Faculty Programme outcomes (undergraduate and post graduate level)

Faculty - Arts/ Humanities/ social science

- Students understood that the study of literature and social science help to evolve better individual and better society.
- Emerged as a multifaceted personality who is self-dependent; earning his own bread and butter and also creating opportunities to do so.
- Realized that pursuit of knowledge is a lifelong process and in combination with untiring efforts and positive attitude are necessary qualities for leading a successful life.
- Knowledge is acquired with facts and figures in the subjects like geography, economics, history and languages, sociology, philosophy, logic, politics and defense study.
- ▶ Basic concept, fundamental principles and various theories are cleared.
- Understood how literature can provide solutions to the social issues.
- Gained the analytical ability to analyses critically the literature, social, cultural and political issues.
- > Participation in various social and cultural activities voluntarily.
- Skills like reading writing speaking are developed to help in expressing ideas and views.

PROGRAMME OUTCOMES (UNDER GRADUATE LEVEL

Bachelor level of Commerce (B.Com)

- Provides the accounting knowledge to our students through they will be doing the job as Account Assistant.
- Understanding the business skill at our graduation level.
- Gives maximum information about Technology.
- Providing a Business Laws, Tax, Audit related knowledge.

Program Outcomes (Science Faculty)

After graduation our students expected to be able to avail:

1. Basic knowledge of the subjects studied in science faculty.

2. Awareness of basic principles in various science subjects like biology, chemistry, physics, mathematics, etc.

3. Pursuit of knowledge and its life long benefit is realized to the students for leading successsful life.

4. Understood scientific and fundamental principes and their relevance to daily activities.

5. Become expert in handling various equipments and instruments from various laboratories and acquire logical inference.

- 6. Able to draw the proper conclusion and analyse the data systematically.
- 7. Acquire a wide range of thinking and developes novel ideas and solutions to the problems.
- 8. Developes scientific angle with respect to scientific subjects and its relevance to life.
- 9. Acquires ideas of skill enhancement in various activities like reading, speaking effectively, etc.
- 10. Inspired in social activities, humanities, performing arts, etc. developes civilized personality.

DEPARTMENT OF HISTORY (2017 - 2018)

DEPARTMENT OF HISTORY	
Course	Outcomes (Students will be able to)
HIS- 101 – G1 History of Indian Freedom Movement	Understand modern Indian history
	• Identify the importance and the legacy of Freedom Movement.
	• Distinguish the detail account of British raj as well as its overall impacts on the Indian society.
	• Evaluate the renaissance and social reform movement in India.
	• Understand some of the early resistance to British rule.
HIS - 201 - G1 History of Indian Freedom Movement(A. D. 1905 - 1947)	
	• Identify the social institutions of late nineteenth century.
	Understand various phases of the national movement.
	• Understand the difference between moderates, extremists and revolutionaries.
	• Comprehend the socio-religious scenario and the social reformation.
	• Grasp the details of freedom movement under the Mahatma Gandhi"s leadership.
	Understandthe evolutionary processes of constitutional developments.
HOC- G - 101: History of Civilization	Understand the civilization of ancient world.
	to understand the cultural human values in view of history.
HOC- G - 201: History of Civilization	Understand the civilization of ancient world.
	to understand the cultural human values in view of history.
	Course Course HIS- 101 – G1 History of Indian Freedom Movement HIS - 201 - G1 History of Indian Freedom Movement(A. D. 1905 - 1947) HIS - 201 - G1 History of Indian Freedom Movement(A. D. 1905 - 1947) HIS - 201 - G1 History of HOC- G - 101: History of Civilization HOC- G - 201: History of HOC- G - 201: History of

SYBA	HIS - 231-G-2 Rise of Maratha Power (1630-1674)	
		 Explain the reasons behind ChatrapatiShivaji"searly conflicts with the regional lords and the outsiders.
		• Know about the administrative need and the importance of grand coronation of ChatrapatiShivaj
		Asses the ChhatrpatiShivaji''s invasion on Karnataka.
	HIS- 232 – S1 Modern India 1757 - 1855	understand the establishment and expansaion of british power in india
		understand the economic policy of british empire. understnand the conflict between indian state and
		british
	HIS- 233- S2 History of Ancient India (B.C.3000 - B.C.400)	Perceive various sources to study of Ancient India.
		• Know about the development and the achievements of man in the Stone Age.
		• Understand the glory of Indian history in the age of Harappan civilization.
		Comprehend the history of Vedic period.
		• Understand the philosophy of Jainism and Buddism.
		Perceive influence of political support on religion.
	HIS 241 (G-2) : Rise of Maratha Power (1674-1707)	• Understand the formation of welfare state during the Maratha rule
		• Understandtheindustrial and agricultural aspects of ChhatrpatiShivaji"s regime
		• Understand the administrative aspect of the Swarajya.
		• Understandthe conflict for throne after the death of ChhatrpatiShivaj
	HIS- 242 – B S1 Modern india (1805-1857)	understnand indian social reformation.
		understand the british policy towdard to indian society.
		understnand the raja ram mohan roy work
		understand the rising of 1857

	HIS 243 (S-2) : History of Ancient India (B.C.400 – A.D. 1206)	Know about the MauryanEmpire.
		• Perceive socio-economic, religious situation under the Maurya.
		• Understand emergence of feudal system in Indian society
		Comprehend about the Gupta period.
		• Understand the History of Satvahanas, Shungas, Kushans, and Hunas.
		Know about the Sangam age, the Cholas, Pallavas and Chalukyas.
	HOC- G -241 : History of Civilization	Understand the civilization of ancient world.
		to understand the human values of civilization in the view of history.
	HOC- G - 251: History of Civilization	Understand the civilization of ancient world.
		to understand the human values of civilization in the view of history.
ТҮВА	HIS 351 -G3- History of Modern World (1789-1900)	• Understand the importance of world peace right after the world war Ist.
		• Evaluate the Russian revolution and the first experiment of the communist government.
		Understand the fascism and the rise of
		dictatorship in Europe.Explain the aftermaths of the World War II on the world politics.
		• Understand how Russia and America emerged as superpowers on the verge of cold war.
	HIS 352(B)- S3 - Expansion of the Maratha Power (1707-1761)	 Understand the importance of the Maratha history in 18th century.
		Asses the circumstances under which rise of the Peshwas took place.
		Understand the political scenario of the Maratha power in the early 18th century
		• Understand the policies adopted by early Peshwas.
	HIS (S4) 353 History of Sultanate	Understand early difficulties of Sultans in India
	(1206-1707).	Grasp territorial expansion of Sultanat Period.

	• Understand the administrative setup of Sultanat from central to local level.
	Know the system of trade & commerce during the
	period of Sultant .
	• Understand the nature of village community & the relationship between the different sections of society.
	• Understand the aspects of fiscals & monetary system under the Sultanat.
	• Grasp the attitude of emperors towards religion under the regime of Sultanat.
HIS 361 - G3 - History of Modern World (1901-1945)	• Understand the importance of world peace right after the world war Ist.
	 Evaluate the Russian revolution and the first
	experiment of the communist government.
	Understand the fascism and the rise of
	dictatorship in Europe.
	• Explain the aftermaths of the World War II on the
 	world politics.
	• Understand how Russia and America emerged as superpowers on the verge of cold war.
HIS 362(B) -S3- Expansion and fall of the Maratha Power (1761- 1818)	
	• Explain the circumstances of the Maratha power after the battle of Panipat.
	• Knowthe reasons of political disintegration of the Marathas.
	• Understandthe nature of Aglo-Maratha relations.
	• Understandthe central and provincial administration of Marathas under the Peshwas.
HIS (S4) 363 History of Mughal (1526-1707)	• Understand the political situation of India on the eve of Babar's invasion.
	 Grasp territorial expansion of Mughal empire
	 Understand the emergence & consolidation of Sher Shah.
	 Grasp the Mughal concept at divine theory of kingship & state
	• Understand the administrative set up of Mughals.
	• Comprehend the basic features of Mansabdari& change in it during 17th century.
	• Know the system of trade & commerce during the period of Mughals.
	• Understand the nature of village community.

	Grasp the some aspects of fiscals & monetary system of Mughals.
HOC- G -251 : History of Civilization	Understand the civilization of ancient world.
	to understand the human values of civilization in the view of history.
HOC- G -261 : History of Civilization	Understand the civilization of ancient world.
	to understand the human values of civilization in the view of history.

DEPARTMENT OF MARATHI (2017-18)

Class	Course	Outcomes(Student will be able to)
F.Y.B.A	MAR-G-111(A)	Kadambari vatchal
Sem: I	VanganayPrakar Kadambari	Kadambarichi Vaishisthye
		Kadambariche Ghatak
		Kadambariche Prakar
F.Y.B.A	MAR-G-121(A) Vanganay	Kavya Sankalpana
Sem :II	Prakar- Kavya	Kaviteche Ghatak
		Kaviteche Prakar
		Kavaiteche Pravaha
S.Y.B.A	MAR-G-231 (A)	KadambarichiOlakha
Sem :III	VangmayPrakarKadambari	KadambarichiPrerana
		KadambaricheGhatak- Prakar
		KadambaricheVatcha
	MAR-S1-232 :	ShivkalinSwarajyaNiti
	MadhyauginGadhyaVangmay	SwarajyaNitisathiAdanyapatracheMahat
	Prakar	va
		 LokkalyankariYojanachaMadhauginRaj yakartayanchiNiti
	MAR- S2_233:	BhartiyavaIngrajitilSahaityaSankalpana
	SahityaVicharSwarup	SahaityacheSwarup
		PrayojanvaNirmitiPrakriya

		SahityacheVividhaPrakar
S.Y.B.A Sem :IV	MAR-G-241 (A) VangmayPrakarAtmakathan	 MarathitilAtmacharitra AtmakathanSwarup AtmakathanacheSwarupVaVaishitye AtmakathacheVegalepan
	MAR-S1-242 : MadhyauginPadhyaVangmayP rakar	 MadhyauginPadhyaVangmayParichay SantavangmayachiPerana SantavanmayachiSwarup SantanchiAdhytaimik
	MAR- S2-233: SahityaVicharSwarup	 BhartiyavaIngrajitilSahaityaSankalpana SahaityacheSwarup PrayojanvaNirmitiPrakriya SahityacheVividhaPrakar
	MAR- 243: SathityaSwarupVichar	 SahityachiBhashya v Mulye Akalan, Ashwad v sanskar VangamayinAbhiruchi PradeshikSahitya
T.Y.B.A Sem:V	MAR-G- VangmayPrakarNatak	 NatakacheSwarup NatakacheGhatak NatakachePrakar SukhatmikavaSokatmikaparichay
	MAR-S3: Adhunik Marathi VangmayachaEtyahas(1920- 1960)	 Katha VangmayachaParichaya Katha karanchaAbhyas VangmayPravahanchaParichaya ParmukhaLekhakkaryaVaParichaya
	MAR-S4: BhashyaVidnyanva Marathi Vayakran	 BhashyaSwarup, Karya Swan Nirmitivakarya Swanimasnkalpana Marathi VyakranatilPramukhaGhatak
T.Y.B.A Sem VI	MAR-G- SahityaAkadamiPuruskrutLek hakancheLalitGadhya	 LalitGadhyaSwarup LalitGadhyaParmpara LalitgadhyatilAnubhav, Swedana, sangharshya
	MAR-S3: Adhunik Marathi Vangmayachaetyahas (KavitavaNatak)	 1920-60 Kavitasthulparichay 1920-60 KavinchaParichaya 1920-60 Nataksthulparichay 1920-60 NatakParichaya

	MAR- S4: Marathi Vyakaran	 VyakaranKarya SabdanchyaJati BhashecheGhatak
F.Y.B.Com Sem I	MAR –G- local language – optional marathi	 LalitgadhyaMahanjekay LalitGadhyacheGhatak LalitGadhyachePrakar LalitGadhyatilBadal
F.Y.B.Com Sem II	MAR –G- local language – optional marathi	 LekahnKaushalyMhanje Kay LekhanKaushalya – Tantra LekanAviskarchePrakar
S.Y.B.Sc Sem III	MAR-G-231Lalit Vangmay - Vidanyan	 CharitraMahanje Kay CharitracheKhatak CharitracheParakar CharitrachaPrerna
S.Y.B.Sc Sem IV	MAR-G-214 LalitVangmay	 Natak – sankalpanavaVyakhya NatakacheGhatak NatkachePrakar NatkachaEtyahas

DEPARTMENT OF ENGLISH (2017-18)

Class	Course	Outcomes
FYBCom	COMPULSORY ENGLISH	• The students could express themselves in oral and written communicative situations.
		• The students could communicate effectively in their various business situations.
		• The verbal and non-verbal skills of communication are developed.
FYBA	COMPULSORY ENGLISH	 Students use the values learnt through literary works.
		The Students should express their thoghts in English.
	OPTIONAL ENGLISH	Development of the comprehensive ability of students.
		 Inculcation of moral and human values among students.
		Understanding of the basic forms of poetry.
SYBA	COMPULSORY ENGLISH	• The students' literary tendencies are developed.
		• The students could express themselves in oral and written communicative situations.

		• The students could improve vocabulary.
		• The students are able to use English effectively in formal and informal situations of life.
	General Paper -2	• The students are able to appreciate literature critically.
	(Introduction to Study of	• The students could use their creative and critical
	English Language and	faculties of mind in real life situations.
	Literature)	
		 The learners are able to apply the science of
		pronunciation and oral form of English language.
		• The students use literature to develop their social and
		moral sense in life.
		The students learn to correlate literature to socio-
	ENGLISH Special Paper -I	political conditions of its time.
		The students are able to use their creative and critical
		faculties of mind in real life situations.
		The learners could implement the values of literature
		in life.
	ENGLISH Special Paper -II	Students could learn Language through literature.
		• The syllabus can implement the values of literature in life.
		• Students know the culture of the times.
ТҮВА	Compulsory English	• The students understand the basic concept of literary
		genre, poem, prose and stories.
		• To help the students to develop literary abilities.
		• The students' communicative skills are developed.
	Special English C III	• The students learn the origin of drama and dramatic
	Special English-G-III	• The students learn the origin of drama and dramatic art.
		• The students learn the aspects and genres of drama.
	Special Paper-III	The students develop the critical understanding
		literature.
		• The students are exposed to Indian writing in English
		and American literature.
		• The students are exposed to social, political and
		cultural background.
	Special Paper-IV	• The students understand the properties and functions
		of language.
		Inculcation of phonological competence among

		students.
		• The students are acquainted with English grammatical forms and functions.
		• The students are acquainted with morphological concepts and processes.
SYBSC	ENGLISH	The students should aware the lives of great businessmen of the centiury.
		The sudents will emplement things, they learne in cou

DEPARTMENT OF ECONOMICS (2017-18)

Department of Economics

FY	Eco G-101(A) -	• Students will be aware about fundamental concepts of
BA	Fundamentals of Economics-I	economics
		• Students will be able to understand
		economic approach
		 Students will be able to know role of market
		in real life.
		• Students will be able to understand role &
		activities of financial institutions.
	Eco G-201(A) -	Students will be aware about various forms
	Fundamentals of Economics-	of market
	II	• Students will be able to understand concept
		of cashless society
		• Students will be able to understand BOT,
		BOP & type of exchange rates.
		• Students will be able to understand concept
		of govt. financing
SY	ECO 231- Indian Economy	Students will be able to understand nature of
BA	since 1980 – I	Indian economy
		• Students will be able to understand
		population & economic development
		• Students will be able to understand
		infrastructure and economic development
		• Students will be able to understand role of
		agriculture in Indian economy
	ECO 241 - Indian Economy	Students will be able to understand industrial
	since 1980 – II	sector in India
		• Students will be able to understand
		cooperative sector in economy

		• Students will be able to understand
		economic planning in India
		• Students will be able to understand recent
		structural changes in economy
	ECO 232- Advanced Micro	 To understand individual agents of market
	Economics – I	• Students will be able to understand
		consumer behaviour
		• Students will be able to understand concept
		of cost
		• Students will be able to understand Linear &
		Non- Linear functional relationship
	ECO 242- Advanced Micro	• Students will be able to understand price
	Economics – II	determination of factors
		• Students will be able to understand various
		theories of factors
		• Students will be able to understand concept
		of profit & Interest
		Students will be able to understand market
		equilibrium of firm in monopolistic market.
	ECO 233- Advanced Macro	Students will be able to understand macro
	Economics – I	economic analysis
	Leononnes – 1	Able to understand of national income
		• Able to understand classical & Keynesian
		theories of output and employment
		• Able to understand consumption &
		Investment function
	ECO 243- Advanced	• Students will be able to understand process
	Macro Economics – II	of credit creation by commercial banks
		• Students will be able to understand Quantity
		theory of money.
		• Students will be able to understand various
		macroeconomic problems.
		• Students will be able to understand various
		macroeconomic policy
ΤY	ECO 351 - Indian	• Students will be able to understand
BA	Economy since 1980 –	Indian financial system
	III	• Students will be able to understand
		money & banking
		• Students will be able to understand
		India's foreign trade
		• Students will be able to understand
		concept of globalization
	ECO 361-Indian Economy	• Students will be able to understand
	since 1980 – IV	federal fiancé in India
		• Students will be able to understand

		Indian tax system • Students will be able to understand public expenditure in India • Students will be able to understand public debt& deficit finance
	ECo-362(B) - Economics of Indian Agriculture-II	 Students will be able to understand international capital movements & MNCs Students will be able to understand international instructions & regional economic cooperation Students will be able to understand concept of devaluation & convertibility of rupees Students will be able to understand Euro currency market
F.Y. B.C OM	Micro Economics	To understand the concepts of of micro economics concepts Demand & Supply Analysis To understand the theory of production and production cost analysis. To understand the concept market types.
S.Y. B.C OM	Macro Economics	To understand the background of macro Economics To understand the concept of National Income, Classical theory To understand the Keynesian views and post Keynesian Views
T. Y. B. C O M	Indian Economics Scenario (1980-81)	To acquaint students with new concept of Economics. To update the students about new changes brought in Indian Economy To know the relevance economic practices in modern competitive world. To make student competent to become success in competitive examination.

DEPARTMENT OF HINDI (2017-18)

Class	Suject Code	Course Title	Objectives	Outcomes(Students will be
				able to)
F.Y.B.A.	Hin-111 - A (G-1)	Hindi Samanya- 1	Sahityakivibhinnavidhaosepari chitkarana	Gadya, padya, vyakaran, patralekhan,
				anuvadprakriyakojanakarat

				msathkarana
	Hin-121 – A (G-2)	Hindi Samanya- 2	Sahityakivibhinnavidhaosepari chitkarana	Gadya, padya, vyakaran, patralekhan, anuvadprakriyakojanakarat msathkarana
S.Y.B.A.	Hin-231 – A G-3	Hindi Samanya	Chhatronkokahanividhaevmkh andkavya se parichitkarana	kahanividhaevmkhandkavy aketattvonkosamjhana
	Hin-232 (S- 1)	Hindi Vishesh-1 (kavyashashtra)	Kavyashashtrakasamanyaghya nkarana	Kavyaevamgadyaketattvon separichitkarana
	Hin-233(S- 2)	Hindi Vishesh-2 (Upanyas, vidha)	Upanyasevam Natakvidhaonkiv isheshtaonkosamjhana	Upanyasevam Natakvidhao nkekemadhyam semanvimu Iyonkepratiasthanirmankar ana
	Hin-241 A G-4	Hindi Samanya	Khandkavya se parichitkarana	Kurukshetrakavyakopadhka ryuddhkibhishanatakosama jhana
	Hin-242 (S- 3)	Hindi Vishesh-1 (kavyashashtra)	Kavyashashtrakasamanyaghya nkarana	Kavyaevamgadyaketattvon separichitkarana
	Hin-243(S- 4)	Hindi Vishesh-2 (Natakvidha)	Natakvidhakosamjhana	Natakvidhakemadhyamse manvimulyonkepratiasthan irmankarana
T.Y.B.A.	Hin-351 A	Hindi Samanya (G-3)	Ekankievam Nibandhvidhasepa richitkarana	Ekankievam Nibandhvidhaki vesheshtaonkosam jhana
	Hin-352	Hindi sahityakaitihas (S-3)	Hindi sahitya se parichithona	Hindi sahityakevibhinnkalonkigati vidhiyonkosamajhana
	Hin-353	Bhashavigyantat harashtrabhash aandolankaitiha s	Bhashavigyakemadhyamsebha shakibarikiyonkosajhana	Dhvani, shabd, vakyaevamarthkisthitikosa majhana
	Hin-361 A	Hindi Samanya (G-3)	Ekankievam Nibandhvidhase pa richitkarana	Ekankievam Nibandhvidhaki vesheshtaon kosam jhana
	Hin-362	Hindi sahityakaitihas (S-3)	Hindi sahitya se parichithona	Hindi sahityakevibhinnkalonkigati vidhiyonkosamajhana
	Hin-363	Bhashavigyantat harashtrabhash aandolankaitiha s	Bhashavigyakemadhyamsebha shakibarikiyonkosajhana	Dhvani, shabd, vakyaevamarthkisthitikosa majhana
M.A.i	Prasnpatra- 1 Hin-0111	Samanyastar- kathasahitya	Adunikkathasahitya separichithona	Adunikkathasahitya se parichitkarakarkathasahity akeprati ruche nirmankarana
	Prasnpatra- 2 Hin-0112	Vishashstar- AdikalinevamBh aktikalinkavya	Adikalinevambhaktikalinkavya se parichitkarana	Adikalinevambhaktikalinka vya se parichitkarakardonokeprav ruttiyonkosamajhana

	Prasnpatra- 3	Vishashstar- Bhartiyevampas	Bhartiyevampaschhatyakavyas hastratathaalochanakosamajh	Bhartiye vampaschhatyakav yashastratathaalochanakos
	Hin-0113	chhatyakavyash astratathaaloch ana	ana	amajhakarkavyshashtrakevi bhinnasiddhantonkosamaj hana
	Prasnpatra- 4 Hin-0114(A)	Visheshstar- vaikalpik- Visheshsahityak ar- Kabirdas	kabirdaskesahityakosamajhan a	Kabirdaskesahityakosamajh akarunkekavyakivishashtao nkosamajhana
	Prasnpatra- 5 Hin-0121	Samanyastar- kathetargadyavi dhayein	Kathetargadyavidhaonseparic hithona	Kathetargadyavidhaonsepa richithokarunketattonkejan ana
	Prasnpatra- 6 Hin-0122	Vishashstar- Ritikalinkavya	Ritikalinkavya se parichitkarana	ritikalinkavyakivisheshtaon kosamajhana
	Prasnpatra- 7 Hin-0123	Vishashstar- Bhartiyevampas chhatyakavyash astratathaaloch ana	Bhartiyevampaschhatyakavyas hastratathaalochanakosamajh ana	Pashchhatyakavyashashtra kevividhsiddhantonevamva dhonkosamajhana
	Prasnpatra- 8 Hin-0124(A)	Visheshstar- vaikalpik- Adivasivimarsh	Adivasisahityakosamajhana	Adivasisahityakosamajhaka ruskivishashtaonkosamajha na
M.A.ii	Prashnpatra -9 Hin-2310	Samanyastar – mahakavyaaurk handkavya	Mahakavyaaurkhandkavyakipr avrittiyonseparichitkarana	Mahakavyaaurkhandkavya keswarupkosamajhkarunki vesheshtaonkojanana
	Prashnpatra -10 Hin-2320	Vishashstar – Bhashavigyan	Bhashavigyankesiddhantonkos amjhana	Bhashavigyanpramukhango ntathauccharanprakriyakos amajhana
	Prashnpatra -11 Hin-2330	Vishashstar- Hindi sahityakaaadiev ammadhyakal	Hindi sahityakeaadievammadhyakal kosamajhana	Hindi sahitya kea di evammadhykalkosamajhan a, vibhinnasahitykaronseparic hithonaevamunkisahityikpr avruttiyonkosamajhana
	Hin-234 0 (C) Prashnpatra -12	Vishashstar- vaikalpik-Hindi patrakarita	Patrakaritaswaruo, paribhasha, mahattvaevamvyaptikosamajh ana	Patrakaritaitihas, vyapti, avashyakata, visheshtayeinadiseparichith ona
	Prashanpatr a -13 Hin-2410	Samanyastar – kavyanatak, naikavita, gazal	kavyanatak, naikavita, gazalkeswarupkosamajhana	kavyanatak, naikavita, gazalkeswarupkosamajhkar unketattvonaurvisheshtaon kojanana
	Prashanptra -14 Hin-2420	Vishashstar — Hindi Bhasha	Hinibhasha, itihas, adhunikrup, boliyonkosamajhana	Hindi bhashyakeswrupkovistrutr upsesamajhana

	Prashanpatr a-15	Vishashstar- Hindi	Hindi sahityakeadhunikkalkosamajh	Hindi sahityakeadhunikkal separichithonaevamunkisa
	Hin-2430	sahityakaadhuni kkal	ana	hityikpravruttiyonkosamajh ana
	Prashanpatr a-16 Hin-2440 (C)	Vishashstar- vaikalpik- Anuvadvigyan	Anuvadswaruo, paribhasha, mahattvaevamvyaptikosamajh ana	Anuvadkabhashavaigyanikp akshaevamanuvadkshamat akavikaskarana
F.Y.B.com	Hin (G-1)	Hindi samanya	Sahityakivibhinnavidhaonsepa richitkarana	Patralekhankshamata, bank paribhashikshabdavali, vighyapan, anuvadkshamataviksitkara na
	Hin (G-2)	Hindi samanya	Sahityakivibhinnavidhaonsepa richitkarana	Kavyakopadhakarmanvimul yonkosanjhana

DEPARTMENT OF BOTANY (2017-18)

Academic Year	Class	Sem	Subject Code	Course Title	Objectives	Outcomes (Students will be able to)
2017-18	F.Y.B.SC	Sem- I	BOT- 111	P- I- Bacteria & viruses & Algae	1. To know scope and importance of the discipline.	1. Student aware about plant identification.
			BOT- 112	P-II- Plant for human welfare	2. To study plant communities and ecological adaptations	2. They Study grouth & development of
		Sem- II	BOT- 121	P-I- Fungi, Lichen & Plant pathology	in plants.	plant in nature
			BOT- 122	P-II - Industrial Botany	3. To know about conservation of biodiversity.	
			BOT- 103	Practical on 111, 112, 121, 122	4. To study the botanical regions of India and vegetation	
					types of Maharashtra.	
2017-18	S.Y.B.SC	Sem -I	BOT- 231	P-I - Bryophytes & Pteridophytes		1. Student studies morphological
			BOT-	P-II -	2.To study various	And Anatomical

			232	Morphology of	tissue systems	Struture of the plant
				Angiosperm		
		Sem-	BOT-	P-I- Plant	3.To know primary	
		П	241	Physiology	structure of dicot	
					and monocot plants	
			BOT -	P-II - Taxonomy	4.To study normal	
			242	of Angiosperm	secondary growth in	
					plants and their	
					causes	
			BOT -	Practical	5.To study	
			233		protective tissue	
					system	
			BOT -	Practical	System	
			243	1 nuclicul		
2017-18			273			1.Student Classify &
2011-10						-
	TYPCC	6	DOT	D I		identify the plant
	T.Y.B.SC	Sem	BOT -	P-1-		2. They prepared
		-1	351	Cryptogames-I		harbariumes
			BOT -	P-II - Angioserm	1.To know the scope	3. They preserve the
			352	& Taxonomy	and Importance of	plant partes & section
					Embryology	
			BOT -	P-III - Cell &	2.To study structure	
			353	Molecular	of micro and mega	
				Biology	sporangium.	
			BOT -	P-IV - Advanced	3.To study	
			354	plant Physiology	pollination,	
					fertilization,	
					Endosperm and	
					Embryogeny.	
			BOT -	P-V - Plant	4.To give exposure	
			355	Ecology &	of techniques in	
				Phytogeography	embryology	
			BOT -	P-VI -		
			356.2	Ethanobotany		
			BOT -	Practical		
			357			
			BOT -	Practical		
			358			
			BOT -	Practical		
			359			
-		Sem	BOT -	P-1-		
		-11	361	Gymnoserm &		
				Paleo Botany		
			BOT -	P-II - Anatomy		
			362	Embryology		
			BOT -	P-III - Genetic		
			363	plant Breeding &		

		Evaloution			
	BOT -	P-IV - Plant			
	364	Biotechnology			
	BOT -	P-V - Applied			
	365	Botany			
	BOT -	P-VI - Medico			
	366.2	botany &			
		Pharmacougnosy			
	BOT - 367	P-I (Pract) (I & III			
) P-II (Pract)(II &			
	368	IV)			
	369	P-III (Pract) (V & VI)			
	509	VI)			
04 Year					ure and its co-relation with
2017-18	BOT.102 Environme Biostatistics BOT.103 Cytogeneti BOT.104 Practical – BOT.105 Practical – BOT.105 Practical – BOT.201 Diversity of BOT.202 Diversity of BOT.203 Plant Phys BOT.203 Plant Phys BOT.204 Practical – BOT.205 Practical – BOT.203) Semister III BOT – 3.1 : Gymnos BOT – 3.2 : Plant Bi Bioinformatics BOT – 3.2 : Mycold Special paper - I BOT – 3.4 : Practica 302) BOT – 3.5 : Practica 332 / 333/ 334) Semister IV BOT – 4.1 : Develop BOT – 4.22 : Mycold Special paper – II	 .103 Cytogenetics, and Molecular Bio .104 Practical –I (Based on BOT.101) .105 Practical –II (Based on BOT.102 .103) ester-II .201 Diversity of Lower Cryptogams .202 Diversity of Higher Cryptogams .203 Plant Physiology and Biochemist .204 Practical –I (Based on BOT.201) .205 Practical –II (Based on BOT.202 .203) ister III - 3.1 : Gymnosperm and Palaeobotan - 3.2 : Plant Biotechnology and formatics - 3.32 : Mycology and Plant Pathologial paper - I - 3.4 : Practical – I (Based on Bot – 333/334) ister IV - 4.1 : Developmental Botany - 4.22 : Mycology and Plant Pathologial paper – II - 4.32 : Mycology and Plant Pathologial paper – II 		environment. iii) To understand with environment. iv) To understand and care of enviro vi) To understand	he sustainable development

423 & 433 / B0I - 424 & 434)		423 & 43	33/Bot – 424 & 434)			
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Academic Year	Class	Course title	<u>Objective</u>	Outcome
2017 - 18	F.Y.B.Sc Sem-I	P-I Zoo 111 Non chordate	To enhance the knowledge of invertebrates	Students get knowledge and information of invertebrates.
		P-IIZoo112 Cell Biology	To develop subject interest among students	Students get knowledge and information of Cells and tissues in organs.
		P-III Zoo 103 Practical	Practical awareness of subject knowledge.	Students get knowledge and information of practical applications of subject.
	Sem-II	P-I Zoo 121 Chordate –I	Awareness of scientific knowledge of chordates among students.	Students get knowledge and information of Chordates and their uses.
		P-II Zoo 122 Applied Zoology	To knowledge about Applied subjects of Zoology.	Students get knowledge and information of goatary, wormiculture, sericulture, fishery, etc.
		P-III Zoo 203 Practical	Practical awareness of subject knowledge.	Students get knowledge and information of practical applications of subject.
	S.Y.B.Sc. Sem I	P-I Zoo 231 Non-chordate II P-II Zoo 232	To study about invertebrates To study	Students get knowledge and information of invertebrates, types and importance. Students get knowledge and

DEPARTMENT OF ZOOLOGY (2017-18)

I		· ··	
	Medical Zoology	about medical	information of medicinal values
		importance of	of animals and their economic
		animals	importance.
	P-III Zoo-233	To study the	Students get knowledge and
	Practicals	practical	information of practical
		applications	applications of subject.
		of subject.	11 5
Sem II	P-I Zoo-	To study	Studentsget knowledge and
	241Choradates II	about	information of Chordates and
		chordate	their uses.
	DUZ		
	P-II Zoo-	To enhance	Students get knowledge and
	242Applied	the	information of Bees
	Zoology	knowledge of	
		Bees	
	P-III Zoo-243	Practical	Students get knowledge and
	Practical	awareness of	information of practical
		subject	applications of various
		knowledge.	principles of the subject.
		1110 110 0801	principies of the subject
T.Y.B.Sc.			
SEM I	P-I Zoo 351	To study	Students get knowledge and
	Non chordate III	about Leech	information of leech, types and
			importance.
	P-II Zoo 352	To study	Students get knowledge and
	Cell &	about cell and	information of cell, its types and
	Molecular	its structure	• •
			importance.
	biology	and	
		molecular&	
		its basis	
	P-III Zoo 353	To study	Students get knowledge and
	Mammalian	about	information of mammalian
	histology &	mammalian	histology and its function
	Physiology I	tissue and its	
		function	
	P-IV Zoo 354	Biochemical	Students get knowledge and
	Biochemistry	study of	information of biochemical
	2100110111011	protein, lipid	molecules study and its function
		carbohydrate	morecules study and its function
		-	
	P-V Zoo 355	etc. Study of	Students get knowledge and
	Systematic	evolution &	information of evolution fossil
	•	fossil	and its function
	,Evolution	108811	
	&Paleontology	0, 1, 0	
	P-VI Zoo 356 Biotechnology	Study of principal of	Students get knowledge and information of biotechnological

		biotechnology	principal
	Prac-I Zoo 357 Related to 351 & 353	Practical awareness of subject	Students get knowledge and information of practical applications of subject.
	Prac-II Zoo 358 related to 352 & 355	knowledge. Practical awareness of subject knowledge.	Students get knowledge and information of practical applications of subject.
	Prac-III Zoo 359 Related to 354 &356	Practical awareness of subject knowledge.	Students get knowledge and information of practical applications of subject.
Sem II	P-I Zoo 361 Chordates III	Study of Scoliodon & its study	Students get knowledge and information of vertebrates, types and importance.
	P-II Zoo 362 General Embryology	Study of gametes, fertilization etc.	Students get knowledge and information of gametes, fertilization, its types and importance.
	P-III Zoo 363 Mammalian Histology & Physiology	To study about mammalian tissue and its function	Students get knowledge and information of mammalian histology and its function
	P-IV Zoo 364 Research Methodology	How the research are done and methods of data analysis	Students get knowledge and information of research, research design, sampling etc
	P-V Zoo 365 Micro technique	Study of micro techniques scope & applications	Students get knowledge and information of microtechniques, washing dehydration clearing, staining etc
	P-VI Zoo 366 Applied Zoology III(Vermiculture, Poultry, & Fisheries	Study on vermiculture, poultry& fisheries	Students get knowledge and information of vermiculture, poultry and fisheries etc.
	Prac I Zoo 367 related to 361 &363	Practical awareness of subject knowledge.	Students get knowledge and information of practical applications of subject.
	Prac II Zoo 368	Practical	Students get knowledge and

related to 362 &365	awareness of subject knowledge.	information of practical applications of subject.
Prac III related to 364 , 366 & project work	Practical awareness of subject knowledge.	Students get knowledge and information of practical applications of subject.

DEPARTMENT OF CHEMISTRY (2017-18)

		Chemistry
Class	Course	Outcomes (Students will be able to)
FY B.Sc.	CH-111: Physical and Inorganic Chemistry	• Develop an ability to use conceptual and mathematical tools to express and predict atomic and molecular behavior
		 Predict atomic structure, chemical bonding or molecular geometry based on accepted models.
		• Convert scientific equation in straight line to get physical parameter for slope and intercept.
		Understand deviation of real gas from ideal behavior.
		 Understand critical constant and vanderwall"s constant.
	CH-112: Organic and Inorganic Chemistry	• Understand the general properties of organic compounds, applications of organic compounds.
		 Understand the Mono functional compounds - Common and IUPAC nomenclature of various type of organic compound.
		Understand the the alkane by many organic reaction.
		Understand of S- block Elements of alkali metals and Alkaline earth metals
		• Understand Arrhenius theory, Bronsted- Lowry theory, and Lewis theory.
		Understand ionic product of water, Buffer solutions.
	CH-113: Chemistry Practical	
		 Understand the determination of heat of solution, equivalent weight,

		surface tension etc.
		 Carry out qualitative analysis of acidic and basic radicals.
		Learn the applications of types of titrations for various estimations
	CH-121: Physical and Inorganic Chemistry	 Identify methods and instruments that can be used to study chemistry
		 Evaluate data generated by experimental methods for chemical characterization.
		 Carry out quantitative analysis by volumetric method
		 To understand specific and equivalent conductance.
		• To understand cell constant and use of it to obtain specific and equivalent conductance.
		• To know Kolhaurash"s law and application of it.
		CH-122: Organic and Inorganic Chemistry
		• understand the preparations, reactions and properties of Monohalogen and Dihalogen derivatives of Alkane.
		 understand the preparations, reactions and properties of Alcohol, Ether and Epoxide.
		 understand the preparations and reactions of carbonyl group.
		 understand the preparation of carboxylic acids.
		 determine the Molecular weight, formula weight, equivalent weight of organic compounds.
		• Understand the Electronic structures, size of atoms and ions, ionization energy, metallic and nonmetallic of p block elements.
	CH-123: Chemistry Practical	
		 Carry out quantitative analysis by instrumental method using Conductometer.
		estimate of aniline / phenol.
		 Perform qualitative analysis of organic compounds.
		Carry out quantitative analysis by volumetric method and gravimetric methods
SY B.Sc		
	CH 231: Physical and inorganic chemistry	• Understand the Electronic structures, size of atoms and ions, ionization energy, metallic and nonmetallic of d block elements.
	,	 Understand concept of Helmolthz free energy
		Understand numerical calculations of Gibbs free energy.
		Understand concept of vapor pressure of liquids.
		 Understand the concept of physical properties of metals
		Learn methods of purification of ores.

 Review the concept of isomers and discuss the isomer which results from free rotation of C-C single bond, from a chirallity, from restricted
rotation, R, S and E, Z nomenclature.
Study of amines their formation reactivity.
 Study of reactivity, preparation and reactions of organo Li, Cu, Zn compounds.
 Understand the importance of analytical chemistry in analysis of compounds by titrimetric, gravimetric and instrumental methods.
 Know the importance of sampling methods and ways of interpretation of results of analysis.
• Determine the causes of errors and their minimization during analysis
 Learn the application of types of titrations for quantitative analysis of the samples.
• Understand techniques chromatography for separation of components in the mixture.
 Understand recrystallization for purification of organic compounds.
 Prepare various inorganic complexes.
 analyse compounds by titrimetric, gravimetric and instrumental methods
 Understand to determine thermodynamic parameter.
 Understand colligative properties and its application calculation of molecular weight of solutes
 Understand concept of electromotive force and its measurement
Understand about properties of Lanthanides and actinides.
• Understand concept of s-s, s-p, p-p, p-d & d-d combination of orbitals.
Understand about classification of electrodes.
CH 242: Organic and analytical chemistry
• Understand the synthesis and reaction of 5, 6 member and condensed heterocyclic systems.
 Understand the synthesis of synthetic reagents and their synthetic utility.
Know the mechanism and stereochemistry of E1, E2 reaction.
• Understand the concept of quantitative analysis by gravimetric methos.
 Understand the concept for separation of analytes in samples by thin layer, paper and column chromatographic methods.
 Carry out qualitative analysis of organic compounds.

		Handle landsbergers apparatus for determination of molecular weight.
		 Estimate of Nickel and Barium gravimetrically.
		Make use of potentiometer for determination of standard electrode
		potential.
Г.Y.B.Sc	CH 351: Physical chemistry	 Understand spontaneous and non spontaneous processes.
		 Understand the importance of salt bridge in electrochemical cell.
		 Understand the concept electrochemical cell and determination of potential of cell
		 Understand the laws of photochemistry (Grothus Draper Law and Stark Einstein law)
		 Understand the concept quantum yield and fluoresce and phosphorescence from Jalblonski diagram.
		• Understand the various devices to measure the radiation from radioactive sample.
	CH-352: Inorganic chemistry	 Understand the basic concept of the co-ordination compound, and identify the types of given ligand, chelates.
		• Understand the different physical method for the study of complexes
		and assumptions, drawbacks and isomerism in Werner"s theory.
		• Understand Effective atomic number (EAN) and how to calculate EAN fo
		any given complexes.
		 Understand the modern theories of metal-ligand bond related to valence bond theory.
		Application of CFT related to different geometry e. Square planer, tetrahedral, Octahedral.
		• Understand the basic concept about CFT e. Spin magnetic moment, crystal field stabilization energy related to weak and strong field, limitation of theory.
		• Understand the modern theories of metal-ligand bond related to Molecular orbital theory, and difference between B.T., C.F.T. and M.O.T.
	CH-353: Organic chemistry	 Understand Polarity picture of carbonyl group and nucleophilic addition reaction to it.
		 Introduction concept of aromaticity electrophilic and nucleophilic aromatic substitution reaction.
		 Molecular rearrangement involving migration to C, N and Oxygen.
		 Drawing the resonating structures.
		Understand Nuclophic substitution reactions.
		 Understanding electrophilic addition reactions.
	CH-354:	 Understand procedure of extraction of metal ions using Solvent

Analytical Chemistry SEM V	Extraction process.
	• Understand the application of Ion Exchange Chromatography method for the separation of cations and anions using different types of resins.
	 Understand applications of Size Exclusion Chromatography for the separation of analytes based on their size and shapes.
	• Understand the working of Gas Chromatographic unit and apply the knowledge to separate volatile compounds in sample.
	 Understand Principle, choice of column materials for HPLC and its application.
	Understand Principles of Electrophoresis and choice of techniques of electrophoresis for various applications
CH-355: Industrial chemistry	 understand general concept of Industrial chemistry.
	 Understand manufacturing of sugarcane.
	 understand general idea of differ physical methods used in
	manufacturing.
	 understands various types of fertilizer.
	 Understand manufacturing of Beer and spirit.
	 understand the aspects of small scale industry.
CH 356: B Environmental chemistry	Understand the concept to awareness about environmental chemistry
	 Understand the concept about atmosphere and different layer and composition
	 Understand the concept. awareness about air pollution and organic inorganic pollutants
	• Understand the concept, water pollution and domestic sewage waste water, industrial pollution agriculture pesticide water pollution.
	 Understand the different methods of water treatment, water effluents and sewage water.
	 Understand the green house gases and global warming.
CH-357,367: Physical Chemistry Practical	 Prepare molar and normal solutions of various concentrations.
	 determine concentration of unknown solutions by Spectrophotometric method.
	• Measure the pH, pKa and Ka of various acids by potentiometry.
	 Measure refractive index, molar refraction and unknown concentration of various solvents.

	• Determine the molecular weight of a given polymer by turbidimetry.
	 Investigate the reaction rate.
CH 358,368: Inorganic practical	 estimate ores and alloy by gravimetric and volumetric method.
	 Separate and analyze binary mixtures by qualitative method
	• Prepare and determine percent purity of various inorganic complexes.
	Perform chromatographic technique (paper chromatography).
	 Estimate Lead, Iron by gravimetric method.
	Estimate Titanium and Iron by Spectrophotometric method.
CH 359,369: Organic practical:	 Separate and analyze binary water insoluble mixture
	 Separate and analyze binary water soluble mixture
	 Estimate - acetamide, glucose by volumetric method
	 Estimate basicity of various acids.
	 Prepare various organic compounds.
	 Understand Thin Layer Chromatographic techniques and physical constant.
T.Y.B.Sc Sem VI CH-361: Physical chemistry.	• Understand the types of spectra, Rotational, Vibration and Electronic energy levels.
	 difference between order and Molecularity
	 Understand the first, second and third order reaction.
	 Understand the concept anisotropic, isotropic, etch figure, polymorphism,
 CH-362: Inorganic chemistry	• understand the electronic structure, Extraction uses, oxidation states biological role of Cu.
	 know about the all basic theory of Acid and bases.
	• understand the concept of Hard and Soft acid bases concept theories, application and limitations.
	• know the different types and theories of Corrosion and how to protect Metal from corrosion.
CH-363: Organic chemistry	Understands common terms in spectroscopy.
	 Learn Physical methods of structure determination which includes IR, UV and NMR.
	 Solve the problems based on IR, UV and NMR.
	 understand retro synthesis.
	 predict synthons and reagents.

	Solve the problems based on retro synthesis.
CH-364	perform the analysis of samples using instrumental methods
Analytical	 perform the analysis of samples using instrumental methods
Chemistry	
	understand the concepts of spectrometry, know the principles of
	instruments and their applications
	• understand principle, working and applications of Flame and Plasma
	Emission Spectrometry.
	understand principle, Instrumentation and application of Atomic Absorption Spectrophotometry
	• understand principle, Instrumentation and applications of Turbidimetry
	and Nephelometry.
CH-365:	Understand the process of manufacturing of petrol and gasoline.
Industrial	
chemistry	
	Understand the process of manufacturing of methanol.
	 Understand the process of manufacturing of soap.
	Understand the process of manufacturing of detergents.
	Understand classification of dyes and paints.
	Understand properties of drugs.
CH 200 Delumen	
CH 366: Polymer chemistry	 Understand the basic concepts of polymerization.
	 Understand the different methods of polymerization.
	 Understand various techniques of polymerization.
	• Understand the preparation, properties and applications of PE, PVC, Polystyrene, polyacrilonytrile,
	Understand the concept Glass transition temperature
M.Sc. Part I:	
CH-P-110:	• Understand the terms eigen function, eigen value, operator and
Physical	postulates of Quantum mechanics.
Chemistry I	
	• Understand mechanics of particle in one, two and three dimensional box.
	• Learn parent –daughter relationship, application of radioactivity, NAA,
	IDA. Effect of radiation and units of radiation.
	 Learn the Fricke and cerric sulphate dosimeter.
	• Understand the terms ionic strength, activity coefficient .DHO equation
	Understand the adsorption of gases by solid types of isotherms.

Inorganic	
chemistry Paper	
I	
	Understand about geometry and shape of the molecule
	• Learn and find out bond order and dipole moments of the inorganic molecule.
	 Learn 18 electron rule and application.
	Determine the point group of inorganic molecules.
CH -150 :Basic Organic Chemistry	 understand stereo chemical principles, enantiomeric relationship R and S ,E and Z nomenclature in C,N,S,P containing compound.
	• understand SN1, SN2 and SNi mechanism and stereochemistry.
	 understand NGP by pi and sigma bonds, classical and non -classical carbocations.
	understand alkylation and acylation reaction .
	Learn and solve problem type of elimination
CH-P-210: Physical Chemistry II	Understand the thermodynamic description of mixtures state function, exact, inexact differential.
	• Understand the colligative properties of solutions, depression in f.p., elevation in b.p, osmotic pressure.
	 Understand the statistical thermodynamics and various partition functions.
	• Understand the consecutive elementary reactions, rate determining steps, steady state approximation, pre-equilibria, Michaelis-Menten mechanism, Lindemann- Hinshelwood mechanism, chain reactions.
CH: 230 - Inorganic chemistry Paper II	Understand about structure of atom, Hunds rule, Term symbol, calculation of microstates, orbital selection rule.
	 learn mechanism in transition metal complexes.
	Learn radius ratio rule of coordination no 3,4,
	Understand the Born-Haber cycle to calculate lattice energy.
CH-2!	50 Name Reactions, Synthetic Organic Chemistry & Spectroscopy
	learn various name reaction with example.
	• use synthetic reagents of oxidation and reduction for solving the example.
	understand mechanism of rearrangements reaction .
	interpret IR spectra on basic values IR frequencies
	 learn factors affecting on UV absorption spectra.

CH-290-General	
Chemistry	
	 Solve the problems on Chemometrics Mean and Standard deviation.
	 Learn theory of electrogravimetric analysis, Electrolytic separation and determination of metals.
	 Know Instrumentation, choice of Mobile Phase, Solvent Treatment systems, Pumping systems, Sample injection systems, Columns for High Performance Liquid Chromatography.
	• Learn principle, theory of Glass Membrane Potential, The Alkaline and Acid Error, Standard Buffers, Accuracy of pH , Measurements with the pH- meter, types Ion-selective Electrodes.
	 Learn Voltammetric Electrodes, Detectors, Amperometric Sensors, Amperometric Titrations.
CH-P-1 : Physical Chemistry Practical	 prepare molar and normal solutions of various concentrations.
	 determine concentration of unknown solutions and degree of hydrolysis and hydrolysis constant by Spectrophotometry.
	 Determine stability constant of a complex ion and standard free energy change ΔG0 and equilibrium constant by potentiometry.
	• investigate the rate constant for depolymerization , energy of activation and order of the reaction
CH: I-1: Practical course Inorganic chemistry:	 Perform gravimetric and volumetric analysis ores.
·	 Analyse binary mixtures by gravimetric and volumetric method.
	 Prepare various inorganic complexes and determination of its Percent purity.
	• analyse iron from given drug sample and calcium in milk sample.
	 Perform paper chromatographic technique.
CH –O- 1 Organic Chemistry practical	 Know uses of chemistry software slike ISI draw, chem Draw, Chem sketch.
•	 draw the different structure of organic compound.
	 perform Thin layer chromatography technique for completion of reaction.
	 perform single and two stage preparation.
	 Make use of soxhlet extractor and steam distillation assembly for Purification of organic compound.
M.Sc. II	• Compare the major and minor product of variety of organic reaction.

	Organic	
	Reaction	
	Mechanism	
		 Understand accepted mechanism of organic reaction including all intermediates
		 Solve the problems on Taft and Hammet constant.
		 Understand Concave upward and downward deviation.
		 Learn the type"s hydrolysis of ester.
	(CH-351: Spectroscopic Methods in Structure Determination
		 Understand principle and instrumentation of 1H NMR, 13 C NMR and Mass spectroscopy.
		 Investigate structures on these techniques.
		 Resolve structure of organic compounds by 2D NMR techniques.
		 Analyze reaction sequences by using spectroscopic technique.
	CH-352 (Organic stereochemistry)	 Understand the basic concepts of stereo chemistry
		 assign structure of organic molecules.
		 learn Three dimensional structure of cyclic and acyclic compounds
		 Use selectivity of reagents for chemical reactions.
	CH-353: Fr	ee radical, photochemistry, pericyclic reaction and their applications
		Understand term quantum yield, and electronic states and transitions in molecules.
		• Understand Norrish-I and Norrish-II cleavages, Paterno-Buchi reaction.
		• Understand Photochemistry of olefins and arenes: 1, 2-, 1, 3- and 1, 4- additions.
		 Understand free radical reaction contain Halogen, Sulphur, and, Selenium Group transfer reaction.
	CH-450: Chemistry of Natural Products	 know concept of biogenesis of natural products.
		 Classify sources of various vitamins.
		• Learn biological importance of vitamins B1, B2, B6, folic acid, B12, C, D1, E, K1, and K
		Understand and apply the role of enzyme in reactions.
		Synthesize natural organic compounds by chemical methods.
		Learn the stereochemistry of natural product.
	CH-451:	 Understand Transition metal complexes in organic synthesis, Grubb"s

Synthetic Methods in	catalyst, Ziegler Natta catalyst.
Organic	
Chemistry	
Cheffistry	 Design the organic compounds by use of synthetic reagents
	Understanding role of Umpolung in organic synthesis.
	Understanding Protection and deprotection in the synthesis of
	polypeptide and polynucleotide.
	• Know basic principles of green chemistry and design green synthesis.
	Use ecofrindly green reagents, solvents, catalysts and reaction conditions.
CH-452: Hetero	bcyclic chemistry, Chiron approach, chiral drugs and medicinal chemistry.
	• Know the main synthetic routes and reactivity for variety of heterocyclic
	compounds and applications.
	Understand Important Terms –Receptor, therapeutic index,
	bioavailability, Drug assay and Drug Potency used in medicinal chemistry.
	Understand Structure of triose, Pentose, hexose, Stereochemistry and
	reaction of Glucose.
	• Understand Synthesis and Pharmacological activity of S-Ibuprofin , S-
	Metaprolol, (+) Ephedrime
	 Understand basic Pharmacokinetics of drugs, anti Microbial drugs,
	Antifungal, Antibacterial, antiviral, antiprotozoals.
	CH-O2 (organic Practical chemistry MSc II)
	 separate organic compounds in different phases.
	 perform qualitative test to analyze functional group of organic
	compounds.
	 learn distillation technique.
	 detect elements N, S, and X in organic compounds.
	 use purification techniques of organic compounds .
CH -O-3: Three	 perform three stage preparation.
stage	perform three stage preparation.
preparations	
	 draw the reaction mechanism.
	 Purify the organic compounds by crystallization.
	• Perform chromatographic technique to check completion of reaction.
	Apply the knowledge about different reaction conditions.
CHO-4: Short	
Research Project	
	 survey literature for the topic of the project.
	• Learn to apply reaction conditions for synthesis, isolation of product and give mechanism.
	Handle instruments for analysis and discuss their experiment al results.
	Used ICT tools to prepare project reports and present it using Power
	point presentation.

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F .	Modern Office	• Students will be aware about modern office management concept
Y	Management	• Students will be able to understand office
		appliances
		•students will able to managerial function in
		the office and office work
B		• Students will be able to understand role &
		activities of modern office management.
•		• Students will be aware about digital
C		appliances related to modern office
		management.Students will be able to office work in
0		office
m		Students will be aware about piecemeal
m	Financial and Cost	distribution of cash.
	Accounting	• Students will be able to understand concept
		of financial and cost accounting.
		• Students will be able to understand higher
		purchase system, Investment, Royalty A/C
		• Students will be able to understand concept
		of partnership a/c. Students will be able to understand the
	Quantitative Techniques &	statistics technique on quantitative data
	Computing skill	Students will be able to understand mean,
		median, Mode, Quartile Deviation, Range,
		Percentile etc.
		• Students will be able to understand the logic
		and resining in the market situation.
		• Students will be able to work on tally in the
		office.
		Students will be able to understand marketing
	Marketing & Advertising	techniques
		• Students will be able to understand
		adverting techniques.

DEPARTMENT OF COMMERCE (2017-18)

		• Students will be able to understand 7 Ps of
		marketing mix .
		• Students will be able to understand product
		life cycle stages.
		• Students will be able to understand modern
		marketing techniques
		Students will be able to understand Banking
	Principles & Practices of	system in india
	Banking	• Students will be able to understand concept
	_	of modern Bank, structure of bank, payment
		and settlement system in India.
		• Students will be able to understand banks
		primary and secondary functions.
a	Ducinaca Managamant	Students will be able to understand business
S.Y.B	Business Management	
C		manager's functions.
.Com		• Students will be able to understand various
		theories on business management.
		• Students will be able to understand concept
		of each business function scientifically.
		• Students will be able to do business in the
		modern era.
	Corporate Accounting &	Students will be able to understand corporate
	Costing	accounting of companies.
		Students will be able to understand Issue of shares
		and debentures, buy back of equity share,
		Redemption of preference shares and debentures,
		Profit Prior to Incorporation
	Business & Tax Laws	Students will be able to understand Business
		and Tax Related Laws.
		• Able to understand of Income tax Act.
		Able to understand Indian Contract act,
		Sales Act, Patent act, information technology
		Act, Negotiable Instrument Act, Foreign
		Trade act.
	Computing Management	• Students will be able to understand computerised
	and business	accounting.
	communication	6
	communication	• Students will be able to understand process
		of tally ERP 9.
		• Students will be able to understand the
		Tally with VAT
		• Students will be able to understand the
		voucher Entries Steps including VAT. •
		Students will be able to understand the

		1
		business communication .
		• Students will be able to understand the
		business communication process and business letter
	Business Entrepreneurship	Students will be able to understand Business
		Entrepreneur concepts, functions, Qualities &
		Role
		 Able to understand Classification and types
		of Business Entrepreneur
		Able to Understand Impact on Business
		Entrepreneurship, innovative businessman's
		Success and Women Entrepreneur.
	Modern Banking &	To acquaint students with the new concepts of
	Financial System in India	Banking.
	5	To update the students about new changes in
		Banking.
		To know the relevance banking practices in
		modern competitive world.
		To make understandable of banking operations.
	Retail Management	To introduce basic Retail Management Concepts.
	C	Empowering students with the most modern
		techniques and practices of Retailing seen and
		experienced around the globe.
		To learner will be able to determine a level of
		interest in pursuing carrier in Retail Management.
TT	Principles & Practices of	To understand the audit concepts, objectives,
T.Y.	Auditing	principles, advantages and disadvantages, auditing
B.Co		related with other subject.
D.C0		To understand the types of audit ,Audit
m		Programme, Documentations, Evidences,
111		Vouchers, Vouching, Verification and Valuation
		To understand the student internal control system,
		Audit of Limited Companies in India and Audit
		Report.
	Lluman Dagauraa	To understand the concert of Uursee recovery
	Human Resource	To understand the concept of Human resource
	Management	management
		To introduce the concept, principles, and practices
		of HRM to the students.
		To familiarise students with concepts of human
		resource planning, job analysis, recruitment and
	La some Tor 6	selection procedures.
	Income Tax & competitive	The student will be able to know the various
	Skill	provisions relating to income and income tax
		computation.

		Understand the basic concept of Income tax Act 1961 and get the elementary knowledge of scheme of taxation in India. Compute income and tax of an individual assesses under the tax. Development the Competitive Skill among commerce students.
	Import & Export Management	To understand the concept of Import & Export management To introduce the concept, principles, and practices of Import & Export to the students. To make able to commerce students for Import & Export trade
	Advanced Accounting I	To understand the concepts of farm accounting, Computerized Accounting, Goodwill, insolvency, Shares,
	Advanced Accounting II	To understand the concept of amalgamation, Absorption, Internal Reconstruction and External Reconstruction, Bank Final Account, Analysis of Financial statement, Ratio Analysis.