B.A(Bachelorof Arts)

ProgrammeName	ProgrammeOutcomes
B.A.	**Onsuccessfulcompletionoftheprogramme,thestudentswould beableto:** **PO1**- Have basic knowledge of Languages,HumanitiesandSocial Sciences. **PO2**-They will be acquainted with the social, political, economic, geographical traditions, ideology and thinking of the respective subjects. **PO3**-Thestudentswillhaveproficiencyinlanguages. **PO4**-The students willbe ignited enough to thinkandactover the solutionsof variousissues. **PO5**-The B.A. programme enables the students to acquire knowledge of human values framing the base to dealwith various problemsin lifewith courage. **PO6**-Theywillbe ignitedtothinkover thesolutionofvariousissues in lifeto make the worlda better place. **PO7**-The BA programme providesthe base tobe the responsible citizen. **PO8**-Theprogrammewillenablethestudentstoappearforvarious competitive exams or choose the post graduate courses of their choice. **PO9**-They will be sensitized about professional careers i.e. teaching, police,banking,army, mediaandcreative writing.
CourseName	**CourseOutcomes**
Semester-I **English(Compulsory)**	**At theendofthecourse,thestudentswouldbeableto: CO1**-Comprehend the literaryaspectsof thelanguage. **CO2**Enhancetheirthinkingabilitywhiledealingwiththemesof Poetry and Prose. **CO3**-Theywouldbeableto understandthesignificanceof Literatureand Grammar. **CO4**-Students'writingskillsandreadingskillswouldbeenhanced.
Semester-II **English(Compulsory)**	**CO1**-Thetextpromotesethicalvalues. **CO2**-Essaywritingskillstrainthemin fulfillingthesocial duties. **CO3**-Ithelps themtocomprehend human weaknessesand overcomethem. **CO4**-LetterWriting ishelpfulfor studentsin their formal interactionwith others.

	CO5-Improvementinwritingskillsalongwithbroadeningtheir socialandpsychologicalhorizon.
Semester-III English(Compulsory)	**Thestudentswouldbeableto:** **CO1**-Enhancewritingskillsandreading skills. **CO2**-Acquire extensive knowledge of English language in its varioustextual forms. **CO3**- Acquire knowledge of various literary aspects through the text which capacitates them to enrich their literary and cultural values. **CO4**-EmpoweredinsuchawaythatEnglishbecomesapleasurable endeavour.
Semester-IV English(Compulsory)	**CO1**-Writingskillsandreadingskillswouldbeenhanced. **CO2**-Acquire extensive knowledge of English language in its varioustextual forms. **CO3**-Inculcate the values of life such as being Optimistic, Conservationof Nature andConfidenceBuilding. **CO4**- Acquire knowledge of various literary aspects through the text which capacitates them to enrich their literary and cultural values.
Semester-V English(Compulsory)	**CO1**-Comprehendtheliteraryaspectsofthelanguage. **CO2**-Acquire knowledge of language skills including synonyms, antonyms,spellingandtranslation. **CO3**-Develop the ability to write fluently with grammatically acceptable sentences and construct paragraphs through correct English. **CO4**- Inculcate the values of life such as being optimistic, conservation of nature andconfidencebuilding. **CO5**-Demonstrate tolerance in the midst of racial or any other differences, live with love and peace, glorify life and have moral faith in the creator throughthe reading of the poems.
Semester-VI English(Compulsory)	**CO1**-Enhancetheirthinkingabilitywhiledealingwiththemesof Poetryand Prose. **CO2**-Enhance awarenessof community,cultureandlanguage. **CO3**-Applythe knowledgeof CreativeWritinglikestories, reports and features in journalsand newspapers. **CO4**-Use flawless sentences,idioms and phrases, foreign expressions,British/Americanwords throughlanguageskill. **CO5**-Learnthecritical appreciationof EnglishLiterature. **CO6**-Docriticalanalysisofliteraturein thelightof culture, psychology,and economics.

Semester-I English(Elective)	**CO1**-Know the relevance and importance of proper communication. **CO2**-Enhancetheirthinkingabilitywhiledealingwiththemesof Poetry and Prose. **CO3**-Learningorstudyinggrammarwouldguidethemtofocuson syntactic& semanticparts of the language. **CO4**-Developingcriticalandanalyticalabilityofthelearners. **CO5**-Understandingofliterarytermsand devices.
Semester-II English(Elective)	**CO1**-Studentswouldbeabletocomprehendtheliteraryaspectsof thelanguage. **CO2**-Theylearn about the variousaspectsof communication. **CO3**-Thereadingandwritingskillsofthestudentsgetimprovised. **CO4**-Theirwritingskillsget enhancedastheylearnhow toframe officialletters.
Semester-III English(Elective)	**CO1**-Developcriticalandanalyticalability. **CO2**-Understandingofliterarydevices. **CO3**-Criticalanalysis of literature in the light of culture, psychology,and economics. **CO4**-Improvement of pronunciation, and inculcate an understandingof phonetics.
Semester-IV English(Elective)	**CO1**-Understandliteraryterms, conceptsandgenres. **CO2**-Appreciateandanalyzedifferentliterarytexts. **CO3**-Writing skillsandreading skillswould be enhanced. **CO4**-AcquireextensiveknowledgeofEnglishlanguageinits varioustextual forms. **CO5**-Explore, discuss and express their views onvarioustopics. **CO6**-EmpoweredinsuchawaythatEnglishbecomesa pleasurable endeavour.
Semester-V English(Elective)	**CO1**-TheywouldbeabletounderstandthesignificanceofLiteratureandGrammar. **CO2**-IntroducedtothebasicconceptsofLiterature. **CO3**-Enhancing awarenessofcommunity,cultureand language. **CO4**-Empoweredtoread,analyseliterarytextsandwriteapoem, proseessayor drama inan independentmanner.
Semester-VI English(Elective)	**CO1**-Enhancetheirthinkingabilitywhiledealingwiththemesof Poetryand Prose. **CO2**-Comprehendhumanweaknessesandovercomethem. **CO3**-Improvetheirwritingskillsalongwithbroadeningtheirsocial and psychologicalhorizon. **CO4**-Essaywritingskillstraintheminfulfillingthesocial duties. **CO5**-Ithelps themtocomprehend human weaknesses and overcomethem.

Punjabi(Compulsory)	CourseOutcomes
bI.e smsstr-pihlw **lwzmIpjwbI**	1. ividAwrQIkivqwdIpusqkdwAiDAYnkrdwh[2. pMjwbIswihqivckvIAWdIAWrcnwvWbwrjwxkwrIpRwpq krdwhY[3. rcnwivcNivcwrWnUMgihxkrndIsJpYdwkrdwh[4. ivAwkrxivcivAwkrxdIpirBwSw,lKqysKprcnwbwrividAwrQI nUMjwxkwrIdxwpRwpqkrdwh[
klsbI.esmsstr-djw **lwzmIpjwbI**	1. ividAwrQIkhwxIdIpusqkdwAiDAYnkrdwh[2. ividAwrQIAWnUMUkhwxIkwrWdIAWrcnwvWqoNjwxhwdwh[3. ivAwkrxivc DnIgwm,svrDnIAWqyivAMjnDnIAWbwrjwxkwrIpRwpq krdwh[4. ividAwrQIrzwnwizdgIivcvrqoNleIscnwihqnitsilKxwisK dwh[
kls bI.e smsstr- **qIjwlwzmIpjwbI**	1. ividAwrQIAWnUMinbDsbDIjwxkwrIhwdIh[2. inbDdwbhpKIAiDAYnkrndIsJpYdwhwdIh[3. inbDkwrWdIswihqkKqrivcBimkwdIsJIhwdIh[4. icTIp`qrAqypMjwbIBwSwbwrjwxkwrIpRwpqkrdwh[
klsbI.esmsstr-cQw **lwzmIpjwbI**	1. ividAwrQIAWnUMpMjwbIiekWgIbwrjwxkwrIhwdIh[2. iekWgIkwrWdyXgdwnbwrjwxkwrIpRwpqkrdhn[3. ivAwkrxivcpMjwbIdIAWSbdSwxIAWbwrjwxkwrIhwdIh[4. ivAwkrxivcpMjwbIdIAWapBwSwvWdIpihcwxhwdIh[

kls bI.e smstr- **pjvlzmlpjwbI**	1. ividAwrQIAWnUMmDkwlIpMjwbIkiv-DwrwbwrjxkrlhdIh[2. ivcrdqrqIbbDpRgtwvnUMaBwrdwh[3. pMjwbIBwSwsbDIivsQrpUrvksmJpYdwkrdh[4. ivAwkrxivcvwkWdyBydWbwrjgrkkrvwadwh[
klsbI.esmstr-Cvl **lzmlpjwbI**	1. ividAwrQIAW nUMpMjwbIieiqhwsknvlbwrivsiqRqjwxkwrlhdIh[2. nvlivclBwvWnUMgihxkrndyXgbxwadwh[3. grmKIilpIdyieiqhwsnljxpCwxkrvwadwh[4. ivAwkrxivcvwkbxqrbwrjxkrlididwh[
kls bI.e smstr- **pihlwielkitvpljwbI**	1. ividAwrQIAWdIAwDinkpMjwbI kivqw sbDIjxkrlnWhrivsQrpRwpqhdwh[2. pMjwbIswihqdieiqhwsivcividAwrQIAWdI idlcsplnUM pYdwkrdwh[3. sihqdrpWbwrfGIjxkrlhdIh[
klsbI.esmstr-djw **ielkitvpljwbI**	1. ividAwrQIAW dI AwDinkkivqwsbDIjxkrlnWhrivsQrpRwp qhdwh[2. nvlrwhlpMjwbdypyNfsiBAwcrqoNjwxkrvwadwh[3. pMjwbIswihqdyieiqhwsivc ividAwrQIAW dIidlcspI pYdw hdIh[4. nvldyieiqhsbwrfGIjxkrlhdIh[5. pMjwbIswihqAwlcnwbwrjxkrlhdIh[
kls bI.e smstr- **qIjwielkitvpljwbI**	1. ividAwrQIAWnUMmDkwlIpMjwbIkivqwbwrjxkrlhdIh[2. sPrnwmivcividAwrQIAWdIidlcsplnUMpYdwkrnwh[3. pMjwbIswihqdieiqhwsdq`QWnUMinSicqkrdh[4. khwxIswihqrpWqoNividAwrQIAWnUMjwxkrvwadwh[5. BwrqIkwivSsqrAqyBwSwvngIAWbwrjxkrlpRwpq krdhn[

kl sbI.e sm str-cQw **iel kitvp jwbI**	1. ividAwrQIAWnUMmDkwlIpMjwbIkivqwbwrjxkrldxwh[2. khwxlrwhIIividAwrQIAldjAnBvnUMhrfIGwbxwadwh[3. pMjwbIswihqdjieiqhwssbIDIq`QWnUMhrsp`St hwdjhn[pMjwbIkhwxI dswihqrjpbwrjivsQwrpUrvkjwxkwrlhIdlh[4. swihqAwlcnwbwrjxkrlhwdlh[
kl s bI.e sm str-pjvWiel kitvp jwbI	1. ividAwrQIAWnUMpurqwnpMjwbIkivqwbwrivsiqRqjxkrlhIdlh[2. pMjwbInwtkbwrjrcIpYdwkrnwhYAqynwtkivclivcwrWnUMgih xkrn djkwibIbxwadwh[3. pMjwbIswihqdyieiqhwsqojwxkrvwadwh[4. BwrqIkwivSsqrAqyswihqrjpWbwrjxkwrlhwdlh[
kl sbI.e sm str-Cvw **iel kitvp jwbI**	1. ividAwrQInUMpurwqnpMjwbIkivqwbwrjivsiqRqjxkrlhIdlh[2. inbIDivDwdwAiDAYnkrdh[3. pMjwbIswihqdyieiqhwsdljwxkwrlpRdwnkrdwh[4. p`CmIkwivSwsqrnwljwx-pCwxkrvwadwh[5. BwSwivigAwndljwxkwrldwGjrwivSwlkrdwh[

SemesterI HistoryandCulture ofPunjabFromThe EarliestTimes ToPre-MauryanPeriod	**Thestudentsareableto:** **CO1**-Knowthe richhistoryandcultureofPunjabduringtheearly times. **CO2**-Gainbetterknowledgeandunderstandingof the variousages throughwhich Punjab has evolvedtoitspresent state. **CO3**-Thinkandarguecriticallyof thecultureandhistoryof Punjab. **CO4**-UnderstandsocialandculturalheritageofPunjab.
SemesterII HistoryandCulture ofPunjab From MauryanTimesTo 1200A.D.	**CO1**-KnowtherichhistoryandcultureofPunjabfromMauryan Timesto1200A.D. **CO2**- Tothinkand arguecriticallyofthecultureandhistoryof Punjab. **CO3**-UnderstandsocialandculturalheritageofPunjab.
SemesterIII Historyand Cultureof Punjab1200-1700A.D.	**CO1**-KnowledgeoftherichhistoryandcultureofPunjabduringthe medievaltimes. **CO2**- Tothinkand arguecriticallyofthecultureandhistoryof Punjab. **CO3-**Understandtheadventof SikhisminPunjabandcontributions of the SikhGurustowards the developmentof SikhPanth. **CO4**-DevelopmentofART,literatureandarchitectureinPunjab.
SemesterIV HistoryandCulture of Punjab 18th and Early 19th Centuries	**CO1**-HaveknowledgeoftherichhistoryandcultureofPunjab during18thandearly19thcenturies. **CO2**-Study theroleplayedbyBandaSinghBahadurintheSikh History. **CO3**-StudytheemergenceofDalKhalsaandMisls. **CO4**-AnalysethecharacterandcontributionofRanjitSingh. **CO5**-Understandthe political, social,economic,andreligious conditionsof Punjab.
SemesterV HistoryandCulture of Punjab: Colonial Period	**CO-1**-Developanunderstandingofthehistoryoftheregionandthe impactofthecolonialrule. **CO2**-UnderstandtheeffectsofBritishAdministration. **CO3**-DevelopmentofART,literatureandarchitectureinPunjab.
SemesterVI HistoryandCulture ofPunjab:Post IndependencePeriod	**CO-1**-KnowtherichhistoryandcultureofPunjab. **CO2**-KnowaboutthePostPartitiondevelopmentsinthePunjab. **CO3**-Rehabilitationprocessoftherefugees. **CO4**-EvolutionofPunjabiSubain1966.
Semester-I Economics:Micro Economics	**Theexpectedcourseoutcomes ofmicroeconomicsare:** **CO**1-Tounderstandthe fundamentalsofmicroeconomics. **CO**2-To getan introductionto supplyand demandand thebasic forcesthatdetermineequilibriumina market economy. **CO3**-To getintroducedtotheframeworkforlearningabout consumerbehaviourandanalysingconsumerdecisions. **CO**4-Tostudyaboutfirmsandtheirdecisions aboutoptimal

	production.
Semester-II Economics:Macro Economics	**CO1**-Toapplyeconomicreasoningtounderstandtheoperationofan economy. **CO2**-To interpret macroeconomic issues such as money, foreign exchange, inflation, unemployment, economic growth and foreign trade. **CO3**-Tounderstandtheroleoffiscalandmonetarypolicyinfighting recession and inflation.
Semester-III Economics:Public Financeand InternationalTrade	**CO1**-Togetunderstanding ofthestructureofthegovernment budget. **CO2**-Tounderstandtheobjectivesandtoolsoffiscalpolicy. **CO3**-Toelevate theapplicabilityof variousinternationaltrade theories.
Semester-IV Economics: Quantitative Techniques	**CO1**-TohaveanIntroductoryideaaboutstatisticalmethodsand toolsthat areessentialfortheempiricalandanalyticalstudyof economicsat the undergraduatelevel. **CO2**-Tohelp incarryingoutprojectstudies. **CO3**-Tohaveabetterunderstandingaboutthequantitativeaspects regardingthe researchand economicanalysis.
Semester-V Economics: Development Economics	**CO1**-Tounderstandthedynamicsofchangeintheeconomyfroma theoretical framework. **CO2**-Tostudythevariouseconomicgrowthmodels. **CO3**-Tounderstandandbeabletocomparethe developmentlevels amongdifferentcountries. **CO4**-Toexaminetheroleofland,labourandcapitalinthe developmentprocess.
Semester-VI Economics: IndianEconomy	**CO1**-To comprehend the basic characteristics of economic developmentandeconomicgrowth. **CO2**-Tounderstandtheindicesofeconomicdevelopment. **CO3**-Toanalysethedemographictrendsin India. **CO4**-Torealisethecausesandmeasuresofpoverty,unemployment, inflationetc. **CO5**-To studythevarioussocialandeconomicissuesofIndian economy.
Semester-I Geography: PhysicalGeographyI-Geomorphology	**CO1**-Todevelopanunderstandingofgeomorphologyandother conceptsofPhysicalGeography. **CO2**-TohaveknowledgeoftheinteriorandmovementsoftheEarth. **CO3**-To understand the process of erosion,deposition andresulting landforms. **CO4**-Toacquireknowledgeaboutslopeformsandprocesses.
Geography Cartography-I	**CO1**-Tointroducetheconceptofmapsandrelevanceofmapsin Geography. **CO2**-ToexplaintheelementsofMap(ScaleandOrientation)and

	stepsinMapmaking. **CO3**-Tointroducerelief representation.
Semester-II **PhysicalGeography II-Climatology &Oceanography**	**CO1**-Toknowtheinteractionbetweentheatmosphereand Earth's surface. **CO2**-Toacquaintthestudentswiththeelementsand attributesof climatologyand oceanography. **CO3**-Tounderstandthe importanceoftheatmosphericpressure and winds. **CO4**-To emphasizethesignificanceofoceanswithintheglobal environmentalsystem.
PaperVI **Cartography-II**	**CO1**-Tointroducetheconceptofmapsandrelevanceofmapsin Geography. **CO2**-ToexplaintheelementsofMap(Scale and Orientation)and steps inMap making. **CO3**-Tointroducereliefrepresentationand weathersymbolization on maps.
Semester-III **Geography of India**	**CO1**-AcquaintedwiththephysicalandculturallandscapeofIndia. **CO2**-Tostudy thedistributionofmajorcrops, industriesand transportlinksin India. **CO3**-Tounderstandtheintra-regionalvariationsinselectedaspects.
PaperVI **Cartography-III**	**CO1**-Toapprisethestudentswithsymbolizationofdifferenttypes Of geographical data and depiction of various spatial data. **CO2**-Toprovidetraining in application of various graphical methods ofdepictinggeographicdata. **CO3**-Totrainthestudents tointerpret thetopographicalsheetsatdifferently.
SemesterIV **Paper VIIGeography ofPunjab**	**CO1**-TounderstandtheregionalsettingofPunjabstateindetail throughphysicalandpoliticalmaps. **CO2**-Toexaminetheculturalpatternsoftheregions. **CO3**-Tostudy thedistributionofmajorcrops, industriesand transportlinksin the state. **CO4**-Tounderstandtheintra-regionalvariationsinselectaspects.
PaperVII **Cartography-IV**	**CO1**-Toapprisethestudentswithsymbolizationofdifferenttypes ofgeographicaldataanddepictionofvariousspatialdata. **CO2**-Toprovidetraining inapplicationofvariousgraphicalmethods of depictinggeographicdata. **CO3**-Totrainthestudents tointerpretthetopographicalsheetsat differentscales.
Semester-V **WorldRegional Geography-I**	**CO1**-Toprovideanunderstandingoftheconceptofworldregions withrespecttoland,people,polityandeconomy. **CO2**-To acquaint the student withthe physicalandhumanresource base and their interface with economic development problems and projects.

Paper X:Map Projections	**CO**-Toprovideananalyticalunderstandingoftheuseofcommon mapprojections.
Semester-VI WorldRegional Geography-II	**CO1**-Toprovideanunderstandingoftheconceptofworldregions withrespecttoland,people,polityandeconomy. **CO2**-To acquaint the student withthe physicalandhumanresource base and their interface with economic development problems and projects.
PaperXII:Field SurveyBasedReport	**CO1**-Toknowtheimportanceoffieldworkasoneofthe methodologiesofGeography. **CO2**-They willbefamiliarizedwithpre-fieldwork andpost-field worki.e.dataprocessingandanalysisandwritingoffieldreport.
SemesterI History: History of IndiaUPTO1200A.D.	**AttheendoftheSemesterthestudentwillbeableto:** **CO1**-Haveknowledgeabout the socio-culturalpattern of India. **CO2**Acquireknowledgeaboutthesourcesofhistory,primitive civilizationlikeHarappa,VedicAge,protestantmovementssuchas Jainism,Budhhism,thehistoryofMaurya,KusanasandSatvahans.
SemesterII History: History of India1200-1750A.D.	**CO1**-IdentifythemajorpoliticaldevelopmentsintheHistoryof Indiaduringtheperiodbetweenthe12thandthe17thcentury. **CO2** Explore the changes and continuities in the field of culture, especiallywithregardtoart,architecture,BhaktiMovementandSufi Movement. **CO3-**Know the development of trade and urban complexes during this period.
Semester-III History:Historyof India (1750- 1964 A.D.)	**CO1**-HaveanunderstandingofModernIndia. **CO2-**Get knowledge about the penetration, expansion and consolidationofBritishRuleinIndia. **CO3-**Know the awakening of Indians, cultural changes and Socio-ReligiousReformmovementsandthe Revolt of1857. **CO4-**Understand the British policies, National Movement, Independence and Partition, Constitution and Post-Partition developments.
Semester-IV History: History of Punjab, 1469- 1966 A.D.	**CO1**-InculcatetheknowledgeoftraditionalPunjabisociety. **CO2**-Understand the origin of Sikhism in Punjab andcontributions of the SikhGurustowards the developmentof SikhPanth. **CO3**-Know the role played by Banda Singh Bahadur in the Sikh History. **CO4**-Acquire knowledgeof the Sikh Misls, DalKhalsa, Gurmata andthecivilandmilitaryadministrationofRanjitSingh. **CO5**-Have understanding of the significant developments in the history of the Punjab region since the beginning of colonialrule in 1849to 1966. **CO6-** Have knowledge of the major changes taking place in the administrativeframeworkofthenew Punjabprovince,followedby

	significantpolitical,economic,socialandculturalchangesleadingto Partition. **CO7-**KnowaboutthepostPartitiondevelopmentsthatgoesuptothe creation of the Punjabispeakingstate.
Semester-V WorldHistory(1500-1870 A.D.)	**CO1**Haveknowledgeregardingthepoliticaltransformationsofthe Modern World that took place fromthe sixteenthcentury. **CO2**-Acquireknowledgeof thecauses andimpactofmajor revolutionsofthe world duringthe periodof study. **CO3**-KnowabouttthereformsandContinentalsystemofNapoleon Bonaparte. **CO4**-Understandthe majorpoliticalevents of19th centurysuch as Unificationof ItalyandUnificationof Germany.
Semester-VI History:World History(1871-1991 A.D.)	**CO1-**Haveknowledgeregarding thepoliticaltransformationsofthe modernworldthattookplacefrom1871. **CO2-** Understandthe causes andimpactof major revolutions of the world. **CO3-** Evaluate the genesis and consequences of two World Wars. **CO4-** Analyse the emergence of political leadership in China and Japan. **CO5-** Understand the emergence of NATO, Warsaw Pact,League of NationsandU.N androleof U.N inthe ContemporaryWorld.
Semester-I HomeScience:Family Resource Management,Hygiene & Health	**Onthecompletionofthecoursethestudentwillbeableto:** **CO1**-UnderstandthesignificanceandfunctionsofHomeScience. **CO2**-Develop awarenessabout management inafamily. **CO3**-Haveknowledgeaboutthemanagementofresources. **CO4**-Understandingofconceptsofincomeandexpenditure. **CO5**-Acquireknowledgeoftheprinciplesofart, designandtheir applicabilityin interiordecoration. **CO6**-Developawareness aboutthe causesandspread ofvarious diseases. **CO7**-Understandtheprinciplesandmethodsoffoodpreservation.
Semester-II Family Resource Management,Hygiene &Health	**CO1**-Haveknowledgeaboutthemanagementofresources. **CO2**-Understandingoftimeandmoneymanagement. **CO3**-Acquireknowledge about theconcepts ofincome and expenditure. **CO4**-Developawarenessaboutthehygieneandhealth. **CO5**-Understand the principle methods of art in flower arrangements. **CO6**-Haveknowledgeofdigestivesystem.
Semester-III Clothing &Textile (Theory)	**CO1**-Haveknowledgeaboutequipment&suppliesusedforclothing construction. **CO2**-Understandingofthecareandstorageofcotton,woolandsilk

	garments. **CO3-**Understandtoidentifydifferentfabricformationtechniques. **CO4-**Haveunderstandingoffabricselectionandcare. **CO5-**Acquireknowledgeabout thedifferentdyes,dyeingtechniques and printingtechniques. **CO6-**Toacquireprofessionalandentrepreneurialskillsforeconomic empowermentofanindividualinparticularandsociety ingeneral.
Semester-IV Clothing &Textile (Theory	**CO1-**Understand the principles of designing and clothing construction. **CO2-**Haveintroductiontofashion,fadandstyle. **CO3-**Acquireknowledgeaboutthebasicfabricformationmethods suchasweaving,knittingand nonwovenfabrics. **CO4-**DevelopawarenessabouttraditionaltextilesofIndia. **CO5**Understandtoidentifydifferentfabricformationtechniques. **CO6-**Haveunderstandingoffabricselectionandcare.
SemesterV Food,Nutritionand ChildDevelopment	**CO1-**Food,nutrientsandtheirfunctions. **CO2-**Understand theimportanceofbalanceddietand energy requirementsof body. **CO3-**Knowthesignsofpregnancy,care duringpregnancy,post- natal careandmethodsof familyplanning. **CO4-**Understand the functions, sourcesand requirements of differentnutrientsfor the growth of child. **CO5-**Tounderstandtheimportanceoffoodandnutrientstoenhance the qualityoflife.
SemesterVI Food,Nutritionand ChildDevelopment	**CO1-**Know thecausesofFoodspoilageandmethodsoffood preservation. **CO2-**Understandtheimportanceofbalanceddietandmealplanning. **CO3-**AcquireknowledgeofTherapeutic dietsandnormalDiet. **CO4-**Understandtheemotionaldevelopmentofthechild. **CO5-**Haveknowledgeof thestagesoflanguagedevelopmentand commonbehaviouralproblems. **CO6-**Tounderstandthe role ofinterdisciplinarysciencesin the developmentand well-beingofindividualsandfamilies.

Mathematics	**Thestudentwillbeableto:** **CO1**-Enabling students to develop a positive attitude towards mathematicsas aninterestingandvaluablesubjectof study. **CO2**-UnderstandMathematicalconceptsandconcernedstructuresto follow the patterns involved. **CO3**-Analyseaproblem,identifyanddefinethecomputing requirements,which may be appropriate solution. **CO4**-Enhancing students' overall development and to equip them with mathematical modelling abilities, problem solving skills, creative talent and power of communication necessary for various kindsofemployment. **CO5**-Pursue advanced studies and researchin pure mathematics. **CO6**-Formulateanddevelopmathematicalargumentsinalogical manner. **CO7**-Thinkinacriticalmanner.
Semester I **Plane Geometry**	**CO1**-EnhancetheknowledgeofStraightlines,parabolas,ellipse, Hyperbola and sphere. **CO2**-Identify different conics from general equation of degree two. **CO3**-Identify, describe, compare and classify different geometric figures such as circle, parabola, ellipse and hyperbola. **CO4**-Understandandapplygeometricpropertiesandrelationship.
Calculus I	**CO1**-GainKnowledgeoffundamentalconceptsofrealnumbers. **CO2**-Verifythe value of the limit of a function at a point using the definition of the limit. **CO3**-Introductiontosequenceandseries. **CO4**-Learn to check function is continuous understand the consequences of the intermediate value theorem.
Trigonometry And Matrices	**CO1**-UnderstandtheoryandapplicationsofDeMoivre'stheorem. **CO2**-Understandexponential,logarithmic,circularand hyperbolic functions of a complex variable. **CO3**-Understand theory and applications of summation of series including Gregory series. **CO4**-LearnbasicpropertiesofHermitianand skew-Hermitian matrices. **CO5**-Computerankofamatrixusingvariousmethods,Eigenvalues and Eigenvectors of a matrix. **CO6**-Understand theory and applications of Cayley-Hamilton theorem.
SemesterII **SolidGeometry**	**CO1**-Studentwillbeabletoidentifydifferentgeometricsolidsespecially cones ,cylinders and spheres. **CO2**-Deduce properties of and relationship between figures from given assumptions. **CO3**-Able to learn ellipsoid, hyperboloid and parabolic in standard form and reduction of second degree equation in three variables in standard form.

CalculusII	**CO1**-Understand differentiation and fundamental theorem in differentiation and various rules. **CO2**-Understand Geometrical representation and problem solving onMVT and Rolls theorem. **CO3**-Findingextremevaluesoffunction. **CO4**-IntroductiontoOrdinaryDifferentialEquation.
TheoryOfEquations	**CO1**-Understandvariouspropertiesofroots,relationbetween roots And coefficients for real polynomials. **CO2**-Understand theory and applications of transformation of Equations and Descartes 'rule of signs. **CO3**-Understand theory and applications of Newton'smethod of divisors ,Cardan's method of solving a cubic, Descarte's and Ferrari's method for solving a bi-quadratic.
AdvancedCalculus-I	**CO1**-Take derivatives of multivariable functions by using Appropriate rules. **CO2**-Usethechainrulebyapplyingnecessaryrules. **CO3**-Studentswillbe able to perform vector calculus operations by partial derivatives, and matrix partial derivatives.
Differential Equation	**CO1**-Solvefirstorderdifferentialequationsutilizingthestandard techniques for separable, exact, linear, homogeneous, or Bernoulli cases. **CO2**-Find the complete solution of a nonhomogeneous differential equationas a linear combinationof the complementaryfunctionand a particularsolution. **CO3**-Have a working knowledge of basic application problems describedbysecondorder linear differentialequationswithconstant coefficients.
Statics	Students will be able to learn about **CO1**- Basic concepts,composition and resolution of concurrent forces .**CO2**-.Equilibrium of the forces acting at a point,Parallel Forces **CO3**- Moments nd Couples,Equilibrium conditions for Coplanar Forces **CO4**- Types of Friction,laws of Frictions,Coefficient of friction
AdvancedCalculus-II	**CO1**-Knowaboutthedifferentkindofforcesactingonabodyatrest andtheirproperties. **CO2**-Learn about coplanar forces, parallel forces, moments, Varignon's theorem of moments, couples, resultant of two coplanar couples,and equilibriumof twocoplanarcouples. **CO3**-LearnaboutCentreofGravityofdifferentbodies. **CO4**-Haveknowledgeaboutdifferentiationofvectors,Gradient, divergenceandcurloperators,lineintegrals,Vectoridentity,Vector integration,GaussTheorem,Green Theorem,StokesTheorem and problemsbasedon them

Differential equation.	**CO1**-Tracegraphsofdifferentfunctionsandhowtofindtheir integrals. **CO2**-Relate different Trigonometric integrals using reduction formulae. **CO3**-Solve differential equations with constant and variable coefficients. **CO4**-Learntofindmaximaandminima,criticalpointsandinflexion pointsof functionsandtodeterminethe concavityof curves.
Dynamics	**CO1**-Understandtheconceptofspeed,velocity,accelerationanduse theseinsolvingproblems. **CO2**-Learnabout Newton's Lawsof Motionand its applications. **CO3**-Learnaboutwork,power andenergyandlaws relatedtokinetic and potentialenergy. **CO4**-Knowaboutcurvilinearmotionofparticleinaplaneand projectiles.
Semester-V **Analysis–I**	**CO1**-Determinethebasictopologicalpropertiesofsubsetsofthereal numbers **CO2**-Defineconnectedness andcompactness,andprove a selection of related theorems. **CO3**-Definethelimitofasequence,seriesandtheCauchycriterion **CO4**-Testthe convergence ofseries usingRatio,Rootand comparisontests. **CO4**-Definecontinuityofafunctionand uniformcontinuityofa function **CO5**-Proveatheoremaboutcontinuousfunctions **CO6**-Determine the continuityof a functionat a point andonaset. **CO7**-Differentiatetheconceptofcontinuityanduniformcontinuity **CO8**- Define the derivativeof a function.
ModernAlgebra	**CO1**-DefineGroupandSubgroups,NormalSubgroups,Quotient GroupsandPermutationGroupwithexamples. **CO2**-ProveCayley'stheorem,Sylow'stheorem. **CO3**-Define Ring, Field, Extension Field, Euclidean Rings, PolynomialRingsandVectorSpace withexamples.
ProbabilityTheory	**CO1**-DefineProbability setfunction,Expectationofarandom variable. **CO2**-DescribeconditionalDistributionsandexpectations. Studydifferentmeasuresofcentraltendency,dispersion, moments,skewnessandkurtosisandprobabilityalong withits varioustheoremsand applications. **CO3**-Learnaboutmathematicalexpectationsandmoments,moment generatingfunctionsandtheirproperties. **CO4**-Study differentprobability distributions suchasBinomial, Poisson's, Exponential,Gamma,Beta,andNormal. **CO5**-LearnaboutLeast-Squareprinciple,Linearand Multiple Regression,Co-relationCoefficientsand ratio

Semester-VI **Analysis–II**	**CO1-**Determine the basic topological properties of subsets of the real numbers. **CO2-**Define connectedness andcompactness,andprove a selectionof related theorems. **CO3-**Define the limit of a sequence,series andthe Cauchycriterion **CO4-**Define continuity of a function and uniform continuity of a function **CO5-**Proveatheoremaboutcontinuousfunctions. **CO6-**Determine the continuity of a functionat a point andonaset. **CO7**-Differentiatetheconceptofcontinuityanduniformcontinuity **CO8**- Define the derivativeof a function. **CO9-**Proveatheoremaboutthederivativesoffunctions. **CO10**-Analyse how abstract ideas and rigorous methods in mathematical analysis can be applied to important practical problems.
Linear Algebra	**CO1**-Introductiontovectorspace andsubspace. **CO2-**Usecomputationaltechniquesandalgebraicskillsessentialfor the study of systems of Linear equations, matrix algebra, vector spaces, eigenvalues and eigenvectors, Orthogonality and Diagonalization.(Computational and Algebraic Skills).
NumericalAnalysis	**CO1**-Apply appropriate numerical methods tosolve the problem With most accuracy. **CO2-**Using appropriate numerical methods determine approximate solution of ODE and systemof linear equation. **CO3-**Compare different methods in numericalanalysis w.r.t accuracyand efficiency of solution.
Semester-I **Music (Instrumental)** **(TheoryandPractical)**	**CO1**-Studythedefinitionsandimportanceofvariousmusicalterms. **CO2**- Understand the differentialities of present Raga System of North IndianMusic. **CO3**-StudyofBhatkhandeNotationSystem. **CO4-S**tudythedifferent types of Gats(RazakhaniandMaseetkhani) **CO5-**Learnaboutthe basics of IndianMusic throughstudyofSitar, Harmoniumand Tabla. **CO6**- Study of Ragas and Talas, which includes Theoritical and Practicalportion.

Semester-II Music(Instrumental) (Theory&Practical)	**CO1**-.StudyvariousBolesofMizrab. **CO2**-.KnowledgeofmusicaltermsrelatedtoTaal. **CO3**-AbilitytodemonstratedifferentAlankarasofShudh &Vikrit swaras on Instruments. **CO4**-AbilitytoplayShudhswarasonHarmonium. **CO5**-AbilitytoplayTeenTalonTabla. **CO6**-DemonstrateTalasbyhandinEkgunandDugunLayakaries **CO7**-PlayNationalAnthemonInstruments.
Semester-III Music(Instrumental) (Theory&Practical)	**CO1**-Understandthedefinitions andexplanations ofdifferent musicalterms. **CO2**-Study theGreatmastersofMusicandtheircontributionto Indianclassical Music. **CO3**-Learndeeplyaboutthedescriptionand Notationofdifferent Ragas on Sitar.
Semester-IV Music(Instrumental) (Theory&Practical)	**CO1**-LearntoreciteTaalswithhandsandonTablatounderstandthe (Rythems) Taals. **CO2**-UseofdifferenttechniqueslikeMeend,Kanoninstruments. **CO3**-Studyof Gharanas. **CO4**-UseofEkgunandDugunLayakaries.
Semester-V Music(Instrumental) (Theory&Practical)	**CO1**-HaveknowledgeoffolkinstrumentsofPunjab. **CO2**-Learn about different typesofFolkinstrumentsalso.Through the studyofmusicalinstruments studentsare capable toearnintheir life. **CO3**-DifferentVadanShailliesofinstruments. **CO4**- Knowledge of Historical development of Indian Musical Scale. **CO5**-StudythevaritiesofTan/Toda. **CO6**- Historical development of Indian Music from Pre-Historic periodto 4th century. **CO7**-KnowledgeofGreatIndianMusiciansandtheir contributions.
Semester-VI Music(Instrumental) (Theory&Practical)	**CO1**-ComparativestudyofUttariandDakshaniSangeetPaddhati. **CO2**-UnderstandtheimportanceofLayaandTaalinMusic. **CO3**-Knowledgeaboutclassificationofinstruments. **CO4**-DetailstudyofscopeofMusic. **CO5**-Besides classical Music students also learn about Folk instruments and tries to perform Folk instrument like Dhol and Dholkialso. **CO6**-Abilitytoplaydifferenttechniquesoninstruments. **CO7**-LearnTuningofInstruments.

Semester-I **Physical Education** **(TheoryandPractical)**	**After completionofthiscourse, students will beableto: CO1-** HaveknowledgeofPhysical educationand itsneed and significanceinmodernsociety. **CO2-**Understandthe aims and objectivesof physical education. **CO3-**Acquireknowledgeof sportsandhistoryof physicaleducation. **CO4-**Knowledge about the historyof Olympicgames, Asian & CommonWealthGames,SportsSchemes,NationalInstitutionsof sports andNational andInternationalGoverningBodies of games. **CO5-**Thestudentswillhavehandsofexperiencetoperformstarting, finishing, relayrace,longjump, high-jump, shot-put,discuss throw, javelinthrow **CO6-**Theywillbehavetheconceptsoftrackandfieldevents. **CO7-**Know the effects of psychological factors on sports performance. **CO8-**Gaintheexperiencetoperformvariousraces.
Semester-II **Physical Education** **(TheoryandPractical)**	**CO1-**HumanBodySystem(Cell,Skeletalsystem,Muscular System) and warming up and Cooling down and health education, PersonalHygiene,physicalfitnessandwellness,healthandfirst-aid-management,biologicalbasisof Physical Education. **CO2-**AcquireknowledgeofbasicsofKho-Kho. **CO3-**Knowledgeofhistoryandrulesofathletics. **CO4-**GaintheexperiencetoperformVolleyballandKabaddi.
Semester-III **Physical Education** **(TheoryandPractical)**	**CO**1-Basicsofpsychology,learning,learningcurve. **CO2-** Acquire understanding of group psychology in sports. CO3-Understand Psychological and sociological concepts and apply to physicalactivity. **CO3-** Understanding of motivation, instinct, and emotion, stress, personalityandsociologicalaspectsandSports Performance. **CO4-**Knowtheimportanceofmassmediaforsports. **CO5-**Knowledgeofhistoryandrulesofathletics. **CO6-**Gaintheexperiencetoperformhighjumpandvariousraces.
Semester-IV **Physical Education** **(TheoryandPractical)**	**CO1-**Knowtherespiratorysystemanditsfunctions. **CO2-**Knowaboutanatomyandphysiologyofdigestivesystem, circulatorysystem and cardiac cycle. **CO3-**Knowbloodgroupsandtheirimportance. **CO4-**Understandingofvariouscommunicablediseasesandmethods of prevention. **CO5-**GaintheexperiencetoplayBasketballandFootball.

Semester-V Physical Education (TheoryandPractical)	**CO1**-UnderstandmeaningandimportanceofPlay. **CO2**-Know significance of recreation in the modernsociety. **CO3**-Awarenessregarding physicaleducation anditsimportanceinlife. **CO4**- Know importance of competitions,educativevalueofcamps. **CO5**- Awareness regarding physical activities and their effects on physicalparameters. **CO6**-AcquirebasicknowledgeofCricket. **CO7**-Gaintheexperience toperformrelayrace,longjump,high jump,shot-put,discussthrow, javelinthrow.
Semester-VI Physical Education (TheoryandPractical)	**CO1**-Understand the functioning of nervous, Excretory and Endocrinesystems. **CO2**- Knowaboutanatomyand physiologyofdigestivesystem, circulatorysystem and cardiac cycle. **CO3**-Awarenessregardingphysicalactivitiesandtheir effectson physicalparameters. **CO4**-KnowledgeofcareeraspectsinPhysicalEducationand professionalethics. **CO5**-Acquireknowledgeofbasicsof TableTennis. **CO6**-Gain the experience toperform Hockey or Badminton. **CO7**-Knowledgeof therules andregulationsofthe chosen game.
Semester-I PoliceAdministration	**CO1**-AcquireknowledgeabouttheIndianPoliceAdministration. **CO2**-KnowledgeregardingreformsinPoliceAdministration. **CO3**- Familiarizedwithpower functions of Policeatvariouslevels. **CO4**-Acquaintedwiththe politicsandprocessesinIndiaatboththe Centre and state levels.
Semester-II PoliceAdministration	**CO1**-HavebasicknowledgeabouttheConstitutionofIndia. **CO2**-Understandthe FundamentalRightsandFundamentalDuties of Indiancitizens. **CO3**- DescribetheDirectivePrinciplesofStatePolicyand their significance. **CO4**-Understand themechanismavailable forensuringpolice accountability.
Semester-III PoliceAdministration	**CO1**-Acquire knowledge about the various aspects of Police Administration. **CO2**-Knowledge regarding Police Personnel Administration' **CO3**- Have understanding of job analysis, job description, pay policy, compensation and fringe benefits. **CO4**-Acquainted with the recruitment, training and promotion in Police Service in India. **CO5**-Knowledge about the performance appraisal, police ethics, corruption in police, codes of conduct and discipline.
Semester-IV PoliceAdministration	**CO1**-Have knowledge about the basics of Law and Order Administration in India **CO2**-Understand the meaning nature, scope and significance of Law and Order Administration in India **CO3**- Understand the role of Law and order Adminidtration in crowd management, communal riots, agrarian and industrial

	conflicts. **CO4-**.Acquire knowledge about the challenges before Law and Order Administration. **CO5-**Know the concept of National Security along with the challenges to it.
SemesterVI PoliceAdministration	**CO1-**Familiarized with the concept, nature and significance of organizational behavior**.** **CO2-**Acquire knowledge about the foudations and models of orgisational behavior. **CO3-**Understand the concepts such as motivation, morale, leadership, communication, decision making transactional analysis. **CO4-** Have knowledge regarding concept and rationale of organizational change and development.
Semester-VI PoliceAdministration	**CO1-**Acquire knowledge about the Indian Police Act of 1861. **CO2**-Knowledge regarding the main provisions of Indian Penal Code 1860 **CO3**- Have understanding of the terms covered under Section 2 of IPC. **CO4**- Know the powers of police officer under IPC 1860.
Semester-I Political Science: PoliticalTheory1	**CO1**-Thestudentwillbeintroducedtosomeofthebasicaspects, conceptsandthemesinthedisciplineofPoliticalScience. **CO2**Theywillacquireknowledgeofsomeofthephilosophical theoriesof modernpolitics. **CO3**-Haveunderstandingoflegalprinciplesbywhich political issuesare resolved.
Semester-II PoliticalScience: Paper-PoliticalTheory	**CO1**-Todeepenandexpandtheknowledgeofthestudentin Political Science. **CO2**-Itintroduceshigherlevelconceptsandthemesinpolitical

2	theory. **CO3-**Itwillprovidestudentswiththetoolstoengagewithsomekey politicalissues of our times.
Semester-III **Political Science: Indian Government and Politics**	**CO1**-Thepaperprovidesstudentswithabasicknowledgeofthe fundamentalelementsandinstitutionsofgovernment. **CO2**-TheStudentsbeacquaintedwith thepoliticsandprocesses in Indiaatboththecentre and state levels.
Semester-IV **Political Science: Indian Politics**	**CO1**-Toenrichthestudent'sunderstandingoftheworkingofthe Indianpoliticalsystem with reference topoliticalparties,theparty system, electionsandvotingbehaviour. **CO2**-Toexamineindetail certainkeyissuesanddebatesin contemporaryIndia.
Semester-V **Political Science: Comparative Politics(U.K.&U.S.A.)**	**CO1**-Haveanintroductiontothefieldofcomparativepolitics. **CO2**-Acquire a broad overview of the field of comparative politics and examinessome key approaches. **CO2**-Understand and analyze the origins and working of two politicalsystems, the UK and the USA. **CO3**-Become familiar with the working of these two political systemsandunderstandhowtheconceptsofcomparativepoliticscan be used to understand realworldpolitics.
Semester-VI **Political Science: internationalpolitics: Theoryand Practice**	**CO1**-Haveanoverviewofthebroadtheoriesandconceptsusedto understandinternationalpolitics. **CO2**-Understandkeyissuesincontemporaryglobalhistory froman internationalpoliticsprospective.
Semester-I **Sociology: Fundamentals of Sociology**	**Attheendofthesemester,studentswillbeabletounderstand:** **CO1**.FundamentalsandbasicconceptsofSociology. **CO2**. Knowledgeofvariousterms,processesandformulate sociologicalviewpoints. **CO3**.Easycomprehensionofthediscipline.
Semester-II **Sociology: SocialStratification**	**CO1-**Conceptofsocialstratification. **CO2-**Analyzethetheoriesandelementsofsocialstratification. **CO3-**IndicatorsofSocialMobility.
Semester-III **Sociology: SocialStructure**	**CO1-**Conceptandelementsofsocialstructure. **CO2-**Typesandfactors ofSocialchange. **CO3-**Differentprocessesofsocial change.
Semester-IV **Sociology: SocialInstitutions**	**CO1-**ConceptofSocialInstitutions. **CO2-**VariousinstitutionsatSocietyinobjectiveandintrinsicway. **CO3-**Features ofSocialInstitutionslikemarriage,familyand kinship.

	CO4-Knowledgeofpolitical,culturalandeconomicinstitutions.
Semester-V Sociology: SocietyinIndia	**CO1**-AnalyzethediversifiedIndiansocietybyfocusingonsocial, politicaland economicstructureofvariousparts ofthe society i.e. tribal,rural and urban. **CO2**-Problemsandchallengesofdisadvantagessectionsofthe Indiansociety.
Semester-VI Sociology: Disorganisationand Emergingproblems	**CO1**-Conceptandlevelsofsocialdisorganisation. **CO2**-Analyzethe extentof variouspersonal,familialand societal problems.
ComputerApplication Fundamentalof Information Technology(CA01	**CO1**-Studentscanlearnbasicfunctionalityofinputoutputdevices. **CO2**-Studentscanknowdifferencebetweencommandbased interface and graphicaluser interface. **CO3**-Ithelpsthestudentstoknowaboutvariousmemorieslike RAM and ROM. **CO4**-Ithelpsthestudentstoknowaboutthevariousapplicationsof computer.
Application Software (CA02	**CO1**-StudentscanlearnvariousfeaturesofMS-Wordlikemail merge, macro, word formatting,margins,indentationandauto correct. **CO2**-Studentscanmake presentationsusingMS-PowerPoint.They canalsolearntoapplyanimationsto the slide. **CO3**-StudentscanlearnvariousfeaturesofMS-EXCELlikecreating charts,usingformulas,autosum,macro. **CO4**-StudentscanlearntocreatedatabaseusingMS-ACCES.
Practicalbasedon (CA01,(CA02)– PCA01	**CO1**-StudentscangetpracticalknowledgeofMSword,MSexcel, MSPowerPoint,MS access.Theycanusetheseskill invariousday to day operations.
Cprogramming Language(CA03)	**CO**1-Illustratetheflowchartanddesignanalgorithmforgiven problemandtodevelopCprograms. **CO2**-Read,compileandtrace theexecutionof programswritten in C language. **CO3**-Develop program usingoperators,arraysandfunctions. **CO4**-Exerciseuser defined datatypes includingstructures and unionsto solveproblems. **CO5**-DevelopfileconceptstoshowinputandoutputoffilesinC program.
Operatingsystem Concepts(CA04)	**CO1**-AbilitytoDescribeandexplainthefundamentalcomponents ofacomputer operatingsystem. **CO2**-AbilitytoDefine, restate,discuss, andexplainthe policiesfor scheduling, deadlocks, memory management, synchronization,

	systemcalls,andfilesystems. **CO3**-AbilitytoDesignandconstruct the followingOScomponents: System calls, Schedulers, Memory management systems, Virtual Memory and Paging system.
Practical based on CA03PCA02	**CO1**-Studentswillabletolearnarray,functions,structuresandfile handling.
ProgramminginC++ CA05	**CO1**-Describetheproceduralandobjectorientedparadigmwith conceptsofstreams,classes,functions,dataandobjects. **CO2**-Describe the concept of function overloading, operator overloading,virtualfunctionsandpolymorphism. **CO3**-Classify inheritancewiththeunderstandingofearly and late binding,usageofexceptionhandling,genericprogramming.
WebDesigningCA06	**CO1**-Explainthehistoryoftheinternetandrelatedinternet concepts thatarevitalinunderstandingwebdevelopment. **CO2**-Discussthe insightsof internet programmingandimplement completeapplicationover the web. **CO3**-Demonstrate the important HTML tags for designingstatic pagesandseparatedesignfromcontentusing CascadingStylesheet. **CO4**-Utilizethe concepts.
Practicalbasedon CA05andCA06 PCA03	**CO1**-Studentswillgethand-heldexperiencetoimplementvarious ObjectOrientedConceptsusingC++. **CO2**-StudentswilllearntoimplementwebsitesinHTML. **CO3**-Tostylethewebsitesstudentswilllearn CSS. **CO4**-Tomakethewebsitesinteractive studentswilllearnjavascript programming.
DataStructureCA07	**CO1**-UnderstandtheconceptofDynamicmemorymanagement, datatypes,algorithms,BigOnotation. **CO2**-Understand basicdatastructuressuch asarrays, linkedlists, stacks and queues. **CO3**-Solveprobleminvolvinggraphs,treesApplyAlgorithmfor solvingproblemslikesorting,searching, insertionanddeletion.
JavaProgramming CA08	**CO1**-Knowledge of the structure and model of the Java programminglanguage. **CO2**-UsetheJavaprogramminglanguagefor variousprogramming technologies. **CO3**-DevelopsoftwareintheJavaprogramminglanguage.
Practical based on CA07,CA08PCA04	**CO1**-StudentswilllearntoimplementvariousdatastructureinC++. **CO2**-StudentswillimplementvariousOOPbasedconceptslike class, inheritance,interfaces in Java. **CO3**-StudentswilllearntoimplementGUI basedapplicationsusing Java Applets.
Programmingwith VB.NetCA09	**CO1**-FamiliarwithVisualStudio.NETIDEandtheirdifferent component.

	CO2-Workwithwindowforms,eventsanddifferentcontrolsof toolbox.
Database Management using Oracle CA10	**CO1**-Explainthefeaturesofdatabasemanagementsystemsand Relationaldatabase. **CO2**-Create and manipulate Oracle database using SQL Queries. **CO3**-Create and populate a RDBMSfor a reallife application,with constraintsand keys, usingSQL. **CO4**-Retrieve any type of information from a data base by formulatingSQL queries. **CO5**-DifferentiateSQLandPL/SQ.
Practical Based on CA09,CA10PCA05	**CO1**-UseControlstocreateUserInterfacewithVB.Net. **CO2**-Implement Array, Strings, Procedures, Functions, loops and events in VB.net Programming. **CO3**-DDL Commands:Create,Rename, Alter,deleteTables,views. **CO4**-DML Commands: All variations of Select, Conditionalretrieval of rows, Working with Null Values, Matching a pattern from a table. **CO5**-Functions:Character,DateandGroupFunctions. **CO6**-COMMITandROLLBACK,GrantandRevokeCommand.
ComputerNetworks CA11	**CO1**-DescribethefunctionsofeachlayerinOSIandTCP/IPmodel. **CO2**-Explainthetypesoftransmissionmediawithrealtime applications. **CO3**-Describethefunctionsofdata linklayer andexplainthe protocols. **CO4**-Classifytheroutingalgorithmsandcongestionalgorithms. **CO5**-ExplainthefunctionsofApplicationlayerandProtocols.
WorkingwithLinux CA12	**CO1**-IdentifythebasicLinuxgeneralpurposecommands. **CO2**-Applyandchangetheownershipandfileordirectory permissionsusingadvance Linuxcommands. **CO3**-Usethevieditorwithdifferentmodes. **CO4**-ImplementshellProgramming. **CO5**-ApplySystemadministrativecommands.
Practicalbasedon CA12 PCA06	**CO1**-Manageprocessesusingcommandsps,nice,kill,topetc **CO2**-Managefilesanddirectoriesusingls,mkdir,rm,etc. **CO3**-Createandconfigureuser account usingcommandsuser add, user mod,user del etc. **CO4**-Useofdiskmanagementcommandsdf,du,disketc. **CO5**-Writeshellprogramming. **CO6**-UseofVieditor.

Semester-I **Fashion Designing: Fundamentalsof Clothing (Theory)** **Basic Construction Techniquesand Sketching (Practical)**	**CO1**-Understanddesignfundamental,elements&principlesof design. **CO2**-Knowsketchfigureanddrawing. **CO3**-StudentswilllearnFashionDesignconceptsandcolour theories. **CO4**-Toidentifyand discussconceptsrelatedto the historical backgroundof fashion. **CO5**-Toassessandapplyvarioustechniquesrelatedtodraftingand draping.
Semester-II **Fashion Designing: FabricStudy and DesignConcept (Theory)** **Basic Construction Techniquesand Sketching (Practical)**	**CO1-**Studentswillable tounderstanddesignfundamental,elements &principlesofdesign. **CO2**-Studentswillabletosketchfigureanddrawing. **CO3**-StudentswilllearnFashionDesignconceptsandcolour theories. **CO4**-To assess, purposeandapplyvarioustechniquesrelatedto drafting,draping. **CO5**-Studentswilllearnhowtoselect themeandtodesigntheme basedcollectionon any typeof them.
Semester-III **Fashion Designing: TraditionalTextilesof India(Theory)** **GarmentDesigning and (Practical)**	**CO1**-Thestudentsareabletohaveknowledgeofthedifferenttypes ofTraditionalIndianTextiles. **CO2-**Learn artofhistoricalcostumesof menand womenduring differenthistoricalperiods. **CO3**-Studentswillabletodifferentiate&learntypesofcoloured woven & printedtextilesof India. **CO4**-Tobeautifygarmentswithembroidery,paintingandother decorativematerial.
Semester-IV **Fashion Designing: History of Indian and World Costumes (Theory)** **Pattern Making And Construction Techniques (Practical)**	**CO1**-Studentwilllearnaboutconceptsrelatedtofashionand textiles. **CO2**- This course will impart knowledge about decorative way of constructingfabrics **CO3**-The students willgainknowledge aboutthe traditionaltextilesof India. **CO4**- Students will be able to apply traditionalfabrics of different states of India with emphasis on texture, design and colour to any designof theirchoice. **CO5**-To gain knowledge of– Headgears, footwear, handbags,belts, gloves,earrings,necklaces and bangles use globally and hence help in deigningaccordingtothe world‘sculture.

Semester-V FashionDesigningand Merchandising (Theory) Fashion Designing and Advance Construction Techniques(Practical)	**CO1**-Definevariousmarketingaspectsofhis/herdesignerproducts. **CO2**-Havepracticalknowledgeoffashionmarket,environment, planning,research,concept of exhibition and fashionshoe. **CO3**-The students willbe able to learn the conceptof retailing. **CO4**-Learnskillsofmarker plan,patternmaking& drawingusing computers. **CO5**-Studentswilllearnhowtoselect themeandtodesigntheme basedcollectionon any typeof them.
Semester-VI FashionDesigning: IndustryAnd Entrepreneurship Development(Theory) DrapingandAdvance Construction Techniques(Practical)	**CO1**-Thestudentswillbeabletolearntheconceptofretailing. CO2-Understandtheknowledgeofdifferentsectorsofgarment industryincludingsampling,designing,production&marketing. **CO3**-Knowledgeoftrendprediction,colour&salesforecasting. **CO4**-Createaclothingline. **CO5**-Assess,purposeandapplyvarioustechniquesrelatedto drafting,draping. **CO6**-Conceptofdrapingandstitchingwillbeutilizedinmakingof garmentsforclients.

	B.Sc.(BachelorofScience)
NameofProgramme	**ProgrammeOutcomes**
B.Sc	AttheendoftheProgrammethestudentswillbeableto: **PO1**- Have basic knowledge ofbiologicalsciencei.e.animals&plants. **PO2**-Pursue higher studies and research in pure and applied science. **PO3**-Develop**a**bilitytothinkinacriticalmanner. **PO4**-Develop scientific aptitude among the students to makethem open- minded, critical and curious in order to dealwith all aspects related to life. **PO5**- Understand the basicconcepts, fundamental principles, and the scientific theories related to variousscientific phenomenaandtheirrelevance in the day-to-daylife. **PO6**-Join as scientist and can even look for professional job orientedcourses. **PO7**-Have opportunities for serving in Indian Army, Indian Navy, IndianAirForce as officers. **PO8**-Serveinindustriesormayoptforestablishingtheirown industrialunit. **PO9**-TeachinSchools/Colleges. **PO10**-Havethe optiontojoinIndianCivilServicesasIAS,IFS etc.
NameofCourse	**CourseOutcomes**
Zoology	Thestudentsbecome awareof: **CO1**-Classificationand generalorganizationof non-chordates. **CO2**-Habitat,habits,morphologyand economicimportanceof variousnon-chordates. **CO3**-Principles and applications of various types of microscopes. **CO4**-Cellandcellorganelles. **CO5**-ElementaryideaofcelltransformationinCancer. **CO6**-Elementaryideaofcellularbasis ofimmunity. **CO7**-Practicalawarenessoftheabovementioned.
CellBiology	**CO1**-Tounderstandthestructureandfunctionofdifferentcell organelles. **CO2**-ToUnderstandtheprinciplesandapplicationsofdifferent types of microscopes. **CO3**-Tounderstandthedifferentmethodsoftransportation acrossthecellmembraneandtheapplicationofthesemethodsin variousbodyprocesses. **CO4**-Toknowthebasicconceptofthedevelopmentofcancer. **CO5**-Tounderstandthebasicsofcellularimmunity.

	CO6-Togettheskillofusingandmaintainingthelaboratory apparatusandinstruments. **CO7**-Togettheskillofpreparationandmountingtheslides.To getthe Skillofmaintainingthe recordoflaboratorywork.
BiodiversityI(Non-Chordates)	**CO1**-Togetawareoftheclassificationand structure ofthe organizationoftherepresentativeorganismsbelongingtoits Phylum – Protozoa. Porifera,Cnidaria,Platyhelminthes, Aschelminths,Annelida. **CO2**-To get the knowledge of classification andecological feature of¬ the organismbelongingtoabove Phyla ofNon-chordates and toknowitsroleinthe ecosystem. **CO3**-To getaware ofthe reasons,damage causedandcontrol measures against Platyhelminthes,Aschelminths.
Biodiversity-II(Non-chordates)	**CO1**-Thiscoursewillmakethestudentsunderstandthe structural organization, Classification, and features through a detailed study of the representative Organisms belonging to the Phylum-Arthropoda, Mollusca, Echinodermata, Hemichordata. **CO2**-Enabling the students to understand the evolutionaryrelationship through the study of affinities of the Hemichordate(Balanoglossus). **CO3**-To get awareof the classification and ecological features of the organismsbelongingto the above-saidPhyla. **CO4**-Toget familiar withthe Organismthroughspecimenslides inthelaboratoryandalso togetattentiontowardthelocal fauna.
Ecology	**CO1**-This course makes the student understand-Our environment,Scopeofecology,Conceptofenergy,Effectof temperature, light,and soilon the organism.. **CO2**-Students get knowledge aboutthevariousmajorecosystem of the world. Get the knowledge of the biochemical cycle i.e. how the variouschemicalsare cycledinthe ecosystem. **CO3**-Students come to know how the organisms are adaptedto the differentenvironments. **CO4**-They get the knowledge of relationships amongst the organisms. **CO5**-Students get aware of the Renewable and Non-renewable natural resources, their explanation, conservation, and environmentalpollution. **CO6**-They get the knowledgeof the maintenance of the environmentthroughthe study of ecologicalsuccession. **CO7**- They also get aware of the importanceof the population of everyorganism in their relative environment in the view of ecosystemstability.
B.Sc. IIBiodiversityI& II(chordates)	**CO1**-Studentsgetanunderstandingofthestructuraland functionalaspectsofdifferentanimalsystemsthroughthe detailedstudy of therepresentativeorganismof the Phylum-Protochordates (Urochordata),Cephalochordate,Class-Pisces, Amphibia,Reptile,Aves,Mammalia. **CO2**-Getawareoftheevolutionaryrelationship throughthe study of¬ affinitiesof Cyclostome.

	CO3-Gettheknowledgeoftheclassificationoftheorganisms andtheir¬ecologicalfeatures. **CO4**-Getawareoftheconceptofparentalcare,migration,flight adaptationinbirds,and Dentitionin Mammals. **CO5**-GetfamiliarwithdifferentChordatesandlocalfaunaof chordates.
EvolutionI&II	**CO1**-StudentsgetKnowledgeoftheoriginoflifeonearth. **CO2**-Getawareoftheconcept,evidence,andtheoriesof organicevolution. **CO3**-Understandtheprocessofmicro,macro,andmega evolutionand getthe knowledgeofspeciation. **CO4**-Cometoknowaboutfossilizationandthenatureoffossils. **CO5**-Gettheknowledgeoftheevolutionofman.
BiochemistryI&II	**CO1**-Studentsgetthe knowledge of the structure andfunction of various biomolecules i.e., carbohydrates, proteins, lipids, and nucleicacids. **CO2**-Get familiar with Enzymes, their mechanism of action, Coenzymes, Cofactor, Isozymes, Kinetics of enzymes, Catalytic reaction,andregulationof enzymeworking. **CO3**-Cometoknowaboutthevariouscarbohydrates,lipids,and proteinsmetabolismgoingoninthebody,theirroleinthebody, andinter-relationshipbetweenthedifferent metabolicpathways. **CO4**-Getawareofthemalfunctioningofcarbohydrates andlipid metabolismindiabeticpatients
PhysiologyI&II	**CO1**-Students get aware ofthephysiologicalprocessesgoing on inthebodylikedigestion,Circulation,Respiration,Excretion, andworkingoftherelatedorgans. **CO2**-Gettheknowledge oftheworking ofmuscles andneurons.Get an understanding of the role of various hormones and the structure andfunctionofendocrineglands. **CO3**-Get aware of the structure of different bones of the body. Students get able to distinguish the bones of organismsof variousclasses of chordates. **CO4**-Get the knowledge of recordingbloodpressure,estimation of haemoglobin, the enzymatic activity of salivary enzymes in humansaliva. **CO5**- Learn to maintain the record of thelaboratorywork. Learn about microscopicstudies.
B.Sc.IIIDevelopmental Biology	**CO1**-Makes the student understand gamete formation, fertilizationprocessanddevelopmentuptothe formationof threegermlayersthroughtheprocessofcleavage, blastulation, gastrulation. **CO2**-Studentsget awareof the phenomenonof the formationof amulticellularbodyfromasinglecell.i.e., Zygoteand concept ofinductionincellsforthefixationofthefateofothercells. **CO3**-Getaware of the formationandroleofthefoetal membraneand placenta.

	CO4-Become aware of changes thatconverttheyoungone toan adult. The knowledge of laws and principles of heredity would make students applythese principles intheir livestoimprovethe humanrace.
Genetics	**CO1**-The knowledge of mutation and chemical mutagens can contribute a lotinimprovingthe healthofthe humanpopulation. Studentsget aware of many hereditarydiseases. **CO2**-The study of DNA recombinant technology inculcates interest in the field of research. Economic Entomology and Pest Management.
Economic Entomology andpestManagement-I	Thiscoursefallsintheappliedfieldofzoology. **CO1**-Students get the knowledge of the features of insects that contributetothe damage of crops andotheruseful plants. **CO2**-Getanunderstandingofthelifehistoryofinsects.Get aware of the development patterns, classification, habitat and e type of damage caused by a pest of Sugarcane, Cotton, Paddy, Wheat, Vegetables, Stored grain, **CO3**-Insects of medical and veterinary importance,haemoglobin, the enzymatic activity of salivary enzymes in human saliva. Learn to maintain the record of the laboratory work. Learnaboutmicroscopicstudies.
EconomicEntomology andpestManagement–II	**CO1**-Inthisapplied field ofzoology,studentsgettheknowledge of Sericulture, Apiculture, and Lac culture which makes the student conscious of the fact that this knowledgecanhelpthem to start theirsubsidiaryoccupation. **CO2**-Studentsget the knowledgeofthe variousrecent method of pest control which contributetothe improvementof our environment by reducing environmental pollution and risk causedbythe excessiveuseof chemicalstocontrolinsect pests. **CO3**-Theknowledgeof the lifehistoryof pests andinsects will enable the researchersto cometoknowaboutthemost susceptiblestageofthelifehistoryonwhich theminimumdose ofchemicalwouldbecomeeffectiveto controlthepestand it willminimizesthe use of the chemicalspray. **CO4**-Students become aware of the harmfuleffect of chemicals that are used to control the pest population andknowledgewould contribute a lot to making the people healthy and the environmentclean.

PlantDiversity-I	**CO1**- Tomake studentsawareabout thediversity invariouslife forms of plant kingdom. It gives an idea about thesimplestgroupof plants. **CO2-** A systematic study of algae and fungi included in this group would familiarize students not only with structuraldifferentiation but also provide an insightabouttheheterotrophic and autotrophic modes of nutrition in the plant kingdom. **CO3**- This paper infact forms the basis of anyadvance studyin botany.
Paper-BCellBiology	**CO1**-Thispaperdealswiththebasicstructuralunitoflifei.e. Cellanditsorganelles. **CO2**-Itprovidesaninsightintostructuralandcytologicalbasis of functionaldifferentiationinplants. **CO3**-The course materialof thispaper givesanidea about cellular,molecularandbiochemicalbasisofsuchdifferentiation.
APlantDiversity-II	**CO1**-Itgivesanideaabouthowdifferentlifeformshave evolvedfromsimplertocomplexones. **CO2**-A sequential study ranging from Bryophytes (the amphibians of plant kingdom) and then to Pteridophytes –thefirst vascular land plants would enable students to have a broad prospectiveofevolutionarytrendsin plantkingdom.
Genetics	**CO1**-Thispaperdealswithvariousaspectsofhereditarytrends observedinsuccessivegenerations. **CO2**-It provides an insight into genetic basis of such evolutionarytrends in plants. **CO3**-This paper provides an idea about the important role that genetics plays in structural and functional differentiation of plants.
Diversity of Seed plants andtheir Systematics-I	**CO1**-Thispaperdealswithhighlyadvanceandevolvedgroup ofplantswithnakedseedsi.e.Gymnosperms. **CO2**- The course work of this paper gives a fair idea about the general features, economic importance and study of fossils as well as livinggymnosperms.
Structure, Development and Reproduction in floweringplants-I	**CO1**-Thispaperdealswiththebasicbodyplananddiversityin floweringplantforms. **CO2**-The course work of this paper covers vegetative and reproductive morphology of these plants and willfamiliarize the studentswith plantsbearingthe enclosed seeds.

Diversity of Seed plants andtheirSystematics-II	**CO1**-Thispaperdealswithhighlyadvanceandevolvedgroup ofplantsi.e.Angiosperms. **CO2**- The study of gradual transition from seedlessplants to seed plants would make students familiar with originof structuralandfunctionalcomplexityin plantkingdom. **CO3**- The systematics part of this paper is infact the backbone of the studyof Botany. **CO4**-Without having knowledge of taxonomy and species concept no further research work can be pursued. The identification, nomenclature and classification of the concerned plantsmakethe firststep of anyresearchwork in Botany.
BStructure,Development and Reproduction in floweringplants-II	**CO1**-Thispaperdealswithstructure,developmentand reproduction in flowering plants- the most fascinating group of plantson earth. **CO2**-Thecoursework ofthispaperdealswith internalstructure of various plant parts,their growth patterns and abnormalities in structural development. **CO3**-The vast range of variation found in this group of plants provides a platformtostudents for acquiringbasic knowledgeof flowering plants which make a foundation of applied branches likeHorticulture,Floriculture,OlericultureandArboriculture.
PlantPhysiology-I	**CO1**-Thebasicaimofthispaperistofamiliarizethestudents with variousconcepts offunctionandmetabolismofplants. **CO2**-The course material of thispaper wouldenablethe studentsto correlatestructuraldiversityofplantforms with functionaldifferentiationanditsbiologicalaspectsincluding biologicalnitrogenfixationandmineralnutrition.
PlantEcology	**CO1**-Tomakestudentsawareabouttheroleofenvironmentin causingstructureandfunctionalvariationinplants. **CO2**- Since the present day problems of varied nature like pollution, globalwarmingetc. are directlyor indirectlyrelatedto Ecology, it is more than desired to provide the students with knowledgeof basic concepts of Ecology.
PlantPhysiology-II	**CO1**-To familiarize thestudentswithgrowthandmetabolic processes of plants. **CO2**-Italsodealswiththeplantdevelopment,differentiation andtheirregulatorymechanismalongwithbasicconceptsin tissueculture.

Paper-B EconomicBotany	**CO1**- This paper aimed togiveaninsightintoplant wealthsuch as medicinal plants, crop plants, beverages, spices, condiments, sugar, fiber, pulp and oil yielding plants of commercial and economicimportance. **CO2**- Both the aspects of this paper give a sound basis of Ecology and Economic Botany so that students can venture into fields like Environment Biology, Forestry, Agriculture, Horticultureand Crop productionetc.

NameofCourse	**CourseOutcomes**
Semester-I **InorganicChemistry**	Attheendofsemester,thestudentwillbeableto: **CO1**-Describeinternalstructureofanatom, thearrangementof electrons,protonsandneutronsandthedualbehaviourof microparticals. **CO2**-Explaintheclassificationofperiodictableintogroupsand periods, physiochemical properties of elements and their variationsaccrosstheperiodictable. **CO3**-Calculate quantitativelytheelectronegativity,ionisation energyandionicradiiofatoms/ions. **CO4**-ExplainProperties,usesandcompoundsofmaingroup elementsandtheirdiagonalrelationshipwitheachother **CO5**-ExplaintheChemistryofNoblegasesandthestructures oftheircoumpounds. **CO6**-Explainvariousbondingtheoriesofmolecules,geometries ofvariouscompounds,andcalculationofbondorders.
OrganicChemistry	Attheendofsemester,thestudentwillbehavingdetailed knowledgeof: **CO1**- Basic concepts of organic chemistry like- Hybridisatiom, localised and delocalised bonds, Electrophiles, Nucleophiles, Free radicals,Carbenes, Nitrenes, Arenes, Carbocations, Carboanions, Inductive effect, Resonance effect, Electromeric effect, Types of organic reactions, methods todeterminereaction mechanisms. **CO2**- methods of formation of alkanes and their physical and chemicalproperties. **CO3**-Mechanismoffreeradicalhalogenationsofalkanes. **CO4**- Methods of formation of cycloalaknes, their physiochemicalpropertiesand thetheoriesexplainingtheir

	stabilities. **CO5-** BasicsofStereochemistryand itsapplicationto organic compounds.
PhysicalChemistry	Attheendofthesemester,thestudentswillbeableto: **CO1-** Describe various mathematicalconcepts like log,sin,cos, slope, exponentials, maxima, minima, differentiation, curve fittingetc **CO2-**Analyseandinterpret variouskindsofdata **CO3-**Explainvariouspropertiesof gaseousstateofmatter and the gas laws **CO4-**Describeratesofreaction,orderofreactions,molecularity of reactionsand variousfactors affecting the reaction rates. **CO5-**Describetheconceptofcollisiontheory,activation energy,reactionprofilediagramsandtransitionstatetheory.
Semester-II **InorganicChemistry**	**CO1-**Concepts:closepacking,variousionicstructures,radius ratioruleandcoordinationnumberofSolids. **CO2-**semi-conductorsand explainchemicalbehaviorofionic solids. **CO3-**comparisonof(includingdiagonalrelationship)group13- 14 elementsand 15-17elements. **CO4-**Compounds of groups 13-17 like hydrides, oxides, oxyacidsandhalides,fullerenes,carbidesetc. **CO5-** Basic properties of halogens,interhalogens and polyhalides.
OrganicChemistry	**CO1-**DescribeNomenclature,methodsofformation, physiochemical properties of alkenes and dienes and discuss theirreaction mechanisms. **CO2-**Explain structure and bonding in alkynes, methods of formationof alkynesandtheirchemicalreactions **CO3-**Explain the concept of aromaticity, and describe the mechanismofaromaticelectrophilicsubstitutionreactions **CO4-**Discuss methods of formation and chemical reactions of alkylbenzene,alkynylbenzenes andbiphenyl. **CO5-** Describe the synthesis, properties and uses of Alkyl and Aryl halides with reaction mechanism of nucleophilic substitutionreactions.
PhysicalChemistry	**CO1-**Explainvariousthermodynamicterms.

	CO2-Describethefirstlawofthermodynamics. **CO3**- Explain theconcept of standard state, standard enthalpy of formation, enthalpy of neutralization Calculate bond-dissociationenergy. **CO4**- Classify colloids and explain their preparation and properties. **CO5**- Explain types of solutions and expresstheirconcentration,activitycoefficient.
Semester-III **InorganicChemistry**	**CO1**-Propertiesofelementsoffirsttransitionseriesandtheir simplecompoundsandcomplexes. **CO2**-Characteristicsofelementsofsecondandthirdtransition Series. **CO**3-Werner's co-ordination theory and its experimental verification. **CO4**-Valencebondtheoryoftransitionmetal complexesand propertiesof coordinationcompounds.
OrganicChemistry	**CO1**-Elaboratethesynthesis,physicalpropertiesand chemical behaviour of Alcohols, Phenols,Aldehydes,Ketones and various types ofsubstitutedandunsubstitutedCarboxylicacids. **CO2**-ExplaintheacidicbehaviourofAlcohols,Phenolsand carboxylicacids. **CO3**-ExplaintheTautomerisminAldehydesandKetones. **CO4**-Identifytheuseofacetalsasprotectinggroup.
PhysicalChemistry	**CO1**-Structureofliquidsqualitatively. **CO2**-Structuraldifferencesbetweensolids,liquidsandgases. **CO3**-Classificationofliquidcrystalsandtheirstructure. **CO4**-Conceptofequilibriumconstantandfreeenergy. **CO**5-Thermodynamiclawofmassaction. **CO6**-Secondlawofthermodynamicsandconceptofentropy **CO7**-Thirdlawofthermodynamics.
Semester-IV **InrganicChemistry**	**CO1**-Describevariousproperties,compounds andusesof LanthanoidsandActinoids **CO2**-ExplaindifferentconceptsandapplicationsofAcidsand Bases **CO3**- KnowRedox reactionsand Redox potentialdataof variouselements. **CO4**-Redoxbehaviourofelements. **CO5**-Non-Aqueoussolvents.
OrganicChemistry	**CO1**-Nomenclature,laboratorypreparation,physical& chemical properties and applications of carboxylic acid derivatives, Ethers, Epoxides, Nitrogeneous organic compounds and Heterocycliccompounds.

	CO2-Synthesisandpropertiesofsomeimportantclassof organiccompoundswithmechanism.
PhysicalChemistry	**CO1-**PhaseequlibriumandNernstdistributionlaw **CO2-** Various examples of electrochemical and electrolytic cells, their cell reactions, calculation of their EMFs and their applications.
Semester-V **InorganicChemistry**	**CO1-**Metal-ligandbondinginmetalcomplexes. **CO2-**Stabilityandreactivityofmetal complexes,ratesof reactions. **CO3-**organometallicchemistry. **CO4-** Role of inorganic compounds and their chemical reactionsin biologicalsystems.
OrganicChemistry	**CO1-**Variousspectroscopictechniquesofstructureelucidation oforganiccompounds:UV,IR&NMRspectroscopies. **CO2-**ChemistryofCarbohydrates.
PhysicalChemistry	**CO1-**QuantumMechanics:Wavefunctions,operators, Formationandtypesofmolecularorbitalsfromatomicorbitals **CO2-** Photochemistry:concept,laws of photochemistry,various photochemical reactions and their dependency upon various factors.
Semester-VI **InorganicChemistry**	**CO1-**SiliconsandPhosphagenes. **CO2-**HardandSoftacidsandbases. **CO3-**Electronicand Magneticpropertiesand spectraofMetal complexes.
OrganicChemistry	**CO1-**chemistryofAminoacids,peptides,proteins,DNA& RNAandtheirroleinbiologicalsystems. **CO2-**Polymersandtheirapplicationsineverydaylife. **CO3-**Enolatesandsyntheticapplications. **CO4-**ChemistryofOrganometalliccompounds.
PhysicalChemistry	**CO1-**VariouspropertiesofSolids,theirinternalstructures, structureelucidationandtheir applications. **CO2-**Various spectroscopic techniques for determining

	structuralproperties of compounds:Rotational,Vibrational, ElectronicandRamanspectroscopies.
B.ScandB.ScB.Ed-I PracticalChemistry	**CO1**-MixtureAnalysis:Separationandidentificationof Cationsandanions. **CO2**- Volumetric Titrations: Involving acid-base, Potassium permaganate, potassiumdichromate. **CO3**- Crystallization and determination of melting points, refractive indices, viscosity, surface tension of Chemical compounds.
B.Sc andB.ScB.Ed-II PracticalChemistry	**CO1**-Quantitative,Volumetric andgravimetricanalysisof chemicals **CO2**- Thermochemistry: Determination of enthalpy of neutralization ,enthalpyof ionizationof acids andbases **CO3**-SaltAnalysis:Detectionoforganiccompounds
B.ScandB.ScB.Ed-III PracticalChemistry	**CO1**-Synthesis and analysis: Preparation of inorganic complexes **CO2**-Sponificationofethylacetate,distributionofiodineand benzoicacid. **CO3**- Column chromatography, Synthesis of organic compounds,stereochemical study of organiccompounds.
ComputerScience	**CO1**-Studentscanlearnbasicfunctionalityofinputoutput devices. **CO2**-Studentscan learndifferencebetween commandbased interface and graphicaluser interface. **CO3**-Ithelpsthestudentstoknowaboutvariousmemorieslike RAM and ROM. **CO4**-It helps the studentstoknowaboutthevarious applicationsofcomputer.Studentscan learn variousfeaturesof MS-Wordlikemailmerge,macro,wordformatting,margins, indentation,auto correct. **CO5**-StudentscanmakepresentationsusingMS-PowerPoint. They canalsolearn toapplyanimationstothe slide. **CO6**-Studentscan learn variousfeaturesofMS-EXCELlike creating charts,usingformulas,autosum,macro
ComputerFundamental (CS01	**CO1**-Studentscanlearnbasicfunctionality ofinputoutput devices. **CO2**-Studentscanlearn difference betweencommandbased interface and graphicaluser interface. **CO3**-Ithelpsthestudentstoknowaboutvariousmemorieslike

	RAMand ROM. **CO4-**It helps the students to know about the various applicationsof computer.
PCSoftware(CS02)	**CO1-**Studentscanlearn variousfeaturesofMS-Wordlikemail merge, macro,word formatting, margins, indentation, auto correct. **CO2-**Students can make presentationsusingMS-PowerPoint. They canalsolearn toapplyanimationstothe slide. **CO3-**Students can learnvariousfeaturesofMS-EXCELlike creating charts,usingformulas,autosum,macro.
Practicalbasedon(CS01)-(PCS	**CO-**Studentscangetpracticalknowledgeofmsword,msexcel, mspowerpoint.They canusetheseskillin variousday today operations.
3.Operating System Concepts(C	**CO1-**Describetheimportantcomputersystemresourcesandthe roleofoperatingsysteminresourcemanagement. **CO2-**Understand the process management policies and schedulingof processes by CPU. **CO3-**Evaluatetherequirementforprocesssynchronizationand coordinationhandledby operatingsystem. **CO4-**Describeandanalyzethememorymanagementandits allocationpolicies. **CO5-**Identify andevaluatethestoragemanagementpolicies withrespectto differentstoragemanagementtech
4.CProgramming(CS04)	**CO1-**Illustratetheflowchartanddesignanalgorithmforgiven problemandtodevelopcprograms. **CO2-**Read,compileandtracetheexecutionofprogramswritten in C language. **CO3-**Develop program usingoperators,arrays and functions. **CO4-**Exerciseuser defineddatatypesincludingstructures and unionsto solveproblems. **CO5-**Developfileconcepts toshowinputandoutputoffilesin C
5.Practicalbasedon(CS04) (PCS)	**CO1-**Studentswilllearntoimplementbasicprogramsin C, compileandexecution. **CO2-**Studentswilllearn to implementArraysandflowcontrol of code. **CO3-**Studentswilllearntouseandimplementfunctionin C. **CO4-**Studentswilllearn toimplementfilereadingandwriting program
6.Computer Organization (CS05	**CO1-**Anabilitytolearnknowledgeofnumbersystems,error detectionsandcorrectionsmethods. **CO2-**Anabilitytounderstandcombinatorialand sequential buildingblocks.

	CO3-Anabilitytounderstandtheinstructioncycleandformats **CO4**-An abilitytolearnconceptofmicroprocessor&roleof assemblylanguage. **CO5**-A knowledge of systemmaintenance andharmto computerby vi
Object Oriented Programming using C++ (CS06)	**CO1**-Studentscandifferentiatethelanguageslikeprocedure orientedandobjectorientedlanguages. **CO2**-Studentswillbeablelearnclassesandobjects. **CO3**-Studentswillbeableto understanddifferentroleof functionin C++. **CO4**-Studentwillgetknowledgeofconstructor, destructor, polymorphismand inheritance.
8.PracticalBasedon(CS06) –(PCS03	**CO1**-StudentsareabletocreatesimpleprogramsinC++. **CO2**-Students areexpectedtocreateprogramsusingcontrol statements, loopingstatements inC++. **CO3**-Studentsareexpectedtocreateprogramsusingclass, objects in C++. **CO4**-Studentsareableto implementconceptsofdatahiding, functionoverloadingand operatoroverloading **CO5**-Studentsareableto implementconceptsofconstructors, and destructorsto create theprograms. **CO6**-Students are able to implement the concepts of inheritance, polymorphism.
DatabaseConcepts(CS07)	**CO1**-StudentswillbeabletounderstandthebasicsofDatabase &implicationsofDatabase. **CO2**-Studentswillgettheidea regardingRelationaldatamodel and theircomparison. **CO**3-StudentswillbeabletolearnaboutRelationalAlgebra and Calculus. **CO**4-Students will able to understand the normalization, concurrency & recovery in database.
DataStructure(CS08	**CO1**-Studentswillbeabletounderstandthedatastructuresi.e arrays,linklists. **CO2**-Students will get the idea regarding the sorting & searching of data usingvariousalgorithms. **CO3**-With the help of Non Linear Data Structures like Trees students can perform alternate operations for same data structure. **CO4**-Students willbe able to correlate the algorithms withreallifeproble
Practicalbasedon(CS08)– PCS0PCS04	**CO1**-Studentswillbeabletoimplementofvariousoperations ofdatastructureslikearraysStacks,QueuesandLinkedlists. **CO2**-Studentsaresupposed toimplementvarious searching algorithms.

	CO3-Understandingofvarioussortingalgorithmslike Merge Sort,QuickSort,InsertionSortandtheir implementation.
2.ProjectManagement(C Management(CS09	**CO1**-Studentswillbeabletounderstandprojectplanningand implementation. **CO2**-Understandingof ProjectLifeCycle,Riskfactors and achievingthe deadline
13.Relational Database ManagementSystem(CS10	**CO1**-DescribeDBMSarchitecture,physicalandlogical database designs,database modeling,relational,hierarchicaland network models. **CO2**-Identify basic database storage structures and access techniques such as file organizations, indexing methods includingB-tree,and hashing. **CO3**-LearnandapplyStructuredquerylanguage.
Practicalbasedon(CS10)– (PCS05	**CO1**-ImplementBasicDDL,DMLandDCLcommands. **CO2**-Understand Dataselectionand operatorsused inqueries andrestrict data retrieval and controlthe displayorder. **CO3**-Writesubqueriesandunderstandtheirpurpose. **CO4**-Understandthe PL/SQLarchitectureandwritePL/SQL code forprocedures, triggers,cursors, exception handlingetc. **CO5**-Joinmultipletablesusingdifferenttypesofjoinmultiple.
15.E-Commerce(CS11)	**CO1**-Demonstrateanunderstandingofthefoundationsand importanceofE-commerce. **CO2**-Demonstrate an understanding of retailing in E-commerce **CO3**-Analyze the impact of E-commerce on business models and strategy. **CO4**-Discuss legal issues and privacy in E-Commerce. CO5-Describe Internet trading relationships including Business to Consumer,Business-to-Business,Intra-organizational. **CO6**-Describetheinfrastructure
WebProgramming(CS12)	**CO1**-Studentsareableunderstandthewebpage,website,web server&browser. **CO2**-Students are expected to learn the various tags of HTML. **CO3**-Students are expected to get knowledge of linking documentsand cascading stylesheets. **CO4**-Studentsareable tolearnthejavascriptandPHPlan
17.Practicalbasedon(CS12) –P	**CO1**-StudentsareabletoimplementthetagsofHTML. **CO2**-Studentsareexpectedtoimplementtheprogrammesof DHTML. **CO3**-Studentsareexpectedto implementthe variousconcepts of Java scriptlanguage. **CO4**-Studentsare ableto work with PHP programmes&their implementation

	B.Sc(BachelorofScience)
ProgrammeName	**ProgrammeOutcomes**
B.Sc	**Thestudentswillbeableto:** **PO1**-Know the facts and figures relatedtovarious subjects suchas Mathematics,Physics, ChemistryandComputerScience. **PO2**-Understandthe basicconcepts,fundamentalprinciples,andthe scientific theories related to various scientific phenomena andtheir relevance inthe day-to-day life. **PO3**-Acquire experience in handling scientific instruments, schedulingandexecutingthe experiments inlaboratories andtodraw logicalinferences from the scientificexperiments. **PO4**-Think creatively topropose innovative ideas inclarifyingfacts andfiguresandprovidingnew solutiontothe problems. **PO5**-Have knowledge about developments in science subjects and interdisciplinary approach helps in providing better solutions and new ideas for the sustainabledevelopments. **PO6**-Developscientificaptitudeamongthestudentstomakethem open-minded,criticalandcuriousinorder to dealwithallaspects related to life.. **PO7**-Understand,formulateandusequantitativemodelsarisingin socialscience, Businessand other contexts. **PO8**-Joinasscientistandcanevenlookforprofessionaljoboriented courses. **PO9**-Have opportunitiesforservingin IndianArmy,IndianNavy, IndianAirForce as officers. **PO10**-Serveinindustriesormayoptforestablishingtheirown industrialunit. **PO11**-TeachinSchools/Colleges. **PO12**-HavetheoptiontojoinIndianCivilServicesasIAS,IFSetc.
NameofCourse	**CourseOutcomes**
Mathematics	**Thestudentwillbeableto:** **CO1**-Enablingstudents todevelopapositiveattitudetowards mathematicsasaninterestingandvaluablesubjectofstudy. **CO2**-UnderstandMathematicalconceptsandconcernedstructuresto followthepatternsinvolved. **CO3**-Analyse a problem,identify and define the computing requirements,whichmaybeappropriatetoitssolution. **CO4**-Enhancingstudents'overalldevelopmentandtoequipthem with mathematical modelling abilities, problem solving skills, creativetalentandpowerofcommunicationnecessaryforvarious

	kindsofemployment. **CO5**-Pursue advanced studies and researchin pure mathematics. **CO6**-Formulateanddevelopmathematicalargumentsinalogical manner. **CO7**-Thinkinacriticalmanner.
SemesterI **PlaneGeometry**	**At the end of the course,the students would be able to:** **CO1**-EnhancetheknowledgeofStraightlines,parabolas,ellipse, hyperbolaand sphere. **CO2**-identifydifferentconics fromgeneralequationofdegree two. **CO3**-Studentswillbeabletoidentify,describe,compareandclassify different geometric figures such as circle, parabola, ellipse, hyperbola. **CO4**-Understandandapplygeometricpropertiesandrelationship.
CalculusI	**CO1**-GainKnowledgeoffundamentalconceptsofrealnumbers. **CO2**-Verifythe valueofthelimitof a functionata pointusingthe definitionof the limit. Introductiontosequenceandseries. **CO3**-Learn to check function is continuous understand the consequences of the intermediatevaluetheorem.
TrigonometryAnd Matrices	**CO1**-UnderstandtheoryandapplicationsofDeMoivre'stheorem. **CO2**-Understandexponential,logarithmic,circularandhyperbolic functionsof a complexvariable. **CO3**-Understand theoryandapplicationsofsummationofseries includingGregory series. **CO4**-LearnbasicpropertiesofHermitianandskew-Hermitian matrices. **CO5**-Computerankofamatrixusingvariousmethods,eigen values and eigenvectors of a matrix. **CO6**-Understand theory and applications of Calay-Hamilton theorem.
SemesterII **SolidGeometry**	**CO1**-Studentwillbeabletoidentifydifferentgeometricsolids especiallycones,cylindersandspheres. **CO2**-Deduce properties of and relationship between figures from givenassumptions. **CO3**-Able to learn ellipsoid, hyperboloid and parabolic in standard form and reduction of second degree equation in three variables in standard form.
CalculusII	**CO1**-Studentwillbetounderstanddifferentiationandfundamental theoremin differentiationandvariousrules. **CO2**-GeometricalrepresentationandproblemsolvingonMVTand Rollstheorem. **CO3**-Findingextremevaluesoffunction.

	CO4-IntroductiontoOrdinaryDifferentialEquation.
TheoryOfEquations	**CO1**-Understandvariouspropertiesofroots,relationbetween roots andcoefficientsforrealpolynomials. **CO2**-Understand theory and applicationsof transformation of equationsand Descartes'rule ofsigns. **CO3**-Understand theory and applications of Newton's method of divisors, Cardan's method of solving a cubic, Descarte's and Ferrari's methodfor solvinga bi-quadratic.
AdvancedCalculus-I	**CO1**-Studentswillbeabletotakederivativesofmultivariable functionsbyusingappropriaterules. **CO2**-Studentswillbeabletousethechainrulebyapplyingnecessary rules. **CO3**-Studentswillbeabletotakederivativesofmultivariable functionsbyusingappropriaterules. **CO4**-Studentswillbe abletoperformvectorcalculusoperationsby partial derivatives,andmatrixpartial derivatives.
Differential Equation.	**CO1**-Studentwillbeabletosolvefirstorderdifferentialequations utilizing the standard techniques for separable, exact, linear, homogeneous,or Bernoullicases. **CO2**-Student will be able to find the complete solution of a nonhomogeneousdifferentialequationasalinearcombinationofthe complementaryfunctionanda particularsolution. **CO3**- Student will have a working knowledge of basic application problemsdescribedbysecondorderlineardifferentialequationswith constantcoefficients.
Statics	Students will be able to learn about **CO1**- Basic concepts,composition and resolution of concurrent forces .**CO2**-.Equilibrium of the forces acting at a point,Parallel Forces **CO3**- Moments nd Couples,Equilibrium conditions for Coplanar Forces **CO4**- Types of Friction,laws of Frictions,Coefficient of friction
AdvancedCalculus-II	**CO1**-Studentswillbeabletoknowaboutthedifferentkindofforces actingonabodyatrestandtheirproperties. **CO2**- Students will learn about coplanar forces, parallel forces, moments,Varignon'stheoremof moments,couples,resultantof two coplanarcouples,andequilibriumoftwocoplanarcouples. **CO3**-Studentswilllearnabout Centre ofGravityofdifferent bodie. **CO4**-Studentswillbeabletodifferentiationofvectors,Gradient, divergenceandcurloperators,lineintegrals,Vector identity,Vector integration,GaussTheorem,GreenTheorem,StokesTheoremand problemsbasedonthem

Differential Equation	**CO1**-Calculuswillhelpstudentstotracegraphsofdifferent functionsandhowtofindtheirintegrals. **CO2**-StudentswillbeabletorelatedifferentTrigonometricintegrals usingreductionformulae. **CO3**-Studentswillbeable tosolve differentialequationswith constantand variablecoefficients. **CO4**-Studentswilllearntofindmaximaandminima,criticalpoints andinflexionpoints offunctions and todetermine the concavity of curves.
Dynamics	**CO1**-Dynamicswillhelptounderstandtheconceptofspeed, velocity,accelerationandusetheseinsolvingproblems. **CO2**-Students willlearnaboutNewton'sLawsMotionandits applications. **CO3**-Studentswilllearnaboutwork,powerandenergyandlaws relatedtokineticandpotentialenergy. **CO4**-Studentswillbetoknowaboutcurvilinearmotionofparticle in a planeand projectiles.
Semester-V **Analysis–I**	**CO1**-Determinethebasictopologicalpropertiesofsubsetsofthereal numbers **CO2**-Defineconnectedness and compactness,and prove a selection of related theorems. **CO3**-Definethelimitofa sequence,seriesandthe Cauchy criterion **CO4**-Testthe convergenceof seriesusing Ratio,Root and comparisontests. **CO4**-Definecontinuityofafunctionand uniformcontinuityofa function **CO5**-Proveatheoremaboutcontinuousfunctions **CO6**-Determine the continuityof a functionat a point andonaset. **CO7**-Differentiatetheconceptofcontinuityanduniformcontinuity **CO8**- Define the derivativeof a function.
ModernAlgebra	**CO1**-DefineGroupandSubgroups,NormalSubgroups,Quotient GroupsandPermutationGroupwithexamples. **CO2**-ProveCayley'stheorem,Sylow'stheorem. **CO3**-Define Ring, Field, Extension Field, Euclidean Rings, PolynomialRingsandVector Spacewithexamples.
ProbabilityTheory	**CO1**-DefineProbability setfunction,Expectationofarandom variable. **CO2**-DescribeconditionalDistributionsandexpectations. Studydifferentmeasuresofcentraltendency,dispersion, moments,skewnessandkurtosisandprobabilityalong withits varioustheoremsand applications. **CO3**-Learnaboutmathematicalexpectationsandmoments,moment generatingfunctionsandtheirproperties. **CO4**-Study differentprobability distributions suchasBinomial, Poisson's, Exponential,Gamma,Beta,andNormal. **CO5**-LearnaboutLeast-Squareprinciple,Linearand Multiple Regression,Co-relationCoefficientsand ratio

Semester-VI **Analysis–II**	**CO1**-Determinethebasictopologicalpropertiesofsubsetsofthereal numbers **CO2**-Defineconnectedness andcompactness,and prove a selection of related theorems. **CO3**-Definethelimitofa sequence,seriesandthe Cauchy criterion **CO4**-Testthe convergenceof seriesusing Ratio,Root and comparisontests. **CO4**-Definecontinuityofafunctionand uniformcontinuityofa function **CO5**-Proveatheoremaboutcontinuousfunctions **CO6**-Determine the continuityof a functionat a point andonaset. **CO7**-Differentiatetheconceptofcontinuityanduniformcontinuity **CO8**- Define the derivativeof a function. **CO9**-Proveatheoremaboutthederivativesoffunctions **CO10**-Appreciate how abstract ideas and rigorous methods in mathematical analysis can be applied to important practical problems.
Linear Algebra	**CO1**-Introductiontovectorspace andsubspace. **CO2**-Usecomputationaltechniquesandalgebraicskillsessentialfor thestudyofsystemsofLinearequations,matrixalgebra,vector spaces, eigenvaluesandeigenvectors,Orthogonalityand Diagonalization.(ComputationalandAlgebraicSkills).
NumericalAnalysis	**CO1**-Toapplyappropriatenumericalmethodstosolvetheproblem withmostaccuracy. **CO2**-Using appropriatenumericalmethodsdetermineapproximate solutionof ODE andsystem of linearequation. **CO3**-Compare different methods in numerical analysis w.r.t accuracyand efficiency of solution.
Physics	**CO1**-ThisabletounderstandDataofSciencestodevelopresearch skillsthatincludenumerical techniques, advancedlaboratory techniques,electronics,and semiconductorservices. **CO2**-TostudyBasicScience,Master'sinPhysics.Todevelop Analyticalabilitylogicalability,Dataefficiency. **CO3**-Todevelopresearchskillsthatincludenumericaltechniques advancedlaboratorytechniques,electronics,andsemi-conductor devices. **CO4**-Inhospital, MRI&Endoscopy.Intheresearchfieldat scientistsphysicists,DataAnalysts. **CO5**-TeachinginSchool/colleges,BankingInsuranceSector.
Semester-I **Physics:Mechanics-I**	**CO1**-Kepler'slawanditsapplicationsinvariousorbitalaspects. **CO2**-Thinkcriticallyaboutthetheoriesofphysics. **CO3**-Thinkcriticallyaboutthecontributionofvariousscientists

	intheclassicalworld. **CO4-**ThinkcriticallyaboutthecontributionofNewton'slawsin ourdaytoday life. **CO5-**ThinkcriticallyaboutthecontributionofEuler's Equationin solvingvariousproblems. **CO6-**Thinkcriticallyabouttheuseofphysicsinourdailylife
Vibrations,Waves &E.,M.,Theory-I	**CO1**-KnowhowtodefinevariousbranchesofVibrationandWaves. **CO2**- Understand and explain the basic concepts associated with Oscillation, simple harmonic oscillation,dampedoscillations energy of oscillor(Mechanicaland electrical),Waves. **CO3**- Students willunderstand and abletodescribeOscillationsand simpleharmonicmotion,andwaves andstandingwaves.
Electricityand Magnetism-I	**CO1**-KnowhowtodefineElectrostaticsandElectrodynamics. **CO2**-UnderstandMaxwellequationsandtheirimportance. **CO3**-Propertiesofelectromagneticwaves.
Semester-II Mechanics-II	**CO1**-UnderstandbasicsformalismofMechanicsandits implications. **CO2**-UnderstandFouacult'sPendulumandmotionofrigidbodies. **CO3**-Studentswillbeabletounderstandmotionofcentreofmass.
Vibrations,Waves &E.,M.,Theory-II	**CO1**-KnowhowtodefinevariousbranchesofVibrationand Waves. **CO2**-Understandand explainthebasic conceptsassociatedwith Oscillation,simpleharmonicoscillation,dampedoscillationsenergy of oscillor(Mechanicaland electrical),Waves. **CO3**-StudentswillunderstandandabletodescribeOscillationsand simpleharmonicmotion, andwavesandstandingwaves.
Electricityand Magnetism-II	**CO1**-KnowhowtodefineavariousbranchesofElectricityand Magnetism. **CO2**-Understandandexplainthe basicconceptsassociatedwith theelectricandmagneticfield(e.g.BoitSavortLaw,Implicationsof Maxwell equations,Gauss Lawandnotherimportantlaws of Electricityand Magnetism). **CO3**-Studentswillbeable tounderstandbasis ofelectricityand how does the thingschange in differentsituations.
Semester-III StatisticalPhysicsand Thermodynamics-I	**CO1**-Explainthevarious lawsofthermodynamics andall thethermoDynamicalprocessesalongwiththeiressential variables. **CO3**-Haveabasicknowledgeofenergyfluctuationsincanonical ensemble.**CO4**-Acquiresknowledgeof propertiesofalltypes ofmagnetic substanceslike paramagnetic, diamagneticandtheir propertiesand susceptibility. **CO5**-Acquiresknowledgeofallquantumstatesandphasespace.

OpticsandLasers-I	**CO1**-Studentswilllearnaboutinterferenceoflightbydivisionof amplitudeandwavefront. **CO2**-Studentswillstudytheapplicationsofinterferenceoflightin non-reflectingthinfilmsand opticaldevices. **CO3**-Conceptofpolarizationandmethodstopolarizelightwillbe introducedto them. **CO4**-Theywilllearn aboutconstructionandapplicationofNicol prism,Quarter and Half wave plate.
QuantumPhysics -I	**CO1**-Diracnotationanditsadvantageaboveothernotations. **CO2**-Thedifferencebetweenclassicalandquantumphysics. **CO3**-Howtohandlealgebra oforbitalangularmomentum
Semester-IV **StatisticalPhysicsand Thermodynamics-II**	**CO1**-Achievedtheabilitytoexplainthevariousstatisticalphysics andtheirproperties. **CO2-**Explain the variouslaws of thermodynamicsandall the thermodynamicalprocessesalongwiththeiressentialvariables. **CO3**-Acquiresknowledgeof propertiesof carnotheatengine. **CO4**-Acquiresknowledgeof all quantumstatesandphase space.. **CO5-**DescribetheroleofBoseEinsteinCondensationandtheirall concepts inbrief. **CO6**-read,understandandexplainscholarlyjournalarticlesin statistical physics
OpticsandLasers-II	**CO1**-Achievedtheabilitytoexplainthevariousoptical phenomenons. **CO2-**ExplainthevariouslawsofOpticsandallprocessesalong with theiressential variables. **CO3**-Read,understandandexplainscholarlyjournalarticlesin Optics **CO4**-Achievedtheabilitytoexplainthevariousatomicspectra phenomenons. **CO5**-Explainthevariouslawsof Lasersandallprocessesalong with theiressential variables. **CO6**-Read,understandandexplainscholarlyjournalarticlesin LaserSpectra
QuantumPhysics -II	**CO1**-KnowhowtodefineavariousbranchesofQuantumPhysics (eg. high energy physics, high particle physics,Molecular Physics). **CO2-** Understandandexplainthe basic concepts associatedwiththe quantum physics (eg.Uncertanity principle, Normalization, Operators) **CO3**-Studentswill understand andable todescribe the difference betweenclassical(old)and quantum(new) physics.
Semester-V	**CO1**-Studentswilllearnaboutthebasicsofcrystalstructureand symmetriesoperationintwoandthreedimensionalcrystals.

CondensedMatter Physics-I	**CO2**-Experimentalmethodsforcrystalstructurestudieswillbe introducedtothestudents. **CO3**-Studentswillbeabletounderstandvariousreciprocallattice, constructionofBrillouinZone inTwoandthreedimensions. **CO4**-ConceptofPhononswillbeintroducedtothestudents. Moreover,theywillbeable tocalculate thedensityofmodesof vibrations. **CO5**-Studentswilllearnabout the basicconceptsof band theory anddifferentiatebetweenconductors,semi-conductorsand insulator usingKronig-Pennymodel.
ElectronicsandSolid StateDevices-I	**CO1**-Haveabasicknowledgeofhowsemi-conductorelectronics works. **CO2**-BasicsofDiode,Transistor,Op-Amp,Micro-Processor. **CO3**-TheoryofDigitalCircuits. **CO4**-A/DandD/Aconverter. **CO5**-knowthesignificanceofAmplitudegain. **CO6**-knowthefundamentalprinciplesofoscillators.
NuclearandParticle physics	**CO1**-Studentswilllearnabouttheconstituentsofnucleusand variouspropertiesofnucleus. **CO2**-Studentswillbeintroducedwiththevariousmodesofdecay ofradioactivenuclidesandthelawsgoverningtheradioactivedecay. **CO3**-Studentswillgainknowledge aboutdifferenttypesofnuclear reactions,theirreactioncrosssectionandconservation lawsfollowed by them. **CO4**-TheywillbeexplaineddifferentNuclearmodels-Liquiddrop modeland Shellmodel.
Semester–IV CondensedMatter Physics-II	**CO1**-haveabasicknowledgeoflatticespecificheatandelastic constants. **CO2**-understandtheconceptofpointdefectsandbeabletouseit as a tool. **CO3**-knowthesignificanceofgrainboundaries. **CO4**-knowthe fundamentalprinciplesofmeanfree pathinmetals andqualitativediscussionofthe featuresofresistivity. **CO5**- know basic models of dipole theory and thermodynamics of ferroelectrictransitions.
ElectronicsandSolid State Devices-II	**CO1**-Studentswillstudyaboutthejunction diodesandtheir applications. **CO2**-Studentswilllearnabouttransistorsandthe characteristics of theirdifferentconfigurations.1 **CO3**-Studentswillgainknowledgeabouthparametersandtheiruse

	foramplifieranalysis. **CO4**- They will understand the concept of feedback and use of negativefeedback in amplifiers. **CO5**- They will understand Barkausen condition for sustained oscillations as wellas construction and workingofdifferenttypesof oscillators
NuclearandParticle physics-II	**CO1**-understandthe elementaryparticlesandtheirclassification. **CO2**-willbeabletodetermineofmass,life time,decaymode,spin andparityof varioussub atomicparticles. **CO3**-knowaboutthesymmetriesandconservationlawsinvolving high energy particles. **CO4**- know about weak interactions, their classification and theoriesinvolving these decays such as Fermitheory and Cabibbo's theory **CO5**-learnaboutfieldequationsforscalar,spinor,vectorfields **CO6**-gaininformationaboutStandardModel. **CO7**-Students willlearnBethe-Blochformulawhichtellsaboutthe energy loss per unit length when a charged particle enters intothe matter. **CO8**- Students willbe introduced to various ways ofinteractionof gamma rays with matter. Photoelectric effect,Compton effect and pair productionprocesseswill be explainedtothem.
ComputationalPhysics (Practical)	**CO1**-BasicsofMATLAB. **CO2**-BasicsofInterpolationTechniques. **CO3**-Techniquestosolvedifferentialequations. **CO4**-Methodstosolverootsoftheequation.
Semester-I InorganicChemistryA	Attheendofsemester,thestudentwillbeableto: **CO1**-Describe internalstructure of anatom,thearrangementof electrons,protons and neutronsandthedualbehaviourofmicro particles. **CO2**-Explain theclassificationof periodictable into groups and periods,physiochemicalpropertiesofelementsandtheir variations across the periodictable. **CO3**-Calculatequantitativelytheelectronegativity,ionisation energy andionicradiiof atoms/ions. **CO4**-ExplainProperties,usesandcompoundsofmaingroup elements andtheirdiagonalrelationshipwith eachother. **CO5**-ExplaintheChemistryofNoblegasesandthestructuresof theircompounds. **CO6**-Explainvariousbondingtheories ofmolecules,geometriesof variouscompounds,andcalculationof bond orders.

OrganicChemistryA	**CO1**-Basicconceptsoforganicchemistrylike-Hybridisation, localisedanddelocalisedbonds, Electrophiles,Nucleophiles,Free radicals,Carbenes,Nitrenes, Arenes,Carbocations,Carbanions, Inductiveeffect,Resonance effect,Electromericeffect,Types of organicreactions,methodstodeterminereaction mechanisms. **CO2**-Methodsofformationofalkanesandtheirphysicaland chemicalproperties. **CO3**-Mechanismoffreeradicalhalogenationsofalkanes. **CO4**-Methodsofformationofcycloalkanes,theirphysiochemical propertiesandthe theoriesexplaining their stabilities. **CO5**-BasicsofStereochemistryanditsapplicationtoorganic compounds.
PhysicalChemistryA	**CO1**-Describevariousmathematicalconceptslikelog,sin,cos, slope,exponentials,maxima,minima,differentiation,curvefitting etc. **CO2**-Analyseandinterpretvariouskindsofdata **CO3**-Explainvariouspropertiesofgaseousstateofmatterandthe gas laws **CO4**-Describeratesofreaction,order ofreactions, molecularityof reactionsand variousfactorsaffectingthe reactionrates. **CO5**-Describetheconceptofcollisiontheory,activationenergy, reactionprofilediagramsandtransitionstatetheory.
Semester-II **InorganicChemistry-B**	**CO1**-Concepts:closepacking,variousionicstructures,radiusratio ruleandcoordinationnumberofSolids **CO2**-semi-conductorsandexplainchemicalbehaviourofionic solids **CO3**-comparisonof (includingdiagonalrelationship) group13-14 elementsand 15-17elements **CO4**-Compoundsofgroups13-17likehydrides,oxides, oxyacids and halides,fullerenes,carbidesetc. **CO5**-Basicpropertiesofhalogens,interhalogensandpolyhalides
OrganicChemistry-B	**CO1**-DescribeNomenclature,methodsofformation, physiochemicalpropertiesofalkenesanddienesanddiscusstheir reaction mechanisms. **CO2**-Explain structureandbonding inalkynes,methods of formationof alkynesandtheirchemicalreactions. **CO3**-Explain the concept of aromaticity, and describe the mechanismofaromaticelectrophilicsubstitutionreactions. **CO4**-Discuss methodsofformationandchemicalreactionsof alkylbenzene,alkynylbenzenesandbiphenyl. **CO5**-Describe the synthesis, propertiesandusesof Alkyl andAryl halides with reaction mechanism of nucleophilic substitution reactions.

PhysicalChemistry-B	**CO1**-Explainvariousthermodynamicterms. **CO2**-Describethefirstlawofthermodynamics. **CO3**- Explain the concept of standard state, standard enthalpy of formation, enthalpy of neutralization Calculate bond-dissociation energy **CO4**-Classifycolloidsandexplaintheirpreparationandproperties **CO5**-Explaintypes ofsolutionsandexpresstheir concentration, activitycoefficient.
Semester-III **InorganicChemistry-A**	**CO1**-Propertiesofelementsoffirsttransitionseriesandtheirsimple compoundsandcomplexes. **CO2**-Characteristicsofelementsofsecondandthirdtransition Series. **CO3**-Werner's co-ordination theory and its experimental verification. **CO4**-Valencebondtheoryoftransitionmetalcomplexesand propertiesof coordinationcompounds.
OrganicChemistry-A	**CO1**-Elaboratethesynthesis,physicalpropertiesandchemical behaviourofAlcohols,Phenols,Aldehydes,Ketonesandvarious types of substitutedandunsubstitutedCarboxylicacids. **CO2**-Explaintheacidicbehaviourof Alcohols,Phenolsand carboxylicacids **CO3**-ExplaintheTautomerismin AldehydesandKetones. **CO4**-Identifytheuseofacetalsasprotectinggroup.
PhysicalChemistry-A	**CO1**-Structureofliquidsqualitatively **CO2**-Structuraldifferencesbetweensolids,liquidsandgases **CO3**- Classificationof liquid crystals and theirstructure **CO4**-Conceptof equilibriumconstant and freeenergy **CO5**-Thermodynamiclawofmassaction. **CO6**-Secondlawofthermodynamicsandconceptofentropy **CO7**-Thirdlawofthermodynamics.
Semester-IV **InorganicChemistry-A**	**CO1**-Describevariousproperties,compoundsandusesof LanthanoidsandActinoids **CO2**-Explaindifferent conceptsandapplicationsofAcidsand Bases **CO3**-KnowRedoxreactionsandRedoxpotentialdataofvarious elements. **CO4**-Redoxbehaviourofelements. **CO5**-Non-Aqueoussolvents.

OrganicChemistry-B	**CO1**-Nomenclature,laboratorypreparation,physical&chemical propertiesandapplicationsofcarboxylicacidderivatives,Ethers, Epoxides, Nitrogeneous organic compoundsandHeterocyclic compounds. **CO2-**Synthesisandpropertiesofsomeimportantclassoforganic compoundswith mechanism.
PhysicalChemistry-B	**CO1**-PhaseequlibriumandNernstdistributionlaw. **CO2**-Various examplesof electrochemicalandelectrolyticcells, theircellreactions,calculationoftheir EMFsandtheir applications.
SemesterV **InorganicChemistry**	**CO1**-Metal-ligandbondinginmetalcomplexes **CO2-**Stabilityandreactivityofmetalcomplexes,ratesofreactions **CO3-**organometallicchemistry. **CO4**-Roleofinorganiccompounds andtheir chemicalreactionsin biologicalsystems.
OrganicChemistry	**CO1**-Variousspectroscopictechniquesofstructureelucidationof organiccompounds:UV,IR&NMRspectroscopies. **CO2**-ChemistryofCarbohydrates.
PhysicalChemistry	**CO1**-QuantumMechanics:Wavefunctions,operators,Formation andtypesofmolecularorbitalsfromatomicorbitals **CO2**-Photochemistry:concept,laws of photochemistry,various photochemicalreactionsandtheirdependencyuponvariousfactors.
SemesterVI **InorganicChemistry**	**CO1**-SiliconsandPhosphagenes. **CO2-**HardandSoftacidsandbases. **CO3**-ElectronicandMagneticpropertiesandspectraofMetal complexes.
OrganicChemistry	**CO1**-chemistryofAminoacids,peptides,proteins,DNA& RNA andtheirroleinbiologicalsystems. **CO2**-Polymersandtheirapplicationsineverydaylife. **CO3**-Enolatesandsyntheticapplications. **CO4**-ChemistryofOrganometalliccompounds.
PhysicalChemistry	**CO1**-VariouspropertiesofSolids,theirinternalstructures, structureelucidationandtheirapplications **CO2**-Variousspectroscopic techniquesfordeterminingstructural properties of compounds: Rotational, Vibrational, Electronic and Raman spectroscopies.
B.ScandB.ScB.Ed-II	**CO1**- Quantitative, Volumetric and gravimetric analysis of chemicals **CO2**-Thermochemistry:Determinationofenthalpyofneutralization ,enthalpyofionizationofacidsandbases **CO3**-SaltAnalysis:Detectionoforganiccompounds

B.ScandB.ScB.Ed-III	**CO1**-Synthesis and analysis:Preparation ofinorganiccomplexes **CO2**-Sponification ofethylacetate,distribution ofiodine and benzoicacid. **CO3**-Columnchromatography,Synthesisoforganiccompounds, stereochemicalstudy of organiccompounds.
ComputerScience	**CO**1-Studentscanlearnbasicfunctionalityofinputoutputdevices. **CO2**- Studentscan learndifferencebetween commandbased interface and graphicaluser interface. **CO3**- Ithelpsthestudentstoknowaboutvariousmemorieslike RAM and ROM. **CO4**-Ithelpsthestudentstoknow aboutthevariousapplicationsof computer.StudentscanlearnvariousfeaturesofMS-Wordlikemail merge, macro, word formatting,margins,indentation,auto correct. **CO5**-StudentscanmakepresentationsusingMS-PowerPoint.They canalsolearntoapplyanimationsto the slide. **CO6**-StudentscanlearnvariousfeaturesofMS-EXCELlike creating charts,usingformulas,autosum,macro
SemesterI **Paper-AFundamentalsof InformationTechnology**	**CO1**-Studentscanlearnbasicfunctionalityofinputoutputdevices. **CO2**-Studentscanlearndifferencebetweencommandbased interface and graphicaluser interface. **CO3**-Ithelpsthestudentstoknowaboutvariousmemorieslike RAM and ROM. **CO4**-Ithelpsthestudentstoknowaboutthevariousapplicationsof computer.
PracticalbasedonPaperA	**CO1**-Studentscangetpracticalknowledgeofmsword,msexcel, mspowerpoint.Theycanusetheseskillinvariousdaytoday operations.
Semester-II **Computer Programming Using C**	**CO1**-Illustratetheflowchartanddesignanalgorithmforgiven problemandtodevelopcprograms. **CO2**-Read,compileandtracetheexecutionofprogramswritteninC language. **CO3**-Develop program usingoperators,arrays andfunctions. **CO4**-Exercise user defined datatypes includingstructuresand unionsto solveproblems. **CO5**-DevelopfileconceptstoshowinputandoutputoffilesinC
PCSoftware(CS02)	**CO1**-StudentscanlearnvariousfeaturesofMS-Wordlikemail merge, macro, word formatting,margins,indentation,auto correct. **CO2**-Studentscanmake presentationsusingMS-PowerPoint.They canalsolearntoapplyanimationsto the slide. **CO3**-StudentscanlearnvariousfeaturesofMS-EXCELlikecreating charts,usingformulas,autosum,macro.

	CO4-StudentswilllearntoimplementbasicprogramsinC,compile andexecution. **CO5**-Studentswilllearnto implementArraysand flowcontrolof code. **CO6**-Students willlearntouse andimplementfunctionin C. CO4-Students willlearnto implementfilereading andwritingprogram
Semester-III ProgrammingusingC++	**CO1**-Studentscandifferentiatethelanguageslikeprocedureoriented andobjectorientedlanguages. **CO2**-Studentswillbeablelearnclassesandobjects. **CO3**-Studentswillbeabletounderstanddifferentroleoffunctionin c++. **CO4**-Student will get knowledge of constructor, destructor, polymorphismand inheritance.
PracticalBased	**CO1**-StudentsareabletocreatesimpleprogramsinC++. **CO2**-Studentsareexpected tocreate programsusingcontrol statements, loopingstatements inC++. **CO3**-Studentsareexpectedtocreateprogramsusingclass,objectsin C++. **CO4**-Studentsare ableto implementconceptsofdatahiding, functionoverloadingand operator overloading **CO5**-Studentsare ableto implementconceptsof constructors,and destructorsto create the programs. **CO6**-Studentsareabletoimplementtheconceptsofinheritance, polymorphism.
Semester-IV WebApplicationandJava	**CO1**-Studentsareableunderstandthewebpage,website,webserver &browser. **CO2**-Students areexpected to learn the varioustags of HTML. **CO3**-Studentsareexpectedtogetknowledgeoflinkingdocuments and cascadingstylesheets. **CO4**-Studentsareabletolearnthe javascriptandPHPlan.
Practical	**CO1**-StudentsareabletoimplementthetagsofHTML. **CO2**-Studentsareexpected toimplementtheprogrammesof DHTML. **CO3**-Studentsare expectedto implementthevariousconceptsof Java script language. **CO4**-Studentsareable toworkwith PHPprogrammes&their implementation
Semester-V DatabaseConcepts(CS07)	**CO1**-StudentswillbeabletounderstandthebasicsofDatabase& implicationsofDatabase. **CO2**-Studentswillgetthe idea regardingRelationaldata modeland theircomparison.

	CO3-StudentswillbeabletolearnaboutRelationalAlgebraand Calculus. **CO4-**Studentswillabletounderstandthenormalization,concurrency & recovery indatabase.
Practical	**CO1**-Studentswillbeabletoimplementofvariousoperationsofdata structureslikearraysStacks,QueuesandLinkedlists. **CO2-**Students are supposed to implement various searching algorithms. **CO3-**UnderstandingofvarioussortingalgorithmslikeMergeSort, Quick Sort, InsertionSortandtheirimplementation.
Semester-VI Relational Database Management System (CS10	**CO1**-DescribeDBMSarchitecture,physicalandlogicaldatabase designs, database modeling, relational, hierarchical and network models. **CO2-**Identifybasicdatabasestoragestructuresandaccesstechniques such as file organizations, indexing methods including B-tree, and hashing. **CO3-**LearnandapplyStructuredquerylanguage.
Practical	**CO1**-ImplementBasicDDL,DMLandDCLcommands. **CO2-**Understand Dataselectionand operatorsusedin queriesand restrict data retrievalandcontrolthe displayorder. **CO3-**Writesubqueriesandunderstandtheirpurpose. **CO4-**UnderstandthePL/SQL architectureand writePL/SQL code for procedures, triggers,cursors,exceptionhandlingetc. **CO5-**Joinmultipletablesusingdifferenttypesofjoinmultiple.

B.Com.(BachelorofCommerce)	
NameofProgramme	**ProgrammeOutcomes**
B.Com.	**PO1**-Problemsolvingabilityofthestudentswilldevelop. **PO2**-Inculcate skills like communication, ethical values, teamwork,leadershipand management. **PO3**-Acquire the ability for conducting business, accountingand auditingpractices. **PO4-** The students will be ready for employment in functional areas like Accounting, Taxation, Banking, Insurance and CorporateLaw. **PO5**- Inculcate ethical values, team work, leadership and managerialskills. **PO6**- This program increases the knowledge of students which becomes abaseforentrepreneurial activities. **PO7**-Thecourse preparesthe students for teaching in schoolsand colleges. **PO8**-They goforvariousCompetitiveExaminationsin civilservices. **PO9**--Studentswillexhibitinclinationtowardspursuing professionalcourses such as CA/ CS/ CMA/CFA. **PO10**-Theyare equippedwith knowledgeto conduct research.
NameofCourse	**Courseoutcomes**
BCM101A: Punjabi	**CO1**-Knowledgeaboutthebusinessvocabulary. **CO2**-Students will feel attached with nature and environmentafter reading. **CO3**-ItwillincreasetheknowledgeaboutPunjabiculture, moralvaluesin students.
BCM101B:Historyand CultureofPunjabI	**CO-1**-Know therichhistoryandcultureofPunjabduring theearlytimesto1849. **CO2**-Understand thepolitical,social,economic,and religiousconditionsof Punjab.
BCM102:Englishand BusinessCommunication	Attheendofthecourse,thestudentswouldbeableto: **CO1**-Understand differentaspectsofcommunicationin generaland businesscommunication in particular.

	CO2 Enhancetheirthinkingabilitywhiledealingwith themesofProse. **CO3**-Theywouldbeabletounderstandthesignificanceof Literatureand Grammar. **CO4**-Students'writingskillsandreadingskillswouldbe enhanced.
Semester-I **BCM103Psychologyfor Managers**	**Atthe endofthesemesterthestudentwillbeableto:** **CO**-Havebroadunderstandingaboutbasicconceptsand techniquesof humanbehavior.
BCM104:Business Economics-I	**CO1**-Understandtheapplicationofeconomicprinciplesin businessmanagement. **CO2**-Knowledgeofbasicconceptsofthedistributionand moderntoolsof macro-economicanalysis.
BCM105:Principlesof FinancialAccounting	**CO1**-Acquire conceptual knowledge of financial accounting. **CO2**-Haveskillsforrecordingvariouskindsofbusiness transactions.
BCM106:Commercial Law	**CO1**-UnderstandgeneralCommercialLawsandBusiness Laws. **CO2**-UnderstandvariousprovisionsofCompaniesAct 2013. **CO3**-HavebasicknowledgeoftheprovisionsofIncome tax laws inIndia.
BCM 107:Principles and PracticesofManagement	**CO1**-Understandtheprocessofbusinessmanagementand itsfunctions. **CO2**-Tofamiliarizethestudentswiththedifferentaspects of managinghuman resource in the organization. **CO3**-Tounderstand thebasicconcepts,philosophies, process and techniquesof marketing.
BCM201A: Punjabi	**CO1**-Knowledgeaboutthebusinesscorrespondenceand vocabulary.

	CO2-Students will feel attached with nature and environmentafterreading. **CO3**-ItwillincreasetheknowledgeaboutPunjabi culture, moralvaluesin students.
BCM201B:Historyand CultureofPunjabinthe Colonial andPost-IndependenceTimes	**CO-1**-Developanunderstandingofthehistoryofthe regionandtheimpactofthecolonialrule. **CO2**-Understand the effectsof BritishAdministration. **CO3**-KnowaboutthePostPartitiondevelopmentsin the Punjab. **CO4**-Rehabilitationprocessoftherefugees. **CO5**-EvolutionofPunjabiSubain1966.
BCM102:Englishand BusinessCommunication	Attheendofthecourse,thestudentswouldbeableto: **CO1**-Understanddifferentaspectsofmodernforms of communication. **CO2**-TheywouldbeabletounderstandthesignificanceofLiteratureand Grammar. **CO3**-Students'businesswritingskillsand wouldbe enhanced.
BCM203: E-Commerce	**CO1**-HavefundamentalknowledgeaboutE-Commerce. **CO2**-Acquirebasicknowledgeofdifferentissuesfacedin progressandprospects of commerce in India.
BCM 204: Business Economics-II	**CO1**-Knowledgeofbasicconceptsofthedistributionand modern toolsofmacro-economicanalysis. **CO2**-Havesystematicknowledgeand criticalawareness of economictheory. **CO3**-Applyarange ofeconomictechniquestosolve businessproblems. **CO4**-Understandthelinksbetweeneconomictheoryand itsapplicationinbusiness. **CO5**-Applybasicmicroeconomicandmacroeconomic theoryto businessproblems.
BCM205:Corporate Accounting	**CO1**-Acquire conceptual knowledge of financial accounting. **CO2**-Haveskillsforrecordingvariouskindsofbusiness transactions. **CO3**-Knowledgeaboutbasiccorporateaccountingwith the relevant accountingstandards.

	CO4-Acquireconceptualknowledgeofcostaccounting andelementsofcost.
BCM206:BusinessLaws	**CO1**-AcquireknowledgeaboutgeneralCommercialLaws andBusinessLaws. **CO2**-Know the framework within which business activitiesshallbe carried out. **CO3**- Understand an issue tovarious legalandsemi-legal authorities against the government in case the legalrights of the businesshave been violated. **CO4**-knowthatsomebusinesslawsaremadetoencourage businesspersons to achieve theirgoalsfast.
BCM207:Human ResourceManagement	**CO1**-Understandtheprocessofbusinessmanagementand itsfunctions. **CO2**-Knowthedifferentaspectsofmanaginghuman resource in the organization.
BCM 301:IssuesinIndian Commerce	**CO1**-Acquirebasicknowledgeofdifferentissuesfacedin progressandprospectsofcommercein India. **CO2**-TheinformationregardingFDI&FPI'Sprovidesan insighttowards the foreigncollaborations.
BCM302:CostAccounting	**CO1**-Acquireconceptualknowledgeofcostaccounting andelementsofcost. **CO2**-Awareaboutvariouselementsofcost. **CO3**-Knowledgeaboutcostcontrolmethodslikemarginal costing, budgetary control, standard costing and break-even analysis

BCM303:CompanyLaw	**CO1**-Have knowledge about corporate laws, their provisionsandimplications. **CO2**-Understand newCompanyLawamendedin2013 followedby newpoliciesin the Act. **CO3**-Explain the framework within which business activitiesshallbe carried out. **CO4**-Knowledge of current trends, legislative &regulatorydevelopments. **CO5**-Learn about provisions related to listing requirementsinrecognizedstockexchanges. **CO6**-Provide an insight intoresolutions, registration procedures.
BCM402:Advanced Accounting	**CO1**-Have knowledge about advanced accounting problemswiththerelevantIndianAccountingStandards. **CO2**-Knowpracticalworking knowledge oftally - account creation and data entry. **CO3**-Performaccountingofsmallbusinessthroughsingle entry system. **CO4**-Knowdifferentuseofdepreciationas a meansof knowingtrue valueof asset. **CO5**-Have skills for maintenance of Partnership Accounts.
BCM404:Cost Management	**CO**-Acquireknowledgeaboutthevariousmethodsofcost determinationandtoolsandtechniquesofcostcontrol.
BCM405:Marketing Management	**CO**-Understandthebasicconcepts,philosophies,process andtechniquesofmarketing.
BCM406:Quantitative TechniquesandMethods	**CO**-Understandthevariousquantitativetechniquesand methodsusedinmanagerial decisions.

BCM501:IncomeTax Law	**CO**-Toimpartbasicknowledgeoftheprovisions of IncometaxlawsinIndia.
BCM502:Management Accounting	**CO**-StudythebasicconceptsofManagementAccounting relevantinBusinessandhelpingthestudentstounderstand the usage of Accountingin FinancialManagement.
BCM504:Productionand OperationManagement	**CO**-Understandtheconceptsofproductionandoperations managementofanindustrialundertaking.
BCM505: Entrepreneurshipand SmallBusiness	**CO1-**Understandvariousissuesinvolvedinsettingupa privateenterpriseanddeveloprequiredentrepreneurial skillsineconomicdevelopment. **CO2**-Optforentrepreneurshipandself-employmentas alternatecareer options
BCM 506:Financial Markets and Services	**CO1**-Acquireknowledgeaboutthetraditionalandmodern financialandservices. **CO2**-The students will be able to understand both the theoretical & practical role of financial management in businesscorporations. **CO3**-Understand importance of risk within context of financialdecisionmaking. **CO4-**Learntoanalyze thedifferentsourcesoffinance and theircost.
BCM603:Issuesin financialreporting	**CO1**-Understanddevelopmentsinfinancialreporting,and understandingofreportingissuesatthenationaland internationallevel. **CO2**-Knowledge about the traditional and modern financialand services.
BCM604:Socialand BusinessEthics	**CO1**-UnderstandhowtheadoptionofBusinessEthicsby organizations not only discourages corporate wrong-doing, but also contributes substantially in the achievementof corporate excellence.

BCM605:Operational Research	**CO1**-Understand the concepts and techniques of OperationsResearchforbusinessdecisionmakingandto acquirerequiredskillstosolvevariousproblemsinOR. **CO2**-Thiswillhelptounderstandvariousmathematical modelsandtechniquesthatcanbeappliedconstructively tosolvevariousproblemsinbusinessandtomake effectivebusinessdecisions **CO3**-Build capabilitiesinthestudentsforanalyzing differentsituationsinindustry/businessscenariothat involveslimitedresourcesandfindingoptimalsolution withconstraints

B.C.A(BachelorofComputer Applications)	
NameofProgramme	**ProgrammeOutcomes**
B.C.A.	**Studentwillbeableto:** **PO1**-Pursuefurtherstudiestogetspecializationincomputer. **PO2**-WorkintheITSectorasSoftwareEngineer. **PO3**-Toworkinpublicsectorundertaking. **PO4**-Pursueteachingjobinschools.
NameofCourse	**CourseOutcomes**
Semester–I **English(compulsory)-A**	**At theendofthecourse,thestudents wouldbeableto: CO1**-Comprehend the literaryaspectsof the language. **CO2**Enhance their thinkingabilitywhiledealingwiththemesof Poetry and Prose. **CO3**-Theywouldbeabletounderstand thesignificanceof Literatureand Grammar. **CO4**-Students' writing skills and reading skills would be enhanced.
Fundamentals Mathematical Statistics	**CO1**-Studentswillbeabletolearnbasictechniquesstatistical methods. **CO2**-TheywillbeabletosolvevariousFinancial,Scientificand Engineeringfield'sproblems.
ComputerFundamentals andComputerSoftware	**CO**-Studentswillbeabletounderstandthebasicconceptsof computer.
ProblemSolving Through C	**CO**-Studentisexpectedtoanalyzethereal-lifeproblemandwrite programsin'C'languagetosolveproblems.Themainemphasis ofthe course is onproblemsolvingaspect.
Semester–II **English(compulsory)-II**	**CO1-**EssayWritingSkillstraintheminfulfillingthesocial duties. **CO2-**Comprehend humanweaknessesandovercomethem. **CO3**-Letter Writingishelpfulforstudentsintheirformal interactionwith others. **CO4**-Improvementinwritingskillsalongwithbroadeningtheir social andpsychological horizon.
ComputerOrganization	**CO**-Studentswillbeabletounderstandthebasicorganizationof computer system.
FundamentalsofWeb Programming	**CO**-StudentswillbeabletodesignwebsitesusingHTML, DHML,CSS,JavaScriptandDreamweaver.

ObjectOriented ProgrammingUsingc++	**CO**-Students will beable towrite C++programs using the more esoteric language features, utilize Object Oriented techniques to design C++ programs, use the standard C++ library, andexplore advanced C++ techniques.
Semester–III Punjabi-A	**CO1**-Itprovidestheknowledgeabout thepoetsandtheirpoetry. **CO2**-Studentswillfeelattachedwithnatureandenvironment afterreading. **CO3**-ItwillincreasetheknowledgeaboutPunjabiculture,moral valuesin students. **CO4-**Withthisstudentswilllearnaboutthedifferentidiomsin theirowncommonlanguagethatisPunjabi.
InformationSystem Designand Implementation	**CO1**-Studentswillbeabletobeanalyzeanddesigninformation systemsandComputerOrientedNumericalMethods.**CO2**-Students will be able to solve various Scientific and Engineeringfield'sproblems.
ComputerOriented NumericalMethods	**CO1-**Students willunderstand the essentialtechniques of Numerical Methods. **CO2-**StudentswillbeabletosolvevariousScientific and Engineeringfields' problems.
DataStructures	**CO**-Studentwillhavecompleteknowledgeofdatastructures, thuswillbeabletousethemforsolvingrealworldproblems.
Semester–IV Punjabi-B	**CO1**-Itprovidestheknowledgeaboutthepoetsandtheirpoetry. **CO2**- Students will feel attached with nature and environment afterreading. **CO3**-ItwillincreasetheknowledgeaboutPunjabiculture,moral valuesin students. **CO4**-Studentwillbecomeabletounderstandwordsandsentence Formation
SoftwareProject Management	**CO**-Studentwillbeabletoapplysoftwareprojectmanagement techniques to manage a software project.
OperatingSystem ConceptsandLinux	**CO**-StudentswillbeabletouseLINUXoperatingsystem.
Database Management System	**CO**1-Studentswillbeabletounderstanddatabaseconceptsand canhandledatabasesoftware.
Semester–V ComputerNetworks	**CO1**- Students will be able to understand computer networks includingtransmissionmedia,hardwareandsoftwarerequiredfor computernetwork. **CO2**-Theywillalsolearnaboutvarioussecuritytechniquesused in computernetworks.
Discrete Mathematics (bca-16-502)	**CO1**-Studentswilllearnandbeabletoacquiretheknowledgeof Logic,RelationsandFunctions. **CO2**-StudentswillgettoknowaboutAlgebraicFunctionsand Graph theory.

Semester–VI **E-Commerce**	**CO1**-Studentswillbeabletounderstandtheprocessofelectronic commerceandbefamiliarizedwiththetechnologyinvolvedinit.
ApplicationDevelopment using VB.Net	**CO-** Studentswillbeabletodevelopapplicationsusingevent drivenprogrammingwithVB.Net.
ComputerGraphicsand MultimediaApplications	**CO1-**Studentswillbeintroducedtobasiccomputergraphics conceptsandalgorithms. **CO2-**Theywillalsolearnessentialconcepts usedindeveloping multimediaapplications./

Add-on-Courses	
NameofProgramme	**ProgrammeOutcomes**
Add-on-Courses	**PO1**:Enhancetheknowledgeandskillsinmorespecialised areasofaparticularsubjectbeyondcurriculum. **PO2**:Bridgetheskillgapsandprovidemoreopportunitiesfor studentsto get jobs.
ComputerBased Accounting(CBA)	**PO1**-Acquiretheabilityforconductingbusiness,accountingand auditingpractices. **PO2**-Enhanceemploymentopportunitiesinfunctionalareaslike Accounting,Taxation, Banking,Insuranceand Corporate Law. **PO3**-Inculcate ethicalvalues,team work,leadershipand managerialskills. **PO4**-Thisprogram increases theknowledgeof studentswhich becomes a base for entrepreneurialactivities.
	CO1-Learnaboutthemaintenanceofgroupsandaccountsaswell asaboutcodificationandhierarchyofaccounts. **CO2**-Haveinformationaboutvarioustypesofaccounting software usedbybusinessentities. **CO3**-KnowdatabasedesigningthroughERmodelandstructured query language. **CO4**-Understand how toview and analyse the financial statementsofafirmintally. **CO5**-Havepracticallytrainedabouttheuseoftallyin maintenanceof accounts of the firms.
Communicative English	**PO1**-Theprogrammewillempowerthestudentstoacquirejobs invarioussectors. **PO2**-Thestudentswillhaveproficiencyinlanguage. **PO3**-Theywillbesensitizedaboutprofessionalcareersi.e. teaching,mediaandcreative writing.
	Attheendofthecourse,studentswillbeableto: **CO1**-Know the relevance and importance of proper communication. **CO2**-Improvethe listeningandspeakingskills. **CO3**-Sharpen their communication proficiency as they gain practical knowledge about how to deal and interact with others. **CO4**-Raise their confidencelevel. **CO5**-Learn correct and accurate pronunciationof Englishwords as they work on fluency in English as well as proper intonation and accent of speaking. **CO6**-Enhance their writing skillsas they learn how to frame officialletters,applications,office memorandum,notices etc.

WebDesigningAnd Multi-Media	**PO1**-CareerinsoftwaredevelopmentinvariousMNCsinIndia andAbroadaswell. **PO2**-Opportunitiesforstudentstogetjobsinthefieldof programming,websiteand software development,software testingetc.
	CO1-Knowledge about the basic concepts of object oriented programming, HTML, Java Script and basic as well as advance Programmingconstructs. **CO2-**Implement the constructs and structure of the Java ProgramminglanguageinthesuccessfulcreationofJavaApplets and JavaServlets. **CO3**-Have information about the data base connectivity along with the givenfront end website or software. **CO4**-Learn about the data transfer procedures form front-end to back-end and vice-versa. **CO5**-Haveknowledgeofthissubject,theyhavethedesiredskills in Drawing, Lay outing, Typography, Lettering, Diagramming, and Photography. **CO6**-Gain knowledge to develop the layout and production design of newspapers,magazines,corporate reports,journalsand otherpublications. **CO7**-Create marketing brochures for services and products, promotional displays packaging, design distinctive logos for businessesand products.

B.A.B.Ed.(FourYearIntegratedCourse)

NameofProgramme	ProgrammeOutcomes
B.A.B.Ed	**PO1**-Topreparеprospectivesecondaryschool teachers,who are dedicated and committed to teaching profession, socially aware &concerned,morallyuprightandspirituallyoriented. **PO2**-To provide quality teacher education through a rigorous, consistent and comprehensive programme equipping with theoreticalknowledgeandpractical pursuits.. **PO3**-Develop a critical understanding of textbook lessons of individualsubjects andtheirsuitabilityforlearning. **PO4**-Purposefully use the skills of systematic observations, recordkeepingand for reflectionon teaching-learningprocess.
NameofCourse	**CourseOutcomes**
Education in Emerging Indian Society	**CO1**-DescribedevelopmentofIndianeducationfromancient periodtoanindependentnation. **CO2**-Describetherecommendationsofvariouscommissions sinceindependence. **CO3**-StatevariousprovisionsofeducationinIndianconstitution. **CO4**-Explainindetailtheroleofeducationinsocialandcultural change. **CO5**-Explaintherelationshipofeducationwitheconomicissues suchaspoverty,inequality&unemployment.
Schoolorganization and Administration	**CO1**-Differentiate between the concepts of school administration,schoolorganizationandschoolmanagement. **CO2**-Describeaschoolplantanditscomponents. **CO3**-Identifytheneed,scopeandpurposeofeducational planninginterms ofnationalandcommunityneeds. **CO4**-Acquire knowledgeof duties of schoolheadand teachers. **CO5**-Understandthe concept of institutionalplanning and prepare a institutionalplan. **CO6**-Acquireknowledgeaboutthe preparationoftimetable &maintenanceofdifferentschoolrecords andregisters.
Philosophical and SociologicalFoundations ofEducation	**CO1**-Definetheconceptofeducationandgivedetailsofits parameters. **CO2**-Identifytherelationshipbetweenphilosophyandeducation. **CO3**- Identifythe relationship betweensociologyandeducation. **CO4**-Describe the philosophy of the educational thinkers, prescribed inthe syllabus.

PsychologicalFoundation ofEducation	**CO1**-describeconceptofeducationalpsychologyandexplainits significance **CO2**-discussthe meaningof intelligence,measurement and theories. **CO3**-understand individualdifferences, theirmeaning,areas& the rolein individualdevelopment. **CO4**-understandthenatureandneedsofexceptionalchildren.
HumanDevelopment	**CO1**-describetheconceptofhumandevelopmentandits significanceforeducation. **CO2**-discussthe principlesofhumangrowthand development. **CO3**-describetheroleofeducationindevelopmentandgrowth. **CO4**-enumeratedifferentstages ofgrowth anddevelopmentin the lifespanof humanbeing. **CO5**-Describecharacteristicsfeaturesofeachstage.
SchoolCommunity Participation	**CO1**-describetheconceptofhuman development andits significanceforeducation. **CO2**-discussthe principlesofhumangrowthand development. **CO3**-describetheroleofeducationindevelopmentandgrowth. **CO4**-enumeratedifferentstages of growth and developmentin the lifespanof humanbeing. **CO5**-Describecharacteristicsfeaturesofeachstage.
CurriculumDevelopment and Evaluation	**CO1**-describethe nature andcharacteristics of curriculum. **CO2**-explainthevariousfoundations&componentsof curriculum. **CO3**-differentiateamonggoals,aims&objectives. **CO4**-differentiateamonggeneralobjectives,courseobjectives and lessonobjectives. **CO5**-statelevelsofcoursecontent.
GuidanceandCounselling	**CO1**-explainthenature andscopeof guidanceandcounselling. **CO2**- discuss the need and principles of guidance and counselling. **CO3**-understanddifferenttypesofguidance. **CO4**-explaindifferenttypesoftoolsandtechniques, theirneeds and importance. **CO5**-describe various guidance and counselling services
Technological Bases of Education and Pedagogy	**CO1**-defineeducationaltechnologyanddiscussitshistorical development. **CO2**-explaintheconcept, nature, phases,operationsand levels of teaching. **CO3**-discussconceptofteacherbehaviouranduse techniquesof modifyingteachingbehaviour. **CO4**-Explaintheconceptofevaluationanditscharacteristics.
HealthandYoga Education	**CO1**-Toenablethestudentteacherstodevelopanunderstanding ofthe importance,meaning,concept,aims andobjectivesof Health Education. **CO2**-Toenlightenthe studentteachersaboutinfectiousdiseases and theircontrol. **CO3**-Toawarethestudentsteachersaboutbalanceddiet. **CO4**-Toimpartknowledgetousegoodposturesforvarious

EducationalResearchand Statistics	**CO1**-explaintheconceptofeducationalresearch **CO2**-differentiatebetweenmethodsofeducationalresearch. **CO3**-formulatehypothesesofresearch. **CO4**-explain the applications of statistical techniques in education. **CO5**-developtheskillstocarryoutresearch.
ValueEducation	**CO1**-Describetheconceptofvaluesandvaluesystem. **CO2**-Explainvariousinterventionstrategiesforvalueinculcation in education. **CO3**-Describetoolsofvalueinculcationexplainvariousbasesof valueeducation. **CO4**-Develop a comprehensive understanding of existing classroompractices. **CO5**-Developacriticalunderstandingoftextbooklessonsof individualsubjectsandtheirsuitabilityforlearning. **CO6**-Draw linkages between various pedagogy courses and classroompractices. **CO7**-Criticallyreviewpolicyandstatedocumentsoneducation andseektoeffectideas intoclassroompractices. **CO8**-Develop and design alternative teaching – learning materials. **CO9**-Assessfactorsthatcontributetoaclassroomculture,its creationandmaintenance. **CO10**-Explore possibilities of innovation and create space for alternativepractices. **CO11**-Design, choose, organize, and conduct individual and groupactivities. **CO12**-Reflect on personal experiences of classroom management. **CO13**-To learn to set realistic goals in terms of children's learning,classroommanagement,curricularformandcontentand pedagogicpractices. **CO14**-To develop the ability to innovate within existing frameworks by alternativepractices. **CO15**-To purposefully use the skills of systematic observations, recordkeepingand for reflectionon teaching-learningprocess.

M.A.History	
NameofProgramme	**ProgrammeOutcomes**
M.A.History	**PO1**- Studentwillbeabletolearnbasicnarrativeof historical events,chronology,personalities and turning pointsof the historyofPunjab,Indiaand World. **PO2**-Develop critical ability through competing interpretations and multiple narratives of the past, offer multi-causalexplanationsofmajorhistoricaldevelopments. **PO3**-Evaluate historical ideas, arguments and points of view, presentation of a summaryofa topic inanorganized, coherent, andcompellingfashionorallyor written. **PO4**-Understandbackgroundofourreligion,customs institutions,administrationandsoon. **PO5-**Understand the present existing social, political, religiousand economicconditionsofthepeople. **PO6**-Analyze relationshipbetweenthepastandthepresent as presented in the history. **PO7**-Constructoriginal historical argumentsbasedon primaryorsecondary source material. **PO8**-Identifyanddescribethecontoursandstakesof debates and discussions among historians within defined historiographicalfields. **PO9**- Students will acquire basic historical research skills, including,effective use of libraries,archives,anddatabases. **PO10**-Acquire jobs in various sectors suchas SSC,UPSC, Banks and various academic and research institutions like ICHR, schools, colleges, tourism and archaeological department.
NameofCourse	**CourseOutcomes**
SemesterI **ThePunjab(Midfifteenthto seventeenthcenturies)**	**Attheend ofthecoursethestudentsareableto**: **CO1**-Haveknowledgeofthepolitico-administrative,social andreligiousmilieuof GuruNanak. **CO2-** Understand Guru Nanak's response to the contemporary environment and the foundation of Sikh movement. **CO2-** Know the Sikh movement under the first four successors of Guru Nanak, the phase of confrontationwith MughalStateanditsculminationunderGuruGobindSingh. **CO3-** Understand theadministrativestructure,agrarianand urban economyof the Punjab underthe Mughals. **CO4**- Acquire knowledge about the Spiritual, social and economicandpoliticalphilosophyduringthis period.

AncientIndia:AnOverview	**CO1**-HaveunderstandingofthemajorcurrentsinthestudyoftheAncientIndianhistory. **CO2-** Know the political processes that under lay the structures of the state, society and the details of socialand culturalhistory. **CO3**-Know about the richness of the Indian culture during the ancientperiod. **CO4**-Understandthebasicconceptsassociatedwiththe differentaspectsofsocio-culturallifeoftheperiod. **CO5**-Acquireknowledgeaboutthereligiousmovements, customs, traditions, languages, literature, art and architecture.
MedievalIndia:Political Processes	**CO1**-UnderstandthepoliticalprocessesduringMedieval period. **CO2**-KnowthedifferencebetweenMonarchiesand Republicsandunderstand the nature of sovereignty. **CO3**-Haveknowledgeofthepoliticalsystemsofthe NorthernandSouthernstates. **CO4**-KnowabouttheStructureofMughalGovernmentand downfallof the MughalState. **CO5**-Understand and explain the basic concepts associated withlandrevenueSystem,MansabdariSyatemandJagirdari system. **CO6**-Describe the Trade and Commerce and Monetary System of Mughals.
ModernIndia:Political Processes	**CO1**-BritishColonialisminwhichIndiacanbestudiedas a classiccaseofBritishImperialism. **CO2**-Understandandexplainthe historiographyofModern Indiai.e. approaches andinterpretationssuchasColonialist, Nationalist,Marxist,Subaltern,andGandhian. **CO3**-Know how to define the development of political institutionsin IndiaduringBritishperiod. **CO4**-DescribethestrategiesofImperialExpansionviawars and alliances. **CO5**-Analyze the growth of western education, judicial system, Land revenue system, civilservices. **CO6**- Know emergence of Indian Nationalism w.s.r.t peasant and tribal revolts, mutiny of 1857, emergence of Indian National Congress, Revolutionary movements and Feministmovements.
SemesterII PunjabintheEighteenth Century	**CO**1-Knowaboutthenotionoftheeighteenthcenturyas 'dark period' in the Indian history and the politicalprocess bywhichovera hundrednew centresofpower andnotonly the 'twelve misaldars' came up in the Punjab after the declineof the MughalEmpire. **CO2-**Acquireknowledgeabout thenewrulers,Sikhaswell as non-Sikh, in terms of their political organization, administrativearrangements,patternsofstatepatronageand the mainfeatures of urbanas wellas agrarianeconomy.

AgrarianEconomyof MedievalIndia.	**CO1**- The multi-dimensional picture of the historical changes that occurred in the agrarian economy during the medievalperiod. **CO2**-TheDelhiSultanateandMughalEmpire. **CO3**- They have in-depth analysis of the social structure, withparticular reference tothe various classes of peasantry as well as the intermediaries. **CO4**-The technological aspects of agriculture and irrigation,besides the land rightsandagrarian revolts. **CO5**-Themechanismevolvedbythestatetoextractthe socialsurplus.
U.S.A.(1820-1973)	**CO1**-TheemergenceofAmericaasaworldleaderwas substantially based on the transformation staking place in that countryas ittries toadjustitselftothe postNapoleonic worldorder of the nineteenthcentury. **CO2**- Acquire knowledge about the main currents in American history to find an understanding of that transformation.
China AndJapan(1840- 1950)	**CO1**-Understandthevariousphases ofhistoryofChinaand Japan in modern times in context of their struggle against invasionof west. **CO2**- Know the internalstruggle as wellas various efforts made within these nations whichwere directedtowards the questoftheir identitiesasimportantpowers ofthe world.
SemesterIII PunjabintheNineteeth Century	**CO1**-UnderstandaboutBritishpolicyandprogrammein Punjabandstudytheconstructionof State. **CO2-**Criticallyexamineandevaluateadministrative,social, cultural, economic developments as wellas socio-religious resurgence in the provincebetween1849-1901.
RiseandGrowthof ColonialisminIndia	**CO1**-Thebroadtrendsintheriseandgrowthofcolonialism anditsspecificforminIndiainmoderntimes. **CO2-**AcquireknowledgeofbasicsofColonialismand Imperialismand dangers of Neo-Colonialism. **CO3-**Understandthe debatesontheimpactofColonialism.

Gender RelationsinModern India	**CO1**-Thestudentwouldbeabletoknowwomen and roles,rights economicsand women'shistory. **CO2**- Have an overview of gender relations in 19th and 20th century India. **CO3**- Understand the subject anditsstructure,firstunitdeals with the different perspective on writing of the subjectand backgroundisgivenofthepositionofwomeninancientand medievalIndia. **CO4** Acquire knowledge the positionof womenduringthe colonialperiod. **CO5**- Understandthe initiatives andstrategiesemployedin post-independence period tobetter the conditionof women inevery sphere. **CO6**-Identify KeyConcepts and Terminologyof Gender. **CO7**-DescribeGenderStudiesasaDisciplineandclassify Indian Societiesthrough Gender Perspective.
ConstitutionalDevelopments inModernIndia	**CO1**-ThesignificanceoftheConstitutionalhistory. **CO2**-Understand the Britishpolicies andpoliticalstructure in ColonialIndia. **CO3**-ThestudentwillknowthevariousActspassedbythe BritishParliamentregardingIndia. **CO4**-Theywillalsoexplore the efforts of the Indians inthe making of the Constitution and the working of Indian ConstituentAssembly. **CO5**-They will be acquainted with the Indian Constitution of 1950.
SemesterII PunjabintheTwentieth Century	**CO1**-KnowaboutthehistoryofPunjabfrom1901to1966. **CO2**- Understand the agrarian policies and legislations passed by the British Raj in these years and how these affected the Punjab Peasantry. **CO3**-Acquire knowledge about the discontentment of PunjabPeasantryanditsjoiningof theNationalMovement. **CO4**- Know Punjab's participation in the various phases particularlythephase ofpartitionandhowtheprovincewas furtherbifurcated in1966.
HistoryandHistoriography	**CO1**- Understand the meaning, nature, scope and purpose of history with emphasis on the value and interpretation in historyin criticaland comprehensivemanner. **CO2**- Analyse the various trends in Indian historiography and the changes inthe stance of historians throughtimes as well as their impactonhistorywriting. **CO3**-Understand the excellent works of many scholars, philosophers,theoristsandcritics. **CO4**-Learntoinvestigaterationallythetruthsandprinciples of knowledge. **CO5**-Capableofperceivingthepresentbyexploitingthe pastunderstanding. **CO6**-Understandtherelationship ofhistorywithother disciplines andknowthathistoryisthecentralsocial

	sciences.
ReligiousDevelopments In MedievalIndia	**CO1**-Thedevelopmentsindifferentreligioussystems during the medieval period of Indian history and the continuityandchange withinShaiva,Shakta andVaishnava systems. **CO2**-They also know about Krishna bhaktiandits regional manifestations in Maharashtra, Bengal, Assam, Rajasthan and Gujarat. **CO3**- They also understand Islam in its various forms and monotheistic movements started by Kabir, Ravidas, Dadu and GuruNanak.
Peasants Movements in ModernIndia	**CO1**-Thestudentswillbeabletounderstandthecomplex issuesofpeasantmovementsinIndiainthetwentieth century. **CO2**-UnderstandtheBritishagrarianpoliciesinColonial India. **CO3**-ThestudentwillknowthevariousActspassedby the BritishParliamentregardingagricultureinIndia. **CO4**-They will also acquire knowledge of peasant agitationsduringtheperiod. **CO5**-Theywillbeacquaintedwiththeformationofpeasant associations and their participation in the National Movement

NameofProgramme	ProgrammeOutcomes
M.A.Punjabi	**PO1**-Toimpart basic knowledge of Punjabilanguage and literature. **PO2**-Toenablestudentsto acquirejobsand servicesinvarious sectors. **PO3**-To enhanceefficiencyofusingaccurategrammarand functionalPunjabiin variouscontexts. **PO4**-TofamiliarizestudentswithPunjabiliterature. **PO5**-Todevelopaestheticsensein students. **PO6**-TopasstheeligibilitycriteriaforM.A.(Punjabi). **PO7**-Tosensitizestudentsaboutprofessionalcareersi.e. Teaching, Media,Creative and Professionalwritingetc. **PO8**-ToinculcateHumanValuesandEthicsamongyouththrough PunjabiLiterature. **PO9**-Toequipstudentswithknowledgetoconductresearchon Punjabilanguage,literatureand culture.
NameofCourse	**CourseOutcomes**
smstrpihlw prcwpihlw:- mDkwlIpljwblswihqdw ieiqhs	1. ividAwrQlAWnUMpMjwblswihqdlieiqhwskwrlqoNjwxkr vwadwh[2. mDkwldwieiqhwsAqysiBAwcwrsdrBnUMpySkrdwh[3. swihqdl klvf,nwQjglswihq,s&lswihq,blr kwiv swihqAqylkkwivswihqbwrjwxkwrlidwdwh[4. grmiqAqyBgqlkwivDwrWbwrividAwrQlAWnUMjwxkrl iddwh[
prcwdljw:- swihqisDwqsnwqnlkwivSs qrAqpljwblAwlcnw	1. ividAwrQlAWnUMpMjwblswihqdjsDwqWqoNjwxkrvwadwh[2. BwrqAqyp`CmlkwivSsqrdwinrpxkrdw[3. pMjwblAwlcnwbwrjwxkwrliNdldw[4. rpvwdl,mwrksvwdlAqy srcnwvwddw ivsQwrAiDAYn krvwadw[
prcw qljw:- mDkwlIpljwblkwivAwpSn–1	1. ividAwrQlAWnUMmDkwlIkwivqoNvwik&krvwadwh[2. mDkwldyieiqhwsAqyisDwqWbwrjwxkwrlidldwh[3. grimqkwiv,s&lkwiv,ikswkwivbwrjwxkwrlidldwh[4. c0xvjNiqMnmDkwlIkvlAWdlAWcxvlAWrcnwvldw ivsQwrswihqAiDAYn krdw[
prcwc0Qw:-pljwblnvldw AiDAlnAwpSn–1	1. ividAwrQlAWnUMpMjwblnvlbwrjwxkwrlidldwh[2. pMjwblnvldyieiqhwsAqypRivrqlAWbwrjspStkrdw[3. 1960 qoNpihldjiqMnc0xvjnnvlkwrldlAW rcnwvwrwhlNahnWdls^SlAqAqyrcnwidStldlpySkwrlkrdw [4. c0xvjNnvlwrwhlNsrvp`KlidStlkxdlpySkwrlkrdwh[
smstrdljw prcw pjv:- AwDinkpljwblswihqdw	1. ividAwrQlAWnUMAwDinkpMjwbl swihqdwieiqhwsbwrjwxkwrlidldwh[

ieiqhs	
	2. pMjwbl swihqivcAwDinkqWdw AwrBAqyivkisdrpyS krdw[3. 1850qoN 1900 q`krciksw,s&l,vwrAqy jignwmWswihqbwrjdsdwh[4. 20 vINsdldlAwDinkpMjwblkivqw,glpAqyvwrqkdw AiDAYnkrdwh[
prcwCjvW:- AwDinkpCmlkwivSsqrAqivhwrkAwlcnw	1. ividAwrQlAW nUMAwDinkp`Cml kwiv SsqrAqy ivhwrkAwlcnwbwrjwxkwrlidldwh[ 2. p`Cml swihqrUpw(rsl rjpvwd,nv-AmrlklskL,srcnwvwdAqy aiqrsrcnwvwd)dw ivsQwrswihqigAw idldw[3. mwrksvwdlPlsPdwivSlSxkrdwh[4. ivhwrkAwlcnwrwhlNividAwrQlAWivc Awlckbxndl XgqwnUMpYdwkrdwh[
prcw sqvW:- mDkwlIpjwblkwiv–II , ApSn–1	1. ividAwrQlAWnUMmDkwlIpMjwbl kwivdwspUrnigAwnidldwh[2. mDkwldyiqMnpRisDkvlAWdls^slAqAqyrcnwvwbwrjdsd wh[3. sbiDqkvlAW dw ivSlSxAqy Sp`stl krndysmrQbxwaidwh[4. mDkwlIkwiv cqnw,mDkwlIpRglqk AqyibrqWqk kivqw djpRmUKlCxAqypRivrqlAW bwrjxkwrlidldwwh[
prcw ATvW:- pjwblnwvldwAiDAn,Aw pSn -1	1. ividAwrQlAWnUMpMjwblnvldwspUrnigAwnidldwh[2. ibrqWq qy ibrqWqkwrl,pMjwbl nvl,isDq,ieiqhwsAqy pRivrqlAW bwrjwxkwrlidldw[3. 1960 qoN bwAddjqMncxvNnvlUAqy nvlkwrldw AiDAYn krdw[nwvlWrwhlNsmwijk,AwriQk,rjnliqkidSWnUMibAwn krdwh[
smstrqljwprcwnd vW:-BwSw ivigAwnAqpjwblBwSw	1. ividAwrQlAWnUMBwSwivigAwnAqypMjwblBwSwdwspUrnigAwni dldwh[2. pMjwbl BwSw dl srcnwDnlivigAwnAqy rpivigAwn bwrjdsdwh[3. BwSwdyBrqlAqyp`CmlicqkWdlivcwrDwrbwrjdsdw[4. BwSw dy ivhwrkAiDAYn rwhlNDnlSbd Aqy ArQ dl jwxkwrlidldwh[

prcwdsv:- siBAwcwr,lkDwrwAqpljw blsiBAwcwr	1. ividAwrQlAW nUMsiBAwcwr,lkDwrwAqy pMjwbl siBAwcwrdwspUrnigAwnidldwh[2. pMjwblsiBAwcwrdyivkwsAqyinkwsbwrjwxkwrlidldwh[3. siBAwcwrpRqlBwrqlAqyp`CmlicqkWdlivcwrDwrbwrjdsd wh[4. lkDwrwdlpRikqlAqyivSsqwvwbwrjwxkwrlidldwh[
prcwigAwrvW:-AwDink	1. ividAwrQlAWnUMAwDinkpMjwblkivqwdwspUrnigAwn
pljwblkivqw-1,ApSn-1	iddwh[2. AwDinkqwAqyAwDinkpMjwblkivqwAqypRmwKkiv-DwrwvW bwrjdsdwh[3. AwDinkkvlAWdlklmrwhlNsmkwllivISAwdl pySkwrlkrdw h[4. cxvNiqMnAwDinkkvlAWdlAWcxvlAWrcnvlbwrjdsdwh[
prcwbwrivW:- pljwblntkAqrjgmicdwA iDAn-1, ApSn-1	1. ividAwrQlAWnUM pMjwbl ntkAqy rjgmicdwAiDAYn krvwadwh[2. pMjwbl ntk qy rjgmicdwisDq,ieiqhisqy pRivrqlAWbwrjdsdwh[3. cxvNiqMnnwtkkwrWbwrjivsQrpUrvkjxkwrlidldwh[4. cxvNiqMnnwtkwbwrjivsQrpUrvkjxkwrlidldwh[
smstrc0Qw prcwqjrivW:-BwSw ivigAn,pljwblBwSwAqjg rmiKlilpI	1. ividAwrQlAWnUM pMjwbl BwSwdjsrcnw,vwk ivigAwnAqy ArQ ivigAwn bwrjwxkwrlidldwh[2. pMjwblBwSwdyieiqhiskivksbwrjdsdwh[3. grmKlilpldlsrcnw,pRwcInqw,pMjwbl Sbd jiVwdy pRmwxlkrndy bwrjdsdw[4. BwrqlAwirAwel BwSw pirvirbwrjivsQrpUrvkjxkwrlidldw[
prcw cldvW:- pljwblIkDwrwAqjlksihq	1. ividAwrQlAWnUMpMjwblIkDwrwdwAiDAYnkrvwaxwh[2. pMjwblIkswihqbwrjdsdwh[3. lkswihqdlpRikrql,ivSsqwvWAqysiBAwcwrdymhiqvbwrj dsdwh[4. pMjwbldylkDwrwqyKjkrnvwlicqkWnljx-pCwx krvwadwh[
prcwpldrvW:- AwDinkpljwblkivqw- II,ApSn-1	1. ividAwrQlAWnUMAwDinkpMjwbl kivqw bwrjwxkwrlidldwh[2. isDwq,ieiqhis,pRivrqlAWbwrjdsdwh[3. iqMnsmkwllpMjwblkvlAWbwrjwxkwrlidldwh[4. iqMn smkwllpMjwblkvlAW dlAW rcnvWbwrjivsQrpUrvkcrcwkrdwh[

prcw slv:- **pjwbIntkAqrgm** **cdw AiDAn,ApSn–** **1**	1. ividAwrQIAWnUM pMjwbI ntkAqy rgmcbwrjxkrlidMdw h[2. isDq,ieiqhs,pRivrqIAWbwrdsxwh[3. iqMnsmklpMjwbIntkbwrjxkrlidMdwh[4. iqMnsmklpMjwbI ntkkwrdIAWnt-rcnvbwrivsQrpUrvkcrckrdwh[

M.A.English

NameofProgramme	**ProgrammeOutcomes**
M.A.English	**PO1**. To broaden social, political, economic and literary perspectives. **PO2.**Inculcationofmoral andethical values necessarytobecome goodhumanbeings. **PO3**.Toenhance analyticalfacultiesofstudents. **PO4**.Skilldevelopmentthroughvariousactivities. **PO5**. Handson research. **PO6**. Platform toparticipateindifferentactivitiesto buildself-confidence. **PO7.**ChronologicalknowledgeofEnglishliterature. **PO8**.Tobe equippedtodevelopalinkwith the lifeofpeopleof differentcultures. **PO9.**Toimproveabilityofobservationandstudyhumanmind betterthanothers. **PO10**.Knowledgeofliterarytheoriesbothclassicalandrecent. **PO11.**Knowledgeofworkswritteninregional languages. **PO12.** Efficacyinthe use oflibraryfacilities andinternetsources. **PO13.** Acquaint the students with alternate sources along with texts (likemoviesbased on texts). **PO6**-They will be sensitized about professional careers i.e. teaching, police,banking,army, mediaandcreative writing.
NameofCourse	**CourseOutcomes**
Semester–I **LiteraryMovements**	**Attheendofthecoursethestudentsareableto:** **CO1-**Haveindepthunderstanding of majorliterary movements suchasclassicism,romanticismand realism. **CO2-**Understandingofvarietiesofliteraryarticulation.**CO3**–Havehistoricalandconceptual understandingof various literarymovements. **CO4**-Efficacyinunderstandingtheprimarytexts.

ApproachestoLiterary Criticism-I	**CO1**-Knowledgeofvariousapproachesto literature. **CO2**-Abletoidentify majorcriticalmovementsandtheir historicalcontexts, **CO3**-Understandimportanttheoreticalmethodologiesby summarizingthe theoretical concepts or arguments. **CO4**-Knowhowtoapplytheseconceptsinaclosereading ofa literarytext. **CO5**-Abletouseonlinedatabasetodefinekeytermsandtrace implicationsin source texts. **CO6**-Strengthenandenhancecriticalreading,writingand interpretation.
BritishLiterature-I	**CO1**-Haveindepthunderstandingofvariousliteraryperiodsand literarygenresdominantinanyparticularage. **CO2**-KnowledgeofhistoryofEnglandandotherfamous movementsthat affectedsociety. **CO3**–Knowledgeofbiographyofprescribedwriters. **CO4**-Understandingofcausesandeffectsoftransformationof society and literaryworks. **CO5–**Acquaintancewithencyclopaedias. **CO6**– Understandingofgeographicallocationofdifferent countriestowhichthe prescribed writers belong. **CO7**–Abilitytodomoviereviews. **CO8**– Deepunderstandingofhumanbehaviourandlifeatlarge. **CO9** – Understandingdifferent theoretical perspectives to analyzetexts. **CO10**–Abilitytogatherinformation followingdifferentways of learning.
BritishLiterature-II	**CO1**-understandingofvariousliteraryperiodsandliterary genresdominantinanyparticularage. **CO2**-KnowledgeofhistoryofEnglandandotherfamous movementsthat affectedsociety. **CO3**-IntroducedtoromanticismingeneralandEnglish Romanticismin particular. CO4-Understanding ofhistorical,cultural,politicalandaesthetic milieuofthe time.
Semester–II LiteraryMovements	**CO1**-Indepthunderstandingofmajorliterarymovementssuch asclassicism,romanticismandrealism. **CO2**–Understandingofvarietiesofliteraryarticulation. **CO3**– Havehistoricalandconceptualunderstandingofvarious literarymovements. **CO4**-Efficacyinunderstandingtheprimarytexts.
ApproachestoLiterary Criticism-II	**CO1**-Understandingofvariousapproachestoliterature. **CO2**-Abletoidentifymajorcriticalmovementsandtheorists. **CO3**-Understandimportanttheoretical methodologiesby summarizing the theoreticalconcepts or arguments. **CO4**-Knowhowtoapplytheseconceptsinaclosereadingof a literarytext. **CO5**-Abletouseonlinedatabasetodefinekeytermsandtrace implicationsin source texts. **CO6**-Enhanceanddeepencriticalreading,writingand interpretation.

BritishLiterature-III	**CO1**-Indepthunderstandingliterarygenresdominantinthe VictorianPeriod(1832-1901) **CO2**-KnowledgeofhistoryofEnglandandotherfamous movementsthat affectedsociety. **CO3**–Knowledgeofbiographyofmajorwritersandtextsofthe age. **CO4**-Understandingofcausesandeffectsoftransformationof society and literaryworks. **CO5**–Deepunderstandingofhumanbehaviourandlifeatlarge.
	CO6–Understandingdifferenttheoretical perspectivesto analyzetexts. **CO7**–Abilitytogatherinformationfollowingdifferentwaysof learning.
BritishLiterature-IV	**CO1**-Knowledgeofliterarygenresdominantintwentiethcentury. **CO2**-Understandingofcausesandeffectsoftransformationof societyandliteraryworks. **CO3**–Deepunderstandingofhuman behaviourandlifeatlarge. **CO4**–Understandingdifferenttheoreticalperspectivestoanalyze texts. **CO5**-Able to understand the ways in which political,historical, economic, scientific, intellectual, environmental, social and culturalevents have shapedthe artandliteratureof the time.
Semester–III CriticalTheory-I	C**O1**-Introducedtothecore textsrepresentingarange ofliterary theory. **CO2**-Understandtheimpactofliterary theory onthestudy of literature. **CO3**-Knowledgeoftheevolutionofliterarytheories. **CO4**-Enhancethecriticalthinkingofthestudents. **CO5**-Abletoanalyseandinterpretliteratureonthebasisof theories.
Post-ColonialLiterature-I	**CO1**–UnderstandingtheconceptofColonialism,Post-colonialismandImperialism. **CO2**–Knowledgeoftheexploitationsexperiencedbypeoplein colonizednations. **CO3**–Awarenessabouttheconditionofwomeninthecolonies.**CO4**–Abilitytochoosebetweengoodandbad. **CO5**–Knowledgeofdifferentgenres. **CO6** – Understandingthe richcultureofcolonizednations. **CO7** – Developmentofabilitytocomparepastandpresent. **CO8** – Knowledgeof prescribedtexts and theirwriters. **CO9**–AnalysisofDalitliterature. **CO10**–Abilitytoanalyzetheprescribed texts.

IndianWriting	**CO1**-AcquaintedwiththediverserangeofIndianwritingin English. **CO2**-AbletounderstandkeyissuesandthemesinIndian writingsinEnglish. **CO3**-Knowledgeofthestructuralandstylisticinnovationsin Indianwritingsin English. **CO4**-DeepeninsightintofeminisminIndianwritinginEnglish. **CO5**-Understandcolonialismaswell asdisillusionment ofpost-IndependenceIndia.
AmericanLiterature-I	**CO1**-HaveunderstandingoftheAmericanLiteraryTradition **CO2**-AbletoexplorethevarietyofAmericanLiteratureoverthe course of the 20thcentury **CO3**-GetfamiliarwiththeworksofacclaimedwriterswhohaveshapedthecontoursofAmericanLiterature
	CO4-Understanding of critically acclaimed novels of the American writers which serve as literary cultural landmarks in American History **CO5**- Knowledge of the formaland aesthetic concepts and terms related to historical and cultural aspects of American Literary History. **CO6**-Able to know diverse traditions ranging from African American , Jewish American, Mexican American and Native American backgrounds
Dissertationwork	**CO1**-Developwritingskills. **CO2**-Learntointegratewritingandthoughtsandabletoapplythe traditionsofacademic writingcorrectly. **CO3**-Havethetrainingofthebasicsofresearchanddissertation writing. **CO3**-Cultivateanurgeforresearch.
Semester–IV CriticalTheory-II	C**O1**-Abletoconceptualizelargerdiscoursesofhistory, colonialism,genderandideology. **CO2**-Understandtheimpactofliterarytheoryonthestudyof literature. **CO3**-Knowledgeoftheevolutionofliterary theoriesandthe subsequentdevelopmentsinthe field. **CO4**-Enhancethecriticalthinkingofthestudents. **CO5**-Able toanalyseandinterpretliteratureonthebasisof theories.
Post-colonial Literatures-II	**CO1**–UnderstandingtheoryofPost-colonialism. **CO2**–Knowledgeoftheexploitationsexperiencedbypeoplein colonizednations. **CO3**–Awarenessabouttheconditionofmarginali.e.women and dalitsinthe colonies. **CO 4** – Understandingtherichculture ofcolonizednations. **CO 5** – Developmentof abilitytocomparepastandpresent. **CO6** –Knowledgeof prescribedtexts andtheirwriters.
IndianWritingin Translation	**CO1**-HaveanoverviewofthevariousphasesofIndianwritings. **CO2**-Introducedtoamagnificentcanvasofthemulti-lingual, multi-culturaland multi-dimensionalbody ofIndianliterature. **CO3**-KnowthepluralisticaspectsofIndiancultureandidentity.. **CO4**-Acquireadeeperunderstandingofthevariedinfluenceson the terrainof Indianwritinginatangibleway.

AmericanLiterature-II	**COI**HaveunderstandingoftheAmericanLiterary Tradition **CO2**-AbletoexplorethevarietyofAmericanLiteratureoverthe course of the 20thcentury **CO3**-Knowledgeofthebreadthanddiversityofrecent contemporaryAmericanFiction **CO4**-Understanding of critically acclaimed novels of the Americanwriterswhichserveasliteraryculturallandmarksin American History
	CO5- Knowledge of the formaland aesthetic concepts and terms related to historical and cultural aspects of American Literary History **CO6**-Understanding of a rich heterogeneity through the emergence of a wide spectrum of writers from divergent ethnic groups possessing unique and distinctive traditions andstrands of thought **CO7**-Haveinterestinginsights intothedynamicsofrace,ethnicity, socio-economicclass,sexualityand gender.
Skill Enhancement/Social Outreach	Thispaperis activity-orientedsothatallthefourskills(reading, listening,writingandspeaking)couldbeenhanced. **CO1**-Studentscanlearntowritedifferentliterarygenresifthey choose creative writing. **CO2**-.Translation willenablethemtomakeliteraturewritten in vernacular accessibletopeoplewhounderstandEnglish. **CO3**-.Studentscanalsogainexperienceofdirectionofdramaby stagingplaysandbymakingshortfilms. **CO4**-.StudentscanservethecommunitybyteachingEnglishto financiallyweakstudentsstudying in schools. **CO5**-.Theycancollectliteratureofaparticulararеaandknow abouttheircultureandtraditions.

M.A.Political Science	
NameofProgramme	**ProgrammeOutcomes**
M.A.PoliticalScience	**PO1**-ThePost-graduatesinPoliticalSciencearеacquaintedwith the politicalsystemof Indiaanddifferentcountries ofthe World. **PO2**-Thecourseprepares the students forteachinginschoolsand colleges. **PO3**-TheygoforvariousCompetitiveExaminationsincivil services. **PO4**-Theyget numerouscareeropportunitiesinlegal studies. **PO5**-They are enabledtoacquirejobsand servicesinvarious sectors. **PO6**-ThePost-graduatesin PoliticalSciencepasstheeligibility criteriafor higherstudiesin PoliticalScience. **PO7**-Theyareequippedwithknowledgetoconductresearch.
NameofCourse	**CourseOutcomes**
Semester-I WesternPolitical Thought-I	**CO1**-Attheendofsemesterthestudentsareintroducedtothe majorthemesofwesternpoliticalthought. **CO2**-Theywillhaveanin-depthstudyofthekeythinkersofthis tradition.
KeyConceptsinPolitical Analysis	**CO1**-Thestudentsareintroducedtothekeyconceptswhichare thebuildingblocksofpoliticalanalysis. **CO2**-Each concept will be studied in terms of the maindebates overitsnatureandscopeinthedisciplineanditsrelationshipwith otherconcepts. **CO3**-Afterdoingthiscourse,thestudentwillbeabletodiscern theconceptualdebateswhichunderliepoliticalphenomena.
IndianPolitics: InstitutionsatWork (compulsory)	**CO1**-HaveanunderstandingofIndia'spoliticalandeconomic processes. **CO2**-Know relevant constitutional and institutional aspects. **CO3**-Have an in-depth analysis of the way the constitutional provisions have been put into practice and also by making an attempt to explore the core ideas that guided the constitution- makers during the deliberations in the Constituent Assembly.**CO4**-Make them aware of the text of the Constitution of India, important debates and the way the institutions have workedover the last more than six and halfdecades.
InternationalRelations: AnHistoricalOverview	**CO**-Thestudentswouldbeprovidedanhistoricaloverviewof major developments in International Relations since the beginningofthetwentiethcentury.

Semester-II WesternPoliticalThought (II)	**CO1**-Thestudentswouldbeintroducedtothemajorthemesof westernpoliticalthought. **CO2**-Theywouldhaveknowledgeofthekey thinkersofthis tradition.
ComparativePolitics-I: UnderstandingAdvanced IndustrialSocieties	**CO1**-Thestudentswouldbefamiliarwithwithrecentdebatesand theoriesconcerningadvancedindustrialsocieties. **CO2**-Theywouldunderstandtheseinacomparativeframework.
Indianpolitics:Political Processes(Compulsory	**CO1**-ThestudentswouldbeintroducedtopoliticsinIndiaasit hasevolvedafterdecolonization. **CO2**- They would have an understanding of the way in which political processes in the largest democracy of the world have unfoldedin varyingforms. **CO3**-Theywouldhaveknowledgeof theissuesrelatedtotheway democratic politics in India has evolved and been shaped in an underdeveloped, multi-ethnic setting along the lines of caste, class,andlinguisticandreligiousidentities. **CO4**-They would know the way India's democratic state has fared in promoting economic development, both growth and equity.
TheoriesofInternational Relations	**CO1**-Haveanunderstandingofthemajortheoriesin InternationalRelations,coveringtheentiredisciplinaryspectrum frommainstream approachessuchasrealism,liberalismand constructivismtocritical approachessuchaspost-colonialism, post-modernismand feminism. **CO2**-Theyabletothink creativelyandcriticallyin searchof 'global'InternationalRelationsthatisinclusiveofnon-Western perspectivesand traditions.
Semester-III IndianPoliticalThought (Compulsory)	**CO**- Thestudentsareintroducedto differentdiscoursesinthe domainofIndianPoliticalThought.Itincludeshistoricalroots, medievalsocio-culturaltraditions,renaissanceandnationalist narratives.
ComparativePolitical Systems With special ReferencetoUSA,UK, China,Japan and Switzerland(Compulsory)	**CO**- The student is familiarizedwith key issues and debate in comparative politicswith specialreferenceto USA,UK,China, Japan and Switzerland.
PublicInternationalLaw-I	**CO**-Thestudentisabletoknowthefundamentalsandvarious otheraspectsofPublicInternationalLaw.
PublicAdministration	**CO**-Thestudentsisintroducedtodifferentaspectsofpublic administrationwith specialreferencetoIndia.

Semester-IV IndianPoliticalThought (Compulsory)	**CO**-Thestudentisabletoknowthemajorthemesof Indian Political Thought particularly during the Indian National Movementthroughastudyofthecontributionofkeythinkers duringthisperiod.
ForeignPolicyofIndia (Compulsory)	**CO1**-KnowtheelementsandthemesofIndianforeignpolicy. **CO2**-UnderstandIndia's growingassertiononthe worldstageas an important internationalactor is assessed inthe lightofitsrole in variousglobalregimes.
Decentralized Governance and Local Level Institutions in India	**CO**1-Thestudentisfamiliarizedwiththeconceptofdecentralized anddemocraticgovernanceinIndia,boththeoreticallyandatthe level ofinstitutionalfunctioningatthe locallevel. **CO2**-Theyarealsoabletounderstandtheprocess ofdemocratic governanceatthegrassroots.
PublicInternationalLaw-II	**CO**-Thestudentsareintroducedto certain specificsubjectsand therecenttrendsofPublicInternationalLaw.

M.Sc.(InformationTechnology)

NameofProgramme	ProgrammeOutcomes
M.Sc.(Information Technology)	**Studentswillbeableto:** **PO1**-Pursueresearchinthefieldofcomputerscienceand applications. **PO2**-Work inthe ITSector asSoftware Engineer. **PO3**-Toworkeffectivelyinpublicsectorundertaking. **PO4**-Pursueteachingjobsinschoolsandcolleges.
NameoftheCourse	**CourseOutcomes**
Semester-I **LinuxSystem Administrationand Programming**	**At the endof course the student willbe able to:** **CO1**-WorkintheLinuxenvironmentforLinuxserver administration **CO2**-Writetheshellprograms,PERLprogramsandC-program withsystemcalls.
SoftwareEngineering	**CO1**-Useprincipals,concepts,methods,andtechniquesofthe softwareengineeringapproachtoproduce qualitysoftware. **CO2**-Applysoftwareengineeringprinciplesandpracticesinthe planningand developmentof anactualsoftwareproduct.
ComputerAlgorithm	**CO1**-Studentswillbeabletounderstandalgorithmsandgive theoreticalestimatesfortheresourcesneededbyanyalgorithm. **CO2**-KnowaboutAnalyzeAlgorithms. **CO3**-Theyhaveanempiricalapproachtogaugethecomparative performanceofagivensetofalgorithm. **CO4**.Understandthedifferentproject
OperatingSystem Concepts	**CO1**-StudentwillbeabletoManagevariousprocessesanduse theschedulingalgorithms. **CO2**-Handlethedeadlockconditions. **CO3**-Managethefilesonthediskwitheffectiveoutcome.
Semester-II **AdvanceJavaand NetworkProgramming**	**CO1**-StudentwillbeabletoCreateenterpriseandstandard applicationsJava. **CO2**-Developwebapplicationswithdatabasesupport. **CO3**-Developclientserverbasedapplication.
E-Commerceand EmergingTrends	**CO**-StudentswillbeabletounderstandtheconceptsofE-commerce and EmergingTechnologiessuchas Parallel Computing,GridComputing,MobileComputingandConcept of BigData.

AdvancedDatabase Programming&MySQL	**CO**-Studentswillbeabletounderstand theadvancedconcepts of DBMS and workas DatabaseAdministrator.
ArtificialIntelligence	**CO1**-StudentwillbeabletoApplystandardAltechniquesto solve problems. **CO2**-CharacterizetheknowledgeAcquisition. **CO3**-Differentiatevariousexpertsystems. **CO4**-WriteprogramsofAlusingLISP.
Semester-III NetFrameworkandC#	**CO**-Studentswillbeabletounderstandanddevelopsoftware projectsinC# on NETplatform.
TheoryofComputation	**CO**-Studentswillbeabletounderstandandreproducethe abstractconcepts of Theory of ComputerScience.
ComputerGraphics	**CO1**-Studentwillbeable toImplementthe principalsand commonlyusedparadigmsandtechniquesofcomputer graphics. **CO2**-UseOpenGLproficientlyusingC/C++.
Systems Approach to Managementand OptimizationTechniques	**CO**-Studentswillbeabletodevelopoptimizationtechniquesin thefieldof computerscienceandapplications.
Semester-IV MajorProject	**CO**-Studentswillbeabletodevelopapplication/system softwareinindustrial/commercial/scientificenvironment.

MasterofCommerce	
Nameof Programme	**ProgrammeOutcomes**
MasterofCommerce	**PO1**-ProblemSolvingabilityof thestudentswilldevelop withthehelpofthisprogram. **PO2**-It inculcates skills like communication, ethical values, teamwork,leadershipand management. **PO3**-Acquire the ability for conductingbusiness,accounting and auditingpractices. **PO4-** The students will be ready for employment in functional areas like Accounting, Taxation, Banking, Insurance and CorporateLaw. **PO5**- Inculcate ethical values, team work, leadership and managerialskills. **PO6**- This program increases the knowledge of students which becomes a base for entrepreneurial activities. **PO7**-Thecoursepreparesthestudentsforteachingin schools andcolleges. **PO8**-TheygoforvariousCompetitiveExaminationsincivil services. **PO9**--Studentswillexhibitinclinationtowardspursuing professionalcourses such as CA/ CS/ CMA/CFA. **PO10**-They are equipped with knowledge to conduct research.
NameofCourse	**Courseoutcomes**
Semester-I **Managerial Economics**	**CO1**:knowtheconceptsofmicro–economictheoryand their useinbusinessdecisionmaking. **CO2**:Usevariousconceptstodealwithbusinessproblemsin a globaleconomicenvironment.
QuantitativeMethods ForBusiness	**CO1-**Thestudentswillbeacquaintedwithsomeofthe important statistical techniques for managerial decision making. **CO2-**Theywillalsoknowtheirapplicationstobusinessand economicsituations.

ModernAccounting Theory&Reporting Pactices	**CO1**-Thestudentswillhaverequiredknowledgeof Internationalfinancialreportingstandardsandpractices. **CO2-** They have a clear conceptual understanding of the IFRS and possess sufficient knowledge expected out of an expert.
OrganisationTheory andBehaviour	**CO1**-Developatheoreticalunderstandingaboutthestructure andbehavioroforganizationasitdevelopsovertime. **CO2-**Capableofrealizingthecompetitivenessforfirms.
Marketingand Production Management	**CO1**-Thestudentswillbefamiliarizedwiththebasic conceptsandprinciplesofmarketing. **CO2**-Developtheirconceptualandanalyticalskillstobeable tomanage marketingoperationsof a businessfirm. **CO3**- knowledge regarding reduction and management techniques, process, tools, and acquaint the students withthe knowledgeofmarketingfunctions,techniquesandstrategies.
Management InformationSystem	**CO1**-Thestudentswillhaveacomprehensiveoverviewof Managementinformationsystems(MIS). **CO2**- They willbeableto exploretechnical,strategicand tactical issuesrelated to MIS. **CO3**-UnderstandBasicconceptsinanalyzinganddesigning informationsystems.
Semester-II **BusinessEnvironment**	**CO1**:Acquaintedwiththeconceptsofmacro–economics and the macro environment inwhicha business organization operates. **CO2-**Capable of analyzing and understanding the macroeconomic policies of the government implemented from timeto timeand assess their impact on business.
Research Methodology in Commerce	**CO1-**Knowledgeaboutvarious stagesoftheresearch processes and their application in Commerce and ManagementEducation.

	CO2-Knowtheconcept,toolsandtechniquesofmarketing research and developing their skills to be able to apply researchtechniques toaid marketingdecisionmaking. **CO3-**Understand the concepts and techniques of Operations Research for business decision making and to acquire requiredskillsto solvevariousproblems.
Financial Managementand Policy	**CO1-**Thestudentswillbeacquaintedwiththebasic analyticaltechniquesandmethodsoffinancialmanagement of businessfirms. **CO2-**Haveexposuretocertainsophisticatedandanalytical techniquesthatareusedfortakingfinancialpolicydecisions.
BusinessPolicy& StrategicManagement	**CO1-**Developanunderstandingofthebasicinputsinmaking andimplementingcorporatestrategicdecisionsand alsobe familiarized with the issues andpractices involved. **CO2-**Learnskillsnecessarytocreate,plan andcontrolanew Enterprises.
Semester-III **TaxPlanningand Management**	**CO-**Thestudentswillbefamiliarizedwithmajorlatest provisions of the Indian tax laws and related judicial pronouncements pertaining to corporate enterprises having implications for various aspects of Corporate planningwitha view to derive maximum possible tax benefits admissible underthe law.
Insurance Management	**CO1-** Learn the concept of insurance, the risk and its management, various insurance policies and their structure alongwith the legal dimensionsinvolved. **CO2-** Have knowledge of Insurance Company's Management
AdvertisingandSales Management	**CO1-**Developanin-depthunderstandingofthemodern concepts and latest techniques of advertising and personal selling and sales force Management which constitutes a fast growingarea of marketing. **CO2-** Understand the service product and key elements of services marketingmix.

	CO3-Knowhowtodealwithmanagingtheservicedelivery processandtheimplementationofservicesmarketing. **CO4**- Understanding of the consumer and industrial buying processes and their determinants as relevant for marketing decisionmaking.

NameofProgramme	ProgrammeOutcomes
Post Graduate Diploma in Computer Applications	**PO1**-TheprogrammepreparesthestudentstoundertakeMaster Programmeanddesigning,small business applicationsoftware asper the needof industryand realworld.
NameoftheCourse	**CourseOutcomes**
Semester-I **ComputerFundamentals**	**CO**-Studentswillbeabletounderstandthebasicconceptsof computer.
ProgrammingusingC	**CO**-Studentisexpectedtoanalyzethereal-lifeproblemand writeprogramsin‘C’languagetosolveproblems.
Database Management System	**CO**-Studentswillbeabletounderstanddatabaseconceptsand canhandledatabasesoftware.
Datacommunicationand Networks	**CO**-Studentswillbeabletounderstandcomputernetworks includingtransmissionmedia,hardwareandsoftwarerequiredfor thecomputernetwork.
Semester-II **ObjectOriented Concepts using JAVA**	**CO**-Students will be able to understand and develop JAVA programsWebTechnologiesCO-Students willbeabletodesignweb-basedapplicationsusingHTML,CSS,JavaScript andPHP.
SoftwareEngineering	**CO**-Studentwillbeabletounderstandanddemonstratethe conceptsof Software Engineering andto develop quality software.
ComputerBased Accounting	**CO**-Studentswillbeabletoworkwithcomputerizedaccounting.

Post-GraduateDiplomainMassCommunication	
NameofProgramme	**ProgrammeOutcomes**
Post-GraduateDiplomain MassCommunication	**PO1**-Theprogrammewillempowerthestudentstoacquirejobs invarioussectors. **PO2**-Thestudentswillhaveproficiencyinlanguage. **PO3**-Theywillbesensitizedaboutprofessionalcareersi.e. teaching,mediaandcreative writing.
NameoftheCourse	**CourseOutcomes**
Semester-I Introductionto Mass Communication	**Atthe endofcourse the studentwill be able to:** **CO1**-Haveknowledgeaboutthefieldofcommunication. **CO2**-Understandthebasicconcepts andterminologyspecificto communicationand media.
PrintMedia	**CO1**-Knowthebasicsofboththefieldsanddeskaspectsof printjournalism. **CO2**-Knowtheimportanceofpressfreedomandrelatedissues of responsibilityandaccountability. **CO3**-Understandthefineraspectsofreportingforprintmedia.
ElectronicMedia	**CO1**-Understandthebasicconceptsandterminologyspecificto themediaofradioandtelevision. **CO2**-Understandtheorganizationalstructureof both AIRand DD. **CO3**-Learntheconceptsofwritingandscriptingof Radioas wellasT.V.programmes.
AdvertisingandPublic Relations	**CO1**-Knowledgeofbasicconceptsofadvertisingandpublic relations. **CO2**-Analyseadvertisementandadvertisingcampaignsin variousmedia. **CO3**-Writeadvertisingcopy. **CO4**-Haveknowledgeofethicsinadvertisingfield. **CO5**-ImpartskillsforproducingPRmaterial. **CO6**-DevisePRcampaign. **CO7**-Understandsociallyandpublicservicerelated institutionaladvertising.
Semester-II Introductionto Mass Communication	**Atthe endofcourse the studentwill be able to:** **CO1**-Haveknowledgeaboutthefieldofcommunication. **CO2**-Understandthe basicconcepts andterminologyspecificto communicationand media.

PrintMedia	**CO1**-Knowthebasicsofboththefieldanddeskaspectsofprint journalism. **CO2**-Knowtheimportanceofpressfreedomandrelatedissues of responsibilityandaccountability. **CO3**-Understandthelawspertainingtoprintmedia.
ElectronicMedia	**CO1**-Understandthebasicconceptsandterminologyspecificto themediaofradioandtelevision. **CO2**-Understandtheorganizationalstructureof both AIRand DD. **CO3**-LearntheconceptsofwritingandscriptingofRadioas wellas T.V. programmes.
AdvertisingandPublic Relations	**CO1**-Knowledgeofbasicconceptsofadvertisingandpublic relations. **CO2**-Analyseadvertisementandadvertisingcampaignsin variousmedia.. **CO3**-Writeadvertisingcopy. **CO4**-Haveknowledgeofethicsinadvertisingfield. **CO5**-ImpartskillsforproducingPRmaterial. **CO6**-DevisePRcampaign. **CO7**-Understandsociallyandpublicservicerelated institutionaladvertising.
PracticalAssignments	**CO**-Thestudentsareenabledtowritescriptforradio,T.V., brochure,pressrelease