analyze the political philosophy of western political thinkers. CO4: explain the development of Post Marxist ideology. CO5: discuss the central themes, concepts and ideas on the development of the contemporary tradition of western political thought. CO6: analyze the ideology in terms of empirical realism and apply these ideologies to the assessment of some current economic debate
3171	Comparative Politics-I: Understanding Advanced Industrial Societies	After completing the course students will be able to: CO1: develop a detailed understanding of theory and methods of comparative politics. CO2: explain the different models of political system and the way political dynamics have changed and shaped societies from time to time. CO3: explain the basic concepts and approaches of Comparative Politics. CO4: critically evaluate the problems and relevance of Comparative Politics. CO5: analyze contemporary issues and challenges before the state and Constitutionalism from the comparative Perspective.
3172	Indian Politics: Political Processes	After the completion of the course, the students can: CO1: develop a comprehensive understanding of political

		institutions and their functions in India. CO2: gain insights into the interconnections between social and economic relations and the political process in India. CO3: explain the challenges arising due to caste, class, gender and religious diversities and also analyze the changing nature of the Indian state in the light of these diversities. CO4: comprehend Indian politics beyond structural and constitutional perspectives. CO5: grasp Indian Politics in its entirety. The course will consolidate the knowledge base of the students about the dynamism of Indian Politics. CO6: explain the dialectical relationship between the Indian politics and its social universe.
3173	Theories of International Relations	After the course, the students can: CO1: explain the major theories in IR, covering the entire disciplinary spectrum from mainstream approaches such as realism, liberalism and constructivism to critical approaches such as post-colonialism, postmodernism and feminism. Whereas the course content remains largely theoretical, both historical and contemporary practices are taken as illustrative examples, particularly illuminating non-Western perspectives. CO2: think creatively and critically in search of 'global' International Relations that is inclusive of non-Western perspectives and traditions CO3: explain the evolving nature of international systems, institution and processes. CO4: undertake academic assignments and research projects related with international issues which are becoming very salient in today's globalized world. CO5: acquire grounding in the academic debates and

		research literature in the field of international relations (IR), and understood how to apply key theories and concepts of IR to global and regional issues. CO6: significant developments in contemporary international relations. CO7: develop practical skills relevant to a career in international affairs, including in academia, research, international organizations, government, media and NGOs.
3174	Approaches to the Study of International	After the course, the students can: CO1: explain about the contemporary international Politics. CO2: acquire grounding in the academic debates and research literature in the field of international relations (IR), and understood how to apply key theories and concepts of IR to global and regional issues. CO3: explain about different approaches which are applied in international relations. CO4: explain about the historical origins, key debates and emerging Trends in the discipline.
SEMESTER-III		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
3176	Indian Political Thought-I	After the course, the students can: CO1: explain the sources of Indian Political Philosophy. CO2: explain the relevant contributions of Indian Political Philosophy to the realm of political thought. CO3: describe the various philosophical underpinning of political ideologies in India. CO4: demonstrate knowledge and understanding of basic concepts of ancient and medieval Indian political thought that are prevalent traditions of thought in

		India and develop a comparative understanding of Indian and western political thought.
3177	Comparative Politics (II): Understanding Developing Societies	After the course, the students can: CO1: get familiar with the debates on key concepts and theoretical perspectives in comparative politics. CO2: use conceptual tools to understand new developments in political experiences across the world in a historical, sociological, political economy, and institutional perspectives. CO3: develop a thorough understanding among students on how to study politics comparatively, that is, understand similarities and differences in political experiences CO4: describe about the function and role of the state.
3188	Comparative Political Systems with Special Reference to USA, UK, China, Japan and Switzerland	After the course, the students can: CO1: critically analyze the features of a liberal democratic and socialist political system with focus on UK, USA and the People's Republic of China. CO2: apply different approaches to explain the functioning of different types of governing regimes. CO3: critically reflect on critical aspects of electoral democracy that includes functioning of parties and the relation between representation and democracy. CO4: conduct an intensive comparative study of the Executive (UK, USA, Japan and Switzerland); Legislature (UK, USA and the PRC); the Judiciary (UK, USA and PRC). CO5: critically look at the rights of the citizens of UK, USA and PRC from a comparative perspective.
3179	International Organization (Option-A)	After the course, the students can: CO1: describe the contemporary relevance of the UN and

		its relationship with other IGOs CO2: contextualize recent international crises and their resolution. CO3: represent the country in diplomatic circles, armed with the proper knowledge of international organizations. CO4: describe the working of international organizations and regional organizations. Aware about the global challenges. CO5: analyze the role of U.N. and regional organizations
3180	Transnational Actors in International Politics (Option-B)	After the course, the students can: CO1: explain about the limitations of state-centric framework and emergence of transnational actors. CO2: explain about the different types of transnational actors in International Politics CO3: critically analyze the Post-War Economy and the International Monetary System CO4: explain about the Cartelization of Natural Resources in the Age of Globalization and Issues and challenges in international environmental politics.
3181	Politics of Development in India(Option-C)	After the course, the students can: CO1: explain about the concepts of Development, meaning and changing conceptions. Economic growth. Human development. Sustainable development. CO2: explain about Development Strategies and State Policies in India. CO3: critically analyze the Socio-Economic Problems and Developmental Issues in India. CO4: explain about Globalization, Changing Policies, Strategies and their implications in India.
3182	Peace and Conflict Resolution (Option-D)	After the course, the students can: CO1: enhance their analytical ability by learning about

		different models employed in conflict resolution. CO2: develop analytical outlook in conflict resolution on equitable, cooperative and non-violent techniques of conflict resolution and transformation. CO3: deliberate on peace movements across the world and especially in war torn regions will help students develop independent perspective on conflict resolution. CO4: describe issues like migration, information flow and normative concepts will augment students, understanding and knowledge. CO5: explain about negotiation and mediation skill for conflict resolution through active listening, different tracks of diplomacy and Gandhian methods. CO6: resolve issues of national security and conflict studies.
3183	Rethinking Geopolitics: Critical Perspectives (Option-E)	After the course, the students can: CO1: rethink and radicalize its components 'geo' and 'politics' so that the self-evident character and nuance of the sign 'geopolitics' can be conceptualized and pluralized. CO2: explain about Twenty-First Century Geopolitics specially USA, Russia, India and Pakistan CO3: enhance their understanding of The Geopolitics of Global Dangers of Terror. CO4: develop critical understanding about Geopolitics, anti-geopolitics, social movements and alternative political geographies
3184	Theories of Development (Option-F)	After the course, the students can: CO1: explain about theories of modernization. Neoliberals and globalization, role of the state, welfare and redistribution.

		CO2: analyse Dependency, Underdevelopment and world system CO3: develop critical understanding about Impact of Postmodernism on Development studies and the Post development rejection of Development. CO4: explain about challenges before development like Aid, Role of Non-government Organizations and International Agencies, Displacement and Poverty etc.
3185	Public International Law-I (Option-G)	After the course, the students can: CO1: explain about international law and its role and significance in international politics and relations. CO2: explain about various disputes in international relations and various settlement means. CO3: describe about General Laws of Warfare in international politics. CO4: explain about different International Transactions Diplomatic Agents and Treaties.
3186	Democracy In India (Option A)	After the course, the students can: CO1: explain about Indian democracy in historical context. CO2: identify the need to accommodate social and cultural diversity in a democracy. They enable to understand how a democracy promotes acceptance of diversity. CO3: appreciate democracy forms for equality and dignity of all citizens. CO4: explain the institutional aspects of democracy and how institutions function within a constitutional framework in India. CO5: delve into how democracy as a model of governance can be complimented by institution building.

3187	Government & Politics of India's Neighbours (Pakistan, Bangladesh, Nepal and Sri Lanka) (Option B)	After the course, the students can: CO1: explain how India's foreign policy evolved toward its neighboring countries. CO2: explain about Internal Conflict in South Asia: Causes and Dynamics. CO3: analyse bilateral relations and multilateral SAARC. CO4: critically analyze India's policy toward its neighbours; and identify the key issues that strain India's bilateral relations with its neighbors.
3188	Women and Politics in India (Option C)	After the course, the students can: CO1: apply knowledge as emerging global citizens by considering options for contributing to positive change. CO2: analyze the complex and gendered social, economic, and political aspects of globalization that disproportionately disadvantage and impact women in various locations around the world. CO3: recognize key women's human rights defenders who have made an important contribution to furthering the rights of women and girls. CO4: analyze key issues affecting women through a transnational feminist perspective, including immigration, education, maternal health, globalization, economics, and gender-based violence.
3189	Rights: Ideas and Movements (Option D)	After the course, the students can: CO1: explain about the rights which generally they should act as a vigilant citizen of the country. CO2: take an analytic and critical stance and deal with questions of how rights affect social and political processes CO3: identify issues and problems relating to the

		realization of human rights. CO4: develops investigative and analytical skills. CO5: develop expertise in the field of human rights CO6: identify, contextualize and use information about the human rights situation in a given country.
3190	Nationalism : Theory and Context (Option E)	After the course, the students can: CO1: explain about the basic conceptual tools for approaching the study of nationalism. CO2: draw on theoretical understandings of nationalism to understand complex, substantive case material. CO3: develop an in-depth knowledge of a major topic within the field of nationalism studies. CO4: develop their independent research skills, in particular surveying literatures and developing thematically organised bibliographies around chosen topics. CO5: explain the role of different cultural and political organizations and ideologies which contributed to the freedom movement of India significantly.
3191	New Political Geography in Comparative Perspective (Option F)	After the course, the students can: CO1: examine the geopolitical economy of so-called 'resource wars', that is armed conflicts revolving to a significant degree over the pursuit or possession of critical materials.
3192	Policies and Politics of Development in India (Option G)	After the course, the students can: CO1: explain about the development strategies and their impact on industrial and agricultural sphere. CO2: explain about development policies and planning in India since independence.
3193	Public Administration (Option H)	After the course, the students can: CO1: explain the concepts and theories on motivation, leadership and conflict management in the organization.

		CO2: explain the journey of discourse in public administration in the sense that how the old public administration view was contested by the idea of new public administration and subsequently the discourse moved beyond that and started talking about New Public Management and New Public Service. CO3: make a difference between the public administration and private administration. CO4: explain about the traditional and emerging theories and principles of public administration. This would also acquaint them with changing management practices in the light of expanding public works and the need for greater collaboration with non-state agencies. CO5: describe the pre-requisites for effective and just administration at various levels. CO6: explain about evolution and development of Indian Administration. CO7: analyze the working of Indian Administration.
SEMESTER-IV		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
3196	Indian Political Thought-II	After the course, the students can: CO1: demonstrate and familiarize with main ideas of the key Indian Political Thinkers. Analyze and compare the ideas and theories of Modern India Political Thinkers. CO2: answer why Gandhi favored Swadeshi and why he became the critique of modern Industrial Civilization. CO3: explain Vivekanand's criticism of the West and taking pride in the Indian religion on the one hand

		and critiquing Christianity and Islam on the issue of religious conversion. CO4: explain about the critical issues of Indian Political thought and debate them for knowing Indian tradition for building of Modern India and better future. It will help students to understand the Indian society and polity in better way.
3197	Foreign Policy of India	After the course, the students can: CO1: explain about the India's world view, geopolitical vision, and key principles and New Frontiers of Indian Foreign Policy and Diplomacy. CO2: analyse about geostrategic and economic, foreign policy and diplomacy which helps students understanding contemporary issues and problems in relations with other countries. CO3: describe the international events and foreign policy issues and developments in Indian Foreign Policy approaches. CO4: do research and join in many think tanks and research organizations. CO5: engage in the debates on Indian foreign policy.
3198	Parties and Electoral Politics in India (Option A)	After the course, the students can: CO1: explain the origin and ideologies of main national parties of India especially the BJP, The CPM, and the Indian National Congress. CO2: explain how the regional parties emerged and how their emergence challenged the hegemony of the national party like Indian the National Congress. CO3: explain the transformation in the nature of the regional parties in India. CO4: decode the election manifestoes of political parties and explain in what ways they converge and diverge on policy issues and programs.

		CO5: explain the New Social Movements, NGOs and their impact on political parties.
3199	State Politics in India (Option B)	After the course, the students can: CO1: explore the multiple dimensions of state as well as sub-state level politics in India in a comparative perspective. CO2: describe the federal process in India, the issues underlying political dynamics of regions, the changing power relations between centre and states over a period of time and the nature of party system and electoral politics at the state level. CO3: explain about the Dalit and Backward Classes Movements CO4: explain what the key issues are in State politics. CO5: explain Agrarian Politics in the States such as Green Revolution, Farmers' Movements.
3200	Decentralized Governance and Local Level Institutions in India (Option C)	After the course, the students can: CO1: observe the history and legislations of decentralization in India from pre independence to the passage of 73rd and 74th amendment Act. CO2: explain about challenges of Governance at the local level-autonomy, finance, personnel, participation. CO3: explain about Growth, Development and functioning of Panchayati Raj Institution from independence to present. CO4: explain regarding the concept of decentralization and devolution of power in India. CO5: explain about the various constitutional provisions and statutes pertains to decentralized governance in the country.
3201	Political Sociology With Special Reference to India (Option D)	After the course, the students can: CO1: gain insights into the interconnections between

		social and economic relations and the political process in India. CO2: explain about the challenges arising due to caste, class, gender and religious diversities and also analyze the changing nature of the Indian state in the light of these diversities. CO3: explain about the emergence of social movements in response to the development policies adopted by successive governments. CO4: create awareness of the different trajectories of specific social movements in India, their demands and successes. CO5: analyze social problems and understanding social dynamics.
3202	Representing 'India': Geopolitical Imaginations (Option E)	After the course, the students can: CO1: explain about the historical background of Indian politics. CO2: analyze The Indian Diaspora and dilemmas of Migration. CO3: explain about Crisis of Secularism and Changing contours of minority politics in India. CO4: explain about some of the critical issues like Rise of Hindutva and the Search for Alternative Geopolitical Imaginations.
3203	Dalit Movements and Issues In India (Option F)	After the course, the students can: CO1: explain about the politics of the oppressed sections of society as expressed through a search for identity and through movements. CO2: analyze how the Dalit movement is following Ambedkar's idea of "Educate, Unite and Agitate". CO3: explain about development concepts and debates and the perspective of Dalit identity. CO4: explain about Reservation policy and Politics of Inclusion in India in better way.

		CO5: evaluate the programmes and policies designed to rectify the forms of social injustice.
3204	Feminist Political Theory (Option A)	After the course, the students can: CO1: explain how different schools have understood patriarchy and feminist questions differently. CO2: explain the origin, evolution and key issues which are at the core of the feminist movement both in Anglo-American world and India. CO3: explain the Women position in contemporary Society. CO4: explain how the immense contribution that women make to the family are neglected in computation. CO5: analyze the various theories on gender and evaluate how gender identities are constructed.
3205	Major Themes in Recent Political Philosophy (Option B)	After the course, the students can: CO1: explain the development concepts and debates and the perspective of engendering development. CO2: explain the theoretical background of the concept Neoliberalism and Post Marxism.
3206	Readings in the philosophy of resistance and liberation (Option C)	After the course, the students can: CO1: employ philosophical texts to explain why a philosophical problem is significant and to critically evaluate attempts to solve a problem. CO2: reconstruct and critically evaluate philosophical arguments in written form.
3207	Contemporary Debates In The 20th Century Marxism (Option D)	After the course, the students can: CO1: examine the Marxist engagement with critical issues Capitalism, Colonialism, Socialism and Environmental Degradation. CO2: correlate the concept of Feminism and Marxism. CO3: critically evaluate the ideology of Marxism, Marxist thinkers and their major ideals and enables the students to think about its relevance

		and possibilities in the cotemporary world.
3208	Introducing Federalism (Option E)	After the course, the students can: CO1: explain about the federal process in India and the changing power relations between centre and states over a period of time and the nature of party system and electoral politics at the state level. CO2: explain about the sources of these concepts and their historical development. CO3: use these concepts in order to critically research, analyses, and evaluate major issues in federalism. CO4: develop skills for research, argument, and analysis in order to effectively communicate their own perspectives on key concepts and issues in federalism.
3209	Public International law-II (Option F)	After the course, the students can: CO1: explain both the legal and political aspects of international decisions and events. CO2: explain about the system of public international law which regulates relations between actors on the global stage. CO3: examine the operation and application of international law in practical contexts. CO4: develop effective skills, both orally and in writing, in the construction of legal argument and the independent and self-directed analysis on issues of international law.

MASTER OF COMMERCE (M.COM.)

PROGRAM OUTCOMES (POs)	After completion of this Program, the students will be able to: PO1: update themselves with the sound knowledge of Concepts, Structure and nature of Business

	Finance. PO2: utilize various aspects of financial accounting, its principles and the latest application-oriented accounting methods in the real world. PO3: develop the decision-making skill regarding various costing methods and practical applications of management accounting principles. PO4: apply the techniques of managing the business with special focus on marketing, Insurance and banking theory law and practices. PO5: apply knowledge in all the spheres of commerce including entrepreneurial development. PO6: use various application-oriented research techniques and would have knowledge on how to use these techniques in business related problems.

PROGRAM SPECIFIC OUTCOMES (PSOs)	After completing master's in commerce, students are able to: PSO1: develop an ability to apply knowledge acquired in problem solving. PSO2: work in teams with enhanced interpersonal skills and communication. PSO3: work in different domains like Accounting, Taxation, HRM, Banking and Administration. PSO4: start their own business. PSO5: work in MNCs as well as private, and public companies. PSO6: develop team-work, leadership and managerial and administrative skills. PSO7: go further for professional courses like CA/ CS/CMA/CFA.

COURSE OUTCOMES (COs)

SEMESTER-I		
COURSE CODE	COURSE TITLE	COURSE OUTCOME
M.C.101	Managerial Economics	After completing the course, students will be able to: CO1: explain the concept of microeconomic theory and their use in business decision making. CO2: use various concepts to deal with business problems in a global economic environment. CO3: make cost effective suggestions. CO4: Develop a top scale database program that identifies obstacles.
M.C.102	Quantitative Methods for Business	After the end of the course, the students will be able to: CO1: use the econometric technique for estimate relationship between relevant variables and that forecast their values. CO2: get skilled in proper deployment of resources. CO3: choose an optimum strategy. CO4: use various elements of quantities including numbers symbols and mathematical expressions in management. CO5: explain the importance of statistical techniques for managerial decision making. CO6: predict the business and economic situations.
M.C.103	Modern Accounting Theory & Reporting Practices	Students after doing this course, will be able to: CO1: state the meaning, need and benefits of harmonization of Reporting Practices. CO2: explain the requirements of various National and International Accounting Standards. CO3: review the important National and International bodies involved in the process and steps followed in framing an accounting standard. CO4: apply the accounting standards framed with their related requirements.
M.C.104	Organisation Theory	After completing this course, students will be able to:

	and Behaviour	CO1: develop a theoretical understanding of structure and behaviour of organization. CO2: realize the competitiveness of firm. CO3: describe the organization culture, development and stress management. CO4: analyze the different aspects of OB.
MC105	Marketing Management	After the completion of course, students will be able to: CO1: state the importance of marketing management. CO2: describe the components of marketing mix. CO3: state the role and functions of marketing within a range of organizations. CO4: describe key marketing concepts, theories and techniques for analyzing a variety of marketing situations. CO5: state the relevance of marketing concepts and theories in evaluating the impacts of environmental changes on marketing planning, strategies and practices. CO6: identify and demonstrate the dynamic nature of the environment in which marketing decisions are taken.
M.C.106	Management Information System	After the completion of course, students will be able to:- CO1: enhance skills about the technical and strategic issues related to MIS. CO2: describe MIS and its different characteristics. CO3: state and apply Transaction Processing System in an organization. CO4: explain the formal and informal structures of MIS. CO5: describe about development of systems and its Implementation.
M.C.107	A Workshop on IT Applications in Commerce	After the completion of course, students will be able to:- CO1: use IT applications in the organizations. CO2: use spread sheet. CO3: describe about the DBMS and its use in organization.

		CO4: describe about the various business models of IT.
SEMESTER-II		
M.C.201	Business Environment	Students after the end of the course, will be able to: CO1: successfully conduct the business. CO2: formulate action plans. CO3: take the advantage of environmental opportunities. CO4: explain concepts of macroeconomics and the macro environment in which a business organization operates. CO5: analyze and understand the macroeconomic policies of the government implemented from time to time and assess their impact on business.
M.C.202	Research Methodology in Commerce	After the completion of course, students will be able to :- CO1: describe about research methodology. CO2: apply advanced statistical techniques like Discriminate Analysis, Logistic Analysis and Factor Analysis. CO3: handle different types of data. CO4: use suitable statistical techniques in research. CO5: interpret the results obtained. CO6: tabulate the data. CO7: handle qualitative as well as quantitative data. CO8: draw conclusions about the population on the basis of sample.
M.C.203	Financial Management and Policy	After the completion of the course, students will be able to CO1: state the various sources of Finance. CO2: describe the various uses for Finance. CO3: apply the techniques used in Financial management. CO4: explain about the functions of Finance. CO5: identify the different types of Finance. CO6: describe this relationship between finance with other allied disciplines. CO7: state the meaning of Capital budgeting. CO8: describe about capital expenditure.

		CO9: point out the significance of Capital budgeting. CO10: describe the Capital budgeting process. CO11: spell out the factors influencing investment decisions. CO12: describe the kinds of Capital budgeting decisions. CO13: analyze the combined effects of financial and operating leverages.
M.C.204	Production and materials management	After the completion of course, students will be able to: CO1: describe about different ways of purchasing for proper cost management. CO2: enhance the skills of students to negotiate with different suppliers for purchasing. CO3: apply different statistical methods for price determination. CO4: describe about Work Study. CO5: state about facilities location and layout.
M.C.205	Operations Research	After finishing this course, students will be able to: CO1: recall the different concepts of OR. CO2: state the practical applicability of OR techniques in different fields. CO3: solve the problems of OR. CO4: describe the techniques of OR for problem solving.
M.C.206	Business Policy & Strategic Management	After the consummation of this course, the students will get skilled in: CO1: expressing the meaning, need and benefits of Business Policy and Strategic Management CO2: explaining the important concepts and techniques used for the same. CO3: describing in detail, the process involved in Strategic Management. CO4: apply various e-commerce business models in a company.
M.C.207	Summer Training Report and Viva Voce	After completion of the training and preparing the report, the students will be able to: CO1: develop conceptual and applied research skills as

		well as competencies required for effective problem solving and right decision making. CO2: gain opportunity to work in various types of situations. CO3: explore career alternatives for future by assessing their interests and abilities in their field of study. CO4: develop work habits and attitudes necessary for job success. CO5: practice and improve their industry skills while also learning how to work. CO6: articulate and apply principles learned in and outside of the classroom to a specific job.
SEMESTER-III		
MC 301	Business Performance Measurement	At the end of this course, students will be able to: CO1: describe the meaning, need and benefits of measuring the performance of business. CO2: understand the various techniques involved in measuring the same. CO3: explain the new developing concepts in the field. CO4: apply the modern methods of measuring business performance.
MC 302	Tax Planning and Management	After completing this course, students will be able to: CO1: explain the structure of direct and indirect taxes in India. CO2: define tax planning, tax avoidance, and tax evasion. CO3: apply the latest provisions of the Indian tax laws CO4: analyze the judicial pronouncements pertaining to corporate enterprises having implications for various aspects of corporate planning. CO5: explain GST concepts in business world.
MC 303	Integrated Marketing Communication & Brand Equity	After the completion of this course, student will be able to:

		CO1: explain the integrated role of promotion techniques CO2: explain about methods of advertising. CO3: analyze various marketing models such as AIDA, THINK/FEER/DO
MC 304	Marketing Research	After the completion of this course, student will be able to: CO1: describe the concept, tools and techniques of marketing research. CO2: apply research techniques to aid marketing decision making. CO3: recognize the importance of marketing research in a business organization.
MC 305	Human Resource Development	After completion of the course, students will be able to: CO1: apply the principles and techniques as professional in organizations they work for. CO2: explain the concepts, techniques, and practices of human resource development. CO3: explain the basics of Human Resource Development CO4: describe about HRD culture, HRD activities and applications and contemporary HRD trends and practices. CO5: describe HRD process including implementation and Evaluation.
MC 306	Industrial Relations	After the completion of this course, students will be able to: CO1: recall the concept of industrial relation. CO2: sketch the importance of industrial relations for business organizations. CO3: locate how the industrial relations provide dynamics to organizations.
MC 307	India's Foreign Trade and Investment	After the completion of this course, student will be able to: CO1: explain the structure and policy framework of India foreign trade and investment.

		CO2: conduct in depth analysis of the concepts of export promotion measure and facilities.
MC 308	Management of International Business Operations	After the completion of this course, student will be able to: CO1: explain the management complexities, issues and approaches to international management. CO2: deal with organizational and control aspects of international operations. CO3: conduct in depth analysis of international marketing management and international human resource management.
MC 309	Strategic Cost Management	After studying this course, students will be able to: CO1: recall the relationship of strategy with Cost Management. CO2: express the aspects of Cost Management from strategic perspective. CO3: analyze Cost Management tools CO4: describe the strategic performance measurement and perspectives of BSC.
MC 310	International Accounting	After the completion of this course, student will be able to: CO1: develop conceptual knowledge and understanding of international accounting issues CO2: become capable of tackling issues in prevailing regulatory environments CO3: appraise concepts such as: Transfer pricing, Foreign currency translations, Strategic planning
MC 311	Industrial Economics	After the completion of this course, student will be able to: CO1: describe the economic concepts as applied to industrial behavior. CO2: analyze and take decisions in respect of a firm and industry operations. CO3: analyze economies of size, economies of non-price decision of firm in detail.

MC 312	Applied Econometrics	After the completion of this course student, will be able to: CO1: define the methodology of econometrics. CO2: become capable of applying econometrics to business problems. CO3: give special emphasis on application aspects with theoretical understanding.
MC 313	Bank Management	After the completion of this course, student will be able to: CO1: analyze banking structure of India in detail. CO2: recognize the concept of E-banking in detail and know how e-banking develops the financial sector. CO3: conduct in depth analysis about NPA and investment management and their recent developments.
MC 314	Insurance Management	After the completion of this course student, will be able to: CO1: explain the concept of insurance, the risk and its Management. CO2: analyse various insurance policies and their structure along with the legal dimensions involved. CO3: recognize the concept of insurance company management.
MC 315	Workshop on Financial Markets and Instruments	At the end of the course, students will be able to: CO1: describe the financial system and its constituents, the principles on which it operates inter-linkages and regulatory concerns. CO2: develop an understanding of the degree of financial exclusion, its causes and difficulties in measurement as well as a critical analysis of different financial inclusion initiatives taken the world over. CO3: analyze different types of depository and non

		depository institutions and their primary roles. CO4: develop better understanding of money and capital markets and their roles, interlink ages and regulatory concerns. CO5: describe about the working of mutual funds, pension funds, insurance companies, hedge funds, venture capital funds and private equity.
SEMESTER-IV		
MC 401	Project Planning and Control	Students will acquire the skill after completing the course: CO1: to create plan and control a new enterprise. CO2: to identify the risk and develop plans to address and mitigate the issues. CO3: to analyze project data to keep cost and schedules on track. CO4: to effectively utilize the resources timely decisions coordination.
MC 402	Knowledge Management	After finishing this course, students will be able to: CO1: state the concepts of knowledge management CO2: explain the knowledge management used in every field CO3: apply the methods of KM according to requirements.. CO4: describe the KMS and expert system
MC 403	Business Ethics and Corporate Governance	After the completion of this course student, will be able to: CO1: apply the knowledge of business ethics and ethical conflict in a business concern. CO2: recall the role of corporate governance and its increasing impact in the management of organizations. CO3: examine various ethical concepts such as: Ethical dilemma, ethical leadership, Whistle blowing.
MC 404	Advertising and Sales	After the completion of this course, student will be able

	Management	to: CO1: become capable of conducting in-depth understanding of the modern concepts and latest techniques of advertising. CO2: analyse the concepts of personal selling and sales force management which constitutes a fast growing area of marketing. CO3: sketch the importance of advertising for a business Organization.
MC 405	Services Marketing	After the completion of this course, student will be able to: CO1: describe about the service product and key elements of service marketing mix. CO2: deal with managing the service delivery process CO3: differentiate the implementation of services Marketing.
MC 406	Consumer Behavior	After the completion of this course, student will be able to: CO1: recognize the importance of knowledge of consumer behavior for developing effective marketing strategy. CO2: conduct in –depth understanding of the consumer and industrial buying process. CO3: understand determinants of consumers as relevant for marketing decision making.
MC 407	Organizational Change and Development	After the completion of this course, student will be able to: CO1: conduct in depth understanding of Behavioral Interventions. CO2: apply Behavioral Interventions for building team, system and process related competencies. CO3: be trained to help business organizations to achieve peak performance and become self-sustaining.
MC 408	Training and Development	After the completion of this course, student will be able to:

		CO1: describe the concepts and principles of training and development of human resource. CO2: recall about the environment of a firm. CO3: provide training to human resource of a business firm.
MC 409	Compensation Management	After the completion of this course, student will be able to: CO1: recognize various issues related to compensation in corporate sector. CO2: impart skills in designing, analyzing, and restructuring, compensation management system and policies and strategies. CO3: identify role of compensation in organization.
MC 410	International Business Environment	After the completion of this course, student will be able to: CO1: identify types and significance of Foreign Investment. CO2: explain the concepts of International Monetary System and Foreign Exchange Marketing. CO3: conduct overall study of International Business environment and factors affecting it.
MC 411	Global Financial Management	After the completion of this course, student will be able to: CO1: describe about foreign currency derivatives, forward, future and option markets. CO2: identify the concepts of forex exposure and risk Management. CO3: recognize how to determine foreign exchange rate.
MC 412	International Marketing Management	After the completion of this course, student will be able to: CO1: conduct in-depth understanding of International Marketing, its dimensions and framework. CO2: analyse environment affecting International Business and recent trends in Indian foreign trade.

		CO3: identify new techniques and developments in International Marketing.
MC 413	Advanced Corporate Accounting	At the end of the course, the students will be able to: CO1: apply the Advanced Accounting in the field of corporate world. CO2: recall the theoretical and practical knowledge regarding the important concepts: Business Acquisitions, Mergers and Reconstruction, Goodwill and Shares Valuations, Consolidation of accounts. CO3: use the various related standards and provisions of accounting. CO4: prepare financial statements according to the Companies Act.
MC 414	Security Analysis and Portfolio Management	After completion of the course, students will be able to: CO1: apply the various techniques of analysis used in investment decisions. CO2: interpret the concepts of portfolio analysis and efficient portfolio management. CO3: demonstrate their knowledge in valuation of equity instrument and valuation of bonds. CO4: measure the performance of portfolio. CO5: take decision of investment in future.
MC 415	Advanced Auditing	After finishing this course, the students will be able to: CO1: describe the meaning and concept of Auditing CO2: recall the rights, duties and liabilities of an Auditor. CO3: use various auditing standards. CO4: identify other thrust areas. CO5: compare between the audits done by different institutions.
MC 416	Macro-Economic Analysis and Policy	After the completion of this course student will be able to: CO1: conduct in depth analysis of macroeconomic theory and policy with focus on applications, especially in

		context of developing economies like India. CO2: conduct labor market and policy analysis in the medium and long run. CO3: apply various macroeconomics tools in practice in respect to open and closed economies.
MC 417	Economics of Services	After the completion of this course student will be able to: CO1: describe about the Economics of various kinds of Services. CO2: recognize the related issues arises in Economics of Services. CO3: identify how to solve the issues that arises in the Economics of Services.
MC 418	World Trading System	After the completion of this course, student will be able to: CO1: identify economic principles relating to International Trade mercantilism, comparative advantage and gains from trade. CO2: conduct analysis of the covered agreements of the WTO. CO3: recognize challenges to the multilateral trading System.
MC 419	Bank Legislation	After the completion of course student, will be able to: CO1: appraise the practices of banking law. CO2: identify various banking laws and understand recent developments in the banking system. CO3: develop an understanding of various laws affecting Banks.
MC 420	Risk Management	After the completion of this course, student will be able to: CO1: describe the principles and practices of Risk Management. CO2: frame the optimum strategy for the handling of Risk in the organization. CO3: identify various types of risk involved in business

		Organizations.
MC 421	Actuarial Practice	After the completion of course, student will be able to: CO1: apply the principles and techniques of actuarial Practice. CO2: conduct in depth analysis of special and joint life annuities and assurances.
MC 422	COMPREHENSIVE VIVA-VOCE	Student after going through the viva-voce will be able to judge his/her hold on the subject and will also develop the confidence of facing an interview.

M.SC. (CHEMISTRY)

PROGRAM OUTCOMES (POs)	Students after completing this course, will be able to: PO1: demonstrate and apply the fundamental knowledge of the basic principles in various fields of Chemistry. PO2: develop critical thinking which will be able to put forward new ideas, explain observations and draw logical inference form scientific studies in field of chemistry. PO3: apply knowledge to build up small scale industry for developing smart product. PO4: develop ability to solve complex chemical problems, e.g., analysis of data, synthetic logic, spectroscopy, structure and modeling, team-based problem solving, etc. which are essential skills to succeed in field of research or in industry. PO5: apply various aspects of chemistry in natural products and its isolations, pharmaceuticals, dyes, textiles, polymers, petroleum products, forensic etc. and also to develop interdisciplinary approach to the subject. PO6: develop ability to handle standard laboratory equipment, modern scientific instruments, planning

	and performing the laboratory experiments. PO7: create awareness and sense of responsibilities towards environment and apply knowledge to solve the issues related to Environmental pollution.

Program Specific Outcomes (PSOs)	This course will enable the students to: PSO1: apply the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life. They will also be able to acquire knowledge about the fundamentals and applications of chemical and scientific theories. PSO2: find that every branch of science and technology is related to Chemistry. They will develop scientific outlook not only with respect to science subjects but also in all aspects related to life. PSO3: get familiar with the different branches of chemistry like analytical, organic, inorganic, physical, environmental, polymer and biochemistry. They will also learn to apply appropriate techniques for the qualitative and quantitative analysis of chemicals in laboratories and in industries. PSO4: apply the knowledge of Chemical Thermodynamics, Kinetics, Electrochemistry, Atomic Structure, Organic Chemistry, Spectroscopy and Skill in Industrial Chemistry. PSO5: use chemistry as a tool and the faculty of logical reasoning that is prepared to serve in diverse fields. PSO6: work in projects at different research as well as academic institutions.

COURSE OUTCOMES (COs)

SEMESTER-I		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
CH -411	Inorganic Chemistry I	Students after completing this course, will be able to: CO1: describe about different types of chemical bonds present in inorganic compounds and Metal-Ligand bonding. Also the limitations of crystal field theory and molecular orbital theory make them understand the need of other theories. CO2: understand the Metal-Ligand Equilibria in solution, Stepwise and overall formation constant and their interaction, chelate effect. CO3: explain Stereochemistry and bonding in Main Group compounds using VSEPR, Walsh diagrams and Bent rule. CO4: explain about Reaction Mechanism of Transition Metal Complexes, inert and labile complexes, kinetic Application of valance bond and crystal field theories. CO5: describe the chemistry of Substitution reactions in square planar complexes, the trans effect, mechanism of substitution reaction.
CH -412	Organic Chemistry I	Students after this course, will be able to: CO1: describe about quantitative treatment to The Hammett equation and linear free energy relationship. CO2: describe the nature of bonding involved in organic compounds. CO3: explain about aromatic, non-aromatic and anti-aromatic compounds using Huckel Rule.

		CO4: demonstrate about different techniques used or determination of reaction mechanism. CO5: state the basics of stereochemistry such as types of representation of 3-D structures, enantiomers, Di stereoisomers, racemic mixtures, resolution and how to carry out asymmetric synthesis. CO6: describe about conformational isomers and their effect on physical and chemical properties of various systems. CO7: explain the stereochemistry of six member rings and fused ring systems. CO8: explain the geometrical isomerism and its effect on physical properties. CO9: describe the types and mechanisms of Substitution reactions in organic chemistry.
CH -413	Physical Chemistry I	Students, after this course, will be able to: CO1: explain the Fundamental concepts of quantum mechanics which will help them to study Schrodinger wave equation to particle in three dimensional box, simple harmonic oscillator and rigid rotator. CO2: describe the operators and postulates of quantum mechanics, Approximate Methods, the variation principle and perturbation theory. CO3: explain the Huckel theory of conjugated systems, bond order and charge density calculations and application to ethylene, allyl, butadiene, cyclopropenyl systems. CO4: explain the laws of thermodynamics and the theoretical concepts of generalized forces and coordinates, work, and thermodynamic potentials. CO5: describe the meaning and the role of thermodynamic description of systems. CO6: describe methods of statistical thermodynamics,

		concepts of phase space and phase integral, temperature and chemical potential. CO7: investigate various phenomenon involving Ion-solvent interactions, Ion - ion interactions: Debye – Huckel theory of ion - ion interactions. CO8: explain about various phenomenon viz. Electrokinetic phenomenon, Electrocatalysis, Electrochemical Energy Conversion and Electricity Storage.
CH -414 (a)	Mathematics for Chemists	Students, after this course, will be able to: CO1: describe about Vectors and its types including Vector Calculus, Matrix and its properties, Determinant and its properties. Application of these concepts to solve problems related to Huckel Theory. CO2: define the derivative and integral of the trigonometric, logarithmic and inverse trigonometric and rational functions. CO3: state about Elementary differential equations and its applications to chemical kinetics, secular equilibria, quantum chemistry, etc. Solutions of differential equations by the power series method, second order differential equations and their solutions. CO4: describe about Differential Calculus, functions, continuity and differentiability. Learning of Rules for differentiation will make them able to solve problems of maxima and minima including Bohr's radius and most probable velocity from Maxwell's distribution. CO5: state about basic rules for integration, integration by parts, partial fraction and partial differentiation. Applications of integral calculus will help them in studying Functions of several variables, co-ordinate

		transformations and curve sketching. CO6: state about Permutations and combinations, probability, probability theorems and probability curves. These concepts will make them to explain examples from the kinetic theory of gases.
CH -414 (b)	Biology for Chemists	Students, after this course, will be able to: CO1: describe the Cell Structure and Functions including structure of prokaryotic and eukaryotic cell as well as will be able to do comparison of plant and animal cells. CO2: give the overview of metabolic processes as catabolism and anabolism. They will learn about the Origin of life and unique properties of carbon. CO3: state the structure and organization of cell membrane and cell wall, process of membrane transport and membrane models. CO4: describe about Biomolecules and its building blocks. Structure and functions of important derivatives of monosaccharides. CO5: state about the Lipids, fatty acids, their structures and function of triacylglycerols, glycerophospholipids, cholesterol, bile acids, prostaglandins. CO6: describe about Bioligical membrans and Lipid metabolism as well as beta oxidation of fatty acid. CO7: state the chemical and enzymatic hydrolysis of proteins to peptides, amino acid sequencing. Also about the Secondary structure of proteins. CO8: describe about Structure of ribonucleic acids RNA and deoxyribonucleic acids DNA, double helix model of DNA and forces responsible for holding it.
CH -414 (c)	Computer for Chemists	Students, after this course, will be able to: CO1: state about Computer and the basic concept associated with C-Language and program

		designing. CO2: develop different programs, Run and Retrieve results.
CH -415	Laboratory Course Inorganic Chemistry	Students, after this course, will be able to: CO1: explain about Gravimetric estimation of two constituents when present together in a given complex. CO2: do analysis of two cation-system using EDTA. CO3: state about laboratory ethics, safety, cleanliness waste management of the laboratory.
CH -416	Laboratory Course Organic Chemistry	Students, after this course, will be able to: CO1: show the essential laboratory skills required for organic synthesis by performing synthesis of important organic compounds. CO2: describe the different purification techniques in organic chemistry like recrystallization, distillation, steam distillation and extraction. CO3: use safety techniques and handling of chemicals. CO4: carry out different types of reactions and their workup methods. CO5: do synthesis of various organic compounds involving different types of Organic reactions.
CH -417	Laboratory Course Physical Chemistry	Students, after this course, will be able to: CO1: prepare the solution of the desired concentration and the desired volume, maintain laboratory ethics, safety and cleanliness. Understand waste management of the laboratory. CO2: use the physical methods to calculate surface tension and viscosity of various solvents and their unknown percentage mixtures. CO3: compare the cleansing power of detergents and precipitation of various ions. They will also learn to determine critical micelle concentrations of

		surfactants. CO4: determine the partial molar volume and solubility of various inorganic salts. CO5: plot accurate graphs of the desired scale for the calculations.
SEMESTER-II		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
CH -421	Inorganic Chemistry I	After completing this course, the students will be able to: CO1: describe about Electronic Spectra and Magnetic Properties Of Transition Metal Complexes through Orgel and Tanabe-Sugano diagrams for transition metal complexes-I and II. CO2: explain about the Metal carbonyls and their structure and bonding, vibrational spectra of metal carbonyls along with structure elucidation. CO3: demonstrate the Importance of reactions of metal carbonyls and their preparation in various fields. CO4: describe about the chemistry of Metal Cluster such as higher boranes, carboranes, metallobranes metallocarboranes and compounds with metal-metal multiple bonds.
CH -422	Organic Chemistry I	Students, after this course will be able to: CO1: describe the relationship of structure and reactivity in organic reactions through Hammond's postulate, Curtin-Hammett Principle and isotopes effects. CO2: explain about the types and mechanisms of elimination reactions in organic chemistry as well as Mechanism and orientation in pyrolytic elimination.

		CO3: describe the addition reactions to C-C and Carbon-hetero multiple bonds by using regio and chemoselectivity concepts. A number of naming reactions will help them to justify the industrial need of this topic. CO4: explain the concepts of Free radical reactions and its types, the effect of solvents on reactivity and the synthetic importance of these materials. CO5: describe about the pericyclic reactions utilizing molecular orbital symmetry and frontier orbitals concepts of various organic compounds. Also the Classification of pericyclic reactions through Woodward-Hoffmann correlation diagrams and FMO /PMO approach.
CH -423	Physical Chemistry I	Students, after this course, will be able to: CO1: describe about Fundamental concepts of chemical dynamics such as Methods of determining rate laws. CO2: describe about the kinetics of enzyme reactions, dynamics of molecular motion and unimolecular reaction. CO3: explain about the study of fast reactions by flow method, relaxation method, flash photolysis, and NMR method. CO4: describe about the Thermodynamic criteria for non-equilibrium states, entropy production and entropy flow. CO5: describe the phenomenological equators, microscopic reversibility and Onsager's reciprocity relations, electro kinetic phenomenon. CO6: describe about the chemistry of Macromolecules

		in detail through chain configurations of macromolecules and calculation of average dimensions. CO7: recognize the different concepts of Adsorption and Micelles of surface chemistry. Theoretical knowledge of these concepts will help them when they perform experiments in lab. CO8: describe about Electrochemistry and Electrocatalysis through Debye-Huckel treatment, and its extension to Debye-Huckel-Jerrum model.
CH -424	Group Theory, Spectroscopy and Diffraction Methods	Students, after this course, will be able to: CO1: describe about the concepts of group theory and its uses in octahedral, tetrahedral, square planar and trigonal bipyramidal complexes. CO2: describe about the applications of group theory, in spectroscopy by studying inorganic complexes, using great orthogonality theorem and character tables. CO3: explain about Microwave, Raman, Molecular and Vibrational Spectroscopy. These concepts will generate a view to study spectroscopy through physical and quantum mechanical aspects. CO4: describe the basic Principles of Photoelectric Effect and Diffraction by learning the methods to determine Miller indices and Bragg's condition. Principal and applications of neutron diffraction and electron diffraction and their comparison. CO5: explain the basic concepts in Nuclear Magnetic Resonance (NMR) and Nuclear Quadrupole Resonance (NQR) spectroscopy.
CH -425	Laboratory Course Inorganic Chemistry	Students, after this course will be able to: CO1: prepare the different inorganic compounds and

		utilize them in further reactions. CO2: interpret the electronic spectrum and magnetic properties of synthesized compounds.
CH -426	Laboratory Course Organic Chemistry	Students, after this course, will be able to: CO1: separate the solid-solid/ solid-liquid/ liquid-liquid mixture of two organic compounds. CO2: identify the functional groups by using different qualitative lab techniques. CO3: identify the organic compounds by different conformation tests and by preparation of derivatives. CO4: do Separation of organic mixture by preparation of TLC plates.
CH -427	Laboratory Course Physical Chemistry	Student, after this course will be able to: CO1: prepare the solution of the desired concentration and the desired volume and Maintain laboratory ethics, safety and cleanliness. CO2: describe the principle and safe handling of Flame Photometer, Potentiometer and Polarimeter. CO3: plot accurate graphs of the desired scale for the calculations. CO4: describe about the waste management of the laboratory as this topic is very crucial from environmental safety point of view.
SEMESTER-III		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
CH -511	Applications of Spectroscopy	Students, after this course will be able to: CO1: describe the basic principles, spectral parameters and spectrum display in Electron Spin Resonance (ESR) Spectroscopy and NMR of paramagnetic substances in solutions.

		CO2: explain about Mossbauer Spectroscopy and its Applications in studying Various iron and tin compounds. CO3: explain about the Microwave, Ultraviolet and Visible Spectroscopy and Vibrational Spectroscopy. Instrumentation and sample handling for these spectroscopies. CO4: compare between first order and second order spectra in NMR spectroscopy. CO5: describe the basic and fundamental aspects of Mass spectrometry and ^{13}C NMR.
CH -512	Organo transition Metal Chemistry	Students, after this course, will be able to: CO1: describe the various compounds of Transition Metal-Carbon Multiple Bonds and Transition Metal Compounds with Bonds to Hydrogen. CO2: describe the chemistry of Transition Metal Complexes along with Alkyls and Aryls of Transition Metals. CO3: explain about Transition Metal Complexes with unsaturated Organic molecules and reactions relating to nucleophilic and electrophilic attack on ligands in organic synthesis. CO4: describe the basics and applications of fluxional organometallic compounds and Homogeneous Catalysis. CO5: describe about Homogeneous Catalysis, Stoichiometric reaction for catalysis, homogeneous catalytic hydrogenation related concepts.
CH -513	Heterocyclic Chemistry	Students, after this course will be able to: CO1: state the Nomenclature of Heterocycles using Hantzsch-widman System. CO2: explain about Chemical behavior of Aromatic and non-aromatic Heterocycles utilizing information

		from Spectra empirical resonance energy, delocalization energy and Dewar resonance energy. CO3: do synthesis of five, six and seven-membered heterocycles. CO4: do classification, chemistry and applications of some important meso-ionic heterocycles and azoles. CO5: do practicals for various heterocyclic and photochemical conversions.
CH -514	Environmental Chemistry	Students, after this course will be able to: CO1: explain about the composition of atmosphere and Biogeochemical cycles of C,N,P,S and O. CO2: describe the concepts of Environmental Toxicology and Chemical solutions to environmental problems for better industrial processes. Students will know about the tragic accidents occurred in the past. CO3: explain about the chemistry of Industrial Pollution, Soils and Hydrosphere. CO4: demonstrate the Chemical and photochemical reactions in atmosphere responsible for Ozone depletion, Global warming, Green house effect and acid rain.
CH -515	Laboratory Course Inorganic Chemistry	Students, after this course, will be able to: CO1: estimate various cations and anions using Colorimetric methods. CO2: use Separation techniques such as Ion exchange, Solvent extraction, Column and paper chromatography.
CH -516	Laboratory Course Organic Chemistry	Students, after this course will be able to: CO1: prepare various organic compounds. CO2: explain TLC, column chromatography and paper chromatography for organic mixture.

CH -517	Laboratory Course Physical Chemistry	Students, after this course will be able to: CO1: measure conductance, equivalent conductance and degree of dissociation of various acids, bases and their mixtures. CO2: compare the strengths of two acids and kinetics of salts by employing Chemical kinetics. CO3: determine the equilibrium constant by distribution method. CO4: calculate critical solution temperature of various Polar and non-polar mixtures.
SEMESTER-IV		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
CH -521	Biophysical chemistry	Students, after this course will be able to: CO1: explain about the DNA and RNA in living systems. CO2: describe about the enzymes and their nomenclature and types. Also the mechanism of the enzyme action will be explained using Fischer's lock and key and Koshland's induced fit hypothesis. CO3: describe about the type of Reactions Catalyzed by Enzymes and co-enzymes concepts. CO4: explain about biological macromolecules and their interactions including their structural properties. CO5: describe about the separation and characterization methods of macromolecules ATP cycles and concepts of nucleic acids. CO6: state about Thermodynamics of Biopolymer Solutions including osmotic pressure, membrane

		equilibrium, muscular contraction.
CH -522	Organic Synthesis - I	Students, after this course will be able to: CO1: explain about Organometallic Reagents and various types of synthesis including Cram's Rule, Felkin-Ahn Model. CO2: describe various oxidative and reductive processes for Hydrocarbons, Carbonyl compounds and alcohols. CO3: describe general mechanistic considerations- nature of migration, migratory aptitude and rearrangements.
CH -523	Chemistry of Natural Products	Students, after this course, will be able to: CO1: describe about the classification, nomenclature, occurrence isolation of terpenoids and carotenoids. CO2: describe the general methods of structure determination for alkaloids, terpenoids and carotenoids. CO3: explain about the occurrence and basic skeleton of steroids including synthesis and Biosynthesis of Steroids. CO4: describe about the nomenclature and general methods of structure determinations of plant pigments, porphyrins and Prostaglandins.
CH -524	Photo Chemistry and Solid State Chemistry	Students, after this course, will be able to: CO1: explain the Photochemistry of Photochemical Reactions and the determination of reaction mechanism. CO2: describe the Photochemistry of alkenes, carbonyl and aromatic compounds and their miscellaneous reactions. CO3: describe the solid state reactions and their properties like crystal defects and non-

		stochiometry and to know about electronic properties or band theory. CO4: describe Optical properties, Magnetic properties of materials and Quantum theory of paramagnetics.
CH -525	Laboratory Course Inorganic Chemistry	Students, after this course, will be able to: CO1: analyze presence of residual chlorine, BOD, COD and hardness in water. CO2: find amperometric determination of Zn^{+2} with EDTA and Thiosulphate with iodine. CO3: describe different Oxidation-Reduction, precipitation titrations. CO4: describe about reactions involving oxidation and reduction processes involving iodine.
CH -526	Laboratory Course Organic Chemistry	Students, after this course, will be able to: CO1: explain about extraction of organic compound from natural sources. CO2: determine the saponification & iodine values of oils and fats. CO3: describe about the Fehling's method. CO4: determine estimation of formaldehyde and glycin.
CH -527	Laboratory Course Inorganic Chemistry	Students, after this course, will be able to: CO1: describe about Current Potential Relationships and analysis of Spectro-photometric technique. CO2: state about techniques such as colorimetry, refractometry and Chromatography. CO3: analyze data on a computer for all experiments.

BACHELOR OF LIBRARY AND INFORMATION SCIENCE

PROGRAM OUTCOMES (POs)	The designing of the Library & Information Science programme is to provide the organization of knowledge, processing of the knowledge, dissemination of information, automation of library, networking,

	communication technology, management techniques in organization of library informatics centers, thus also provide hands on practice on different types of information, source and services, aware about different types of e- resources and their use, use of advanced version of technology in library operations, aware about various consortia and consortia- based resources to prepare students for careers as professionals in the field of library Information science. The completion of the course will enable the student to: PO1: respond to the changing information needs of society. PO2: apply the basic principles and theories of Library and Information Science. PO3: develop proficiencies and abilities of students essential for management of Libraries and Information Systems. PO4: describe the role of Libraries and Information Centers in socio-economic development of the society. PO5: apply Information and Communication Technology in Libraries and Information Centers. PO6: recall the broad range of disciplines of library information science. PO7: get skilled in knowledge organization and techniques. PO8: interpret various types of libraries, sources and services, personality development and communication skills, information resource development, intellectual property rights and copyright knowledge management, information literacy and management.

PROGRAM SPECIFIC OUTCOMES (PSOs)	Curriculum of Library & Information Science prepares graduates to gain the following programme specific outcomes: PSO1: Ability to design or develop the students with

	the basic concept and Philosophy of librarianship. PSO2: An ability to practice or apply the library skills, communication skills in a wide range of academic, institutions and professional employment areas. PSO3: To display critical thinking for creating new ideas and design innovative pathways. PSO4: Demonstrate the knowledge in his/her professional activities. PSO5: Display his/her true potential and get appropriate endorsement through qualifying competitive examinations i.e. All Academic Libraries, Railways Libraries, Bank Libraries and Parliament Libraries etc. PSO6: Acquire the ability to engage in self-determining and life- long learning in the broadest context of socio- technological changes in the library information center.

COURSE OUTCOMES (COs)

COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
SEMESTER-I		
BLIS 01	Foundation of Library and Information Science	After completion of this course, the student will be able to: CO1: describe the definition, history and purpose of the library. CO2: recall the role of professional associations and the standard professional ethics of librarianship. CO3: state the types of libraries and their functions. CO4: explain the fundamental laws, legislations and associations. The role of libraries in modern society and global library developments.

		CO5: commit to state the individual, institutional, society and professional responsibility. CO6: apply the concept of resource sharing, financial management of different types of libraries.
BLIS 02	Knowledge Organization: Classification (Theory)	The outcome of this course is that the student after completion of the course will be able to: CO1: describe the basic concept of organisation of knowledge. CO2: differentiate between the various library classification schemes. CO3: explain why and how to develop knowledge organization systems. CO4: relate the theory and practices involved in library classification. CO5: classify the library schemes and the follow the trends in classification. CO6: work in libraries, information centres and other organizations that organize large bodies of recorded information. CO7: apply the principle of book classification.
BLIS 03	Knowledge Organisation: Cataloguing (Theory)	After completion of this course the student will be able to: CO1: apply the concept of cataloguing and the functions of library catalogues. CO2: develop knowledge organization systems. CO3: apply the knowledge for organization systems and approaches. CO4: apply principles and theories of library cataloguing. CO5: follow the cataloguing rules of CCC and AACR. CO6: follow the various standards available and used in cataloguing.

		CO7: apply the concept of authority control and to be able to select main and added entries.
BLIS 04	Information and Communication Technology: Basics	The outcome of this course is that the student after completion of the course will be able to: CO1: apply the basics of information communication and technology relevant to librarianship and information management. CO2: recall the latest technological advancements in the field of ICT such as databases, search engines and the Internet. CO3: apply the knowledge about basics of ICT. CO4: state the network technology, library automation and software packages. CO5: use the computerization in libraries, advanced version of technology in library operations and the students will be skilled enough to work in automated library environments. CO 6: differentiate between Open Source and Commercial software. CO7: evaluate and select suitable software required for the libraries.

SEMESTER-II		
COURSE CODE	NAME OF THE COURSE	COURSE OUTCOMES
BLIS 05	Management of Library and Information Centers	After completion of this course, the student will be able to: CO1: perform the basic housekeeping operations, prepare budget documents and perform the stock verification.

		CO2: apply the basics of collection management and Human resource management. CO3: apply the fundamentals of management, frame policies and process of libraries and perform routine activities of libraries. CO4: use the management techniques in organization of library & information centers. CO5: manage the library & information centers effectively. CO6: describe the terminology of management with its related terminology as applied to libraries and information centers. CO7: recall the different schools of thought. CO8: identify the fundamental components of management, planning, organizing, staffing, directing and control. CO9: identify the main approaches to the study of the management of an organization. CO10: show skills in managing resources, money, people and time and demonstrate management skill in libraries and information centers.
BLIS 06	Knowledge Organisation: Classification (Practice)	After completion of this course, the student will be able to: CO1: explain the skills in classification. CO2: determine and classify library resources by using scheme of classification-DDC and CC. CO3: apply the principles of how-to-do methods on building up class numbers. CO4: use the knowledge of two classification schemes: Dewey Decimal Classification and Colon Classification. CO5: describe about the schedules, the rule books and also the number building process. CO6: observe, correct, and to check the workouts of the students till arrive at the desired class

		number.
BLIS 07	Knowledge Organisation: Cataloguing (Practice)	After completion of this course the student will be able to: CO1: prepare various catalogue entries for simple, complex, various authorships, editorial publications, serial publications and corporate body authored documents. CO2: show their cataloguing skills for various library resources according to AACR-II. CO3: assign subject headings using Sear's list Subject Headings. CO4: perform cataloguing of books. CO5: perform cataloguing of journals. CO6: apply their knowledge regarding e-books and e-journals. CO7: do cataloguing of non-book material.
BLIS 08	Information Sources and Services (Theory)	After completion of this course, the student will be able to: CO1: apply the broad range of information sources and services available in various subject areas. CO2: evaluate and suggest authentic and useful information sources to library users. CO3: provide reference services to users of a library. CO4: critically analyse and evaluate the information sources. CO5: state the requirements and step-by-step Process for handling their information queries. CO6: describe the various Internet resources in the areas of Science and Technology, Social Sciences and Humanities. CO7: apply their knowledge in retrieving databases and on-line /web information resources in network environment.

BLIS 09	Information and Communication Technology (Practical)	After completion of this course, the student will be able to: CO1: practically use and implement the basics of information communication and technology to librarianship and information management. CO2: explain the features of the latest Operating Systems, Office management software. CO3: use the basic concept of computer networks. CO4: apply the basic concepts of computers technology. CO5: state the various aspects of computer hardware and software.

POST GRADUATE DIPLOMA OF COMPUTER APPLICATION (P.G.D.C.A.)

PROGRAMME OUTCOMES (POs)	At the end of the one-year P.G.D.C.A. programme the students will be able to: PO1: design, develop applications in Information Technology. PO2: use the latest trends in various subjects of computers & information technology. PO3: use their knowledge in solving challenges in data and resource protection and computer software security. PO4: use IT application in real life. PO5: describe the basic computer technology concepts and information technology applications. PO6: Design and develop applications to analyze and solve all computer science related problems.

PROGRAM SPECIFIC OUTCOMES (PSOs)	At the end of the one-year PGDCA programme the students will be able to: PSO1: use open-source technologies and can seek appropriate opportunity in trade and industry.

	PSO2: provide socially acceptable technical solutions to real world problems with the application of modern and appropriate programming techniques. PSO3: design applications for any desired needs with appropriate considerations for any specific need related to societal and industrial aspects. PSO4: find a job very easily in the present job market. PSO5: undertake Master Programme and for designing small business application software as per the need of industry and real world.

COURSE OUTCOMES (COs)

SEMESTER – I		
COURSE CODE	COURSE NAME	COURSE OUTCOMES
PGDCA-1101	Computer Fundamentals	After completing this course, the students will be able to: CO1: describe about the types of computer, peripheral devices, memory management, multimedia and number system. CO2: use various input and output devices. CO3: state about binary number representation along with its operations. CO4: recall the theoretical framework of internet and associated application of the internet. CO5: use the computers for business, education and society.
PGDCA-1102	Computer Programming using C	At the end of the course, the students will be able to: CO1: use the various concepts of programming language. CO2: develop logics and analytical ability to solve problem. CO3: apply the procedural programming using functions. CO4: use various storage classes along with user

		defined data types. CO5: use various flow control statements and do file handling. CO6: apply the concept of functional hierarchical code organization. CO7: work with arrays of complex structure data types.
PGDCA-1103	Database Management System	Students, after the completion of the course, will be able to: CO1: describe the various features and applications of Database Management system. CO2: use database languages (DDL, DML, DCL) CO3: design a database by using different data models. CO4: apply their knowledge in the database handling during execution of the transactions along with concurrent access. CO5: perform various types of SQL queries. CO6: design a good database using normalization, decomposition and functional dependency.
PGDCA-1104	Data Communication and Networks	The students, after this course, will be able to: CO1: explain the functions of different layers of TCP/IP and OSI reference models. CO2: classify the networks as LAN, MAN and WAN. CO3: identify the various techniques and modes of transmission media with real time applications. CO4: apply the fundamentals of Network security.
PGDCA- PR-1105	Lab 1 (Based on PGD-1101 & PGD- 1102)	The students, after this course, will be able to: CO1: illustrate flowchart and algorithm to the given problem. CO 2: describe the basic Structure of the C-programming, declaration and usage of variables. CO 3: write C programs using operators. CO 4: write C programs using Pointers to access

		arrays, strings and functions. CO 5: exercise user defined data types Program with pointers and arrays, perform pointer arithmetic, and use the pre-processor, the students will be able to develop applications
PGDCA-PR-1106	Lab 2 (based on PGD-1103)	The students, after this course, will be able to: CO1: design and create relational database systems. CO2: execute advanced queries such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. CO3: use various softwares to design and build ER Diagrams, UML, Flow chart for related database systems.

SEMESTER - II		
COURSE CODE	COURSE NAME	COURSE OUTCOMES
PGDCA-2101	Object Oriented Concepts using JAVA	The students, after this course, will be able to: CO1: use object oriented programming concepts to solve real world problems. CO2: explain the concept of class and objects with access control to represent real world entities. CO3: demonstrate the behavior of programs involving the basic programming constructs like control structures, constructors, string handling and garbage collection CO4: use overloading methodology on methods and constructors to develop application programs. CO5: demonstrate the implementation of inheritance (multilevel, hierarchical and multiple) by using extend and implement keywords. 6. Describe the concept of interface and abstract classes

		to define generic classes. CO6: use multithreading concepts to develop inter process communication and implement concepts on file streams and operations in java programming for a given application programs. CO7: describe the backend connectivity process in java program by using JDBC drivers and develop java application to interact with database by using relevant software component (JDBC Driver).
PGDCA-2102	Web Technologies	The students, after this course, will be able to: CO1: develop web pages using HTML and Cascading Style Sheets. CO2: create XML documents and Schemas. CO3: build dynamic webpages using client-side (JavaScript) and server-side scripting (PHP, ASP.NET) languages. CO4: use Web Application Terminologies, Internet Tools, E – Commerce and other web services.
PGDCA-2103	Software Engineering	The students, after this course, will be able to: CO1: describe pre-requisites for planning a software project. CO2: design and test the software. CO3: explain concept of software engineering and its relevance. CO4: use the various methods or models for developing a software product. CO5: analyze existing system to gather requirements for proposed system.
PGDCA-2104	Computing Based Accounting	The students, after this course, will be able to: CO1: use Tally for accounting purpose. CO2: demonstrate and understand accounting

		theory. CO3: apply accounting procedures using specialized computer accounting software. CO4: communicate effectively using standard accounting terminology. CO5: demonstrate an understanding of accounting reports and records.
PGDCA- PR-2105	Lab 3 (Based on PGD-2101)	The students, after this course, will be able to: CO1: write programs for solving real world problems using java collection frame work. CO2: write programs using abstract classes. CO3: write multithreaded programs. CO4: write GUI programs using swing controls in Java. CO5: demonstrate the behavior of programs involving the basic programming constructs like control structures, constructors, string handling and garbage collection. CO6: use overloading methodology on methods and constructors to develop application programs. CO7: demonstrate the implementation of inheritance (multilevel, hierarchical and multiple) by using extend and implement keywords.
PGDCA-PR-2106	Lab 4 (Based on PGD-2102)	The students, after this course, will be able to: CO1: write valid and concise code for web pages. CO2: create web elements like buttons, banners. CO3: design Forms and validations for the website. CO4: write and debug webpage using HTML and DHTML languages. CO5: make use of knowledge related to links, addresses, images, and tables. CO6: use various formatting options on HTML

		page and website.
PGDCA-PR-2107	Project Work: Project will involve Development of Business Application/Website	The students, after this course, will be able to: CO1: demonstrate a sound technical knowledge of their selected project topic. CO2: design an Online Project with advanced technologies of their choice. CO3: develop a project professionally. CO4: prepare a SRS report. CO5: develop good presentation skills.