

Loknete Dr. Balasaheb Vikhe Patil (Padma Bhushan Awardee) Pravara Rural Education Society's RTS_COMMERCE AND SCIENCE COLLECE SATEAL



ARTS, COMMERCE AND SCIENCE COLLEGE, SATRAL

Tal-Rahuri, Dist.-Ahmednagar, 413711 (MS)

AS PER SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE COURSE OUTCOMES (CO'S)

COURSE OUTCOMES (COs)

FACULTY OF ARTS: B.A.

Sr. No.	Subject	Page No.
1	Marathi	2-6
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6	History	15-16
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12	Physics	50-54
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	DEPARTMENT	Г OF MARATHI : 2021-22
	Course	
Class	(Paper No., Code No. &	Outcomes
	Title)	
FYBA Marathi Gen (CBCS-2019) Sem. I	[CC-1A] 11021, Marathi Sahitya : Katha & Bhashik Koushalyavikas	CO1. विद्यार्थ्यांना मराठी साहित्य तसेच कथा या साहित्यप्रकाराची ओळख होते. CO2. मराठी कथेचे स्वरूप आणि वाटचाल लक्षात येते. CO3. समकालीन मराठी कथाकारांचा परिचय होतो. CO4. नैसर्गिक, अर्जित आणि प्रगत अशी भाषिक कौशल्य विकसित होतात.
FYBA		CO1. विद्यार्थ्यांना एकांकिका या साहित्यप्रकाराचा परिचय होतो.
Marathi Gen	[CC-1A] 12021, Marathi	CO2. एकांकिकेचे संहितामूल्य व प्रयोगमूल्य समजते.
(CBCS-2019) Sem. II	Sahitya : Akankika & Bhashik Koushalyavikas	CO3. निवडक एकांकिकांचे अध्ययन होते.
Sem. H		CO4. भाषा उपयोजनाची विविध आविष्कार रुपे परिचित होतात.
	MIL – 2, (23011) Marathi Bhashik Sandynapankaushalye	सहसंबंध लक्षात येतो. CO2. विद्यार्थ्यांची प्रगत भाषिक कौशल्य क्षमता विकसित होते. CO3. लोकशाहीतील जीवनव्यवहार आणि प्रसारमाध्यमे यांचे परस्पर संबंध समजतात. CO4. प्रसारमाध्यमांसाठी लेखनक्षमता विकसित होते.
SYBA (CBCS-2020) Sem. III	S 1, [DSE-1A (3)] (23021), Adhunik Marathi Sahitya : Prakashvata	CO1. विद्यार्थ्यांना ललित गद्यातील अन्य साहित्यप्रकारच्या तुलनेत आत्मचरित्राचे वेगळेपण समजते . CO2. मराठी आत्मचरित्राचे स्वरूप, संकल्पना लक्षात येते . CO3. विद्यार्थ्यांना प्रकाशवाटा या आत्मचरित्राचे आकलन, आस्वाद आणि विश्लेषण करता येते .
	S-2, DSE-2A, (23022), Sahitya Vichar	CO1. विद्यार्थ्यांना साहित्याची संकल्पना, स्वरूप आणि प्रयोजन ज्ञात होते . CO 2. साहित्याची निर्मितीप्रक्रिया समजते . CO 3. साहित्याची भाषा आणि शैलीविचार यांचे आकलन होते .
	G-2, [CC-1C], (23023), Bhashik Kaushalyavikas Ani Adhunik Marathi	CO 1. विद्यार्थ्यांचा उपयोजित मराठी व भाषिक कौशल्यविकास होतो . CO 2. कादंबरी या साहित्यप्रकाराचे स्वरूप, घटक, प्रकार आणि

	Sahityaprakar : Kadambari	वाटचाल समजते.
		CO 3. विद्यार्थी 'रारंग ढंग' या कादंबरीचे आकलन, आस्वाद आणि
		विश्लेषण करतात.
		CO 1. विद्यार्थ्यांना प्रकाशनविश्वाची ओळख होते .
		CO 2. प्रकाशन व्यवहार आणि संपादन यासाठी आवश्यक
	SEC-2A, (23025) Prakashan	असणारी कौशल्ये लक्षात येतात .
	Vyavahar Ani Sampadan	CO 3. विद्यार्थी प्रकाशन संस्था आणि वितरण व्यवस्था यांना
		प्रत्यक्ष भेटी देऊन प्रशिक्षण घेतात .
		CO 4. मराठी शुद्धलेखन नियमावलीनुसार विद्यार्थी लेखन
		करतात.
		CO1. विद्यार्थ्यांना संज्ञापनातील नवमाध्यमे आणि
		समाजमाध्यमांचे स्वरूपाचे आकलन होते .
	MIL- 2 (2), 24011, Navamadhyame Ani	CO2. विद्यार्थ्यांमध्ये नवमाध्यमे आणि समाजमाध्यमांसाठी
	Samajmadhyamansathi	लेखनक्षमता विकसित होते .
	Marathi	CO3. विद्यार्थ्यांमध्ये नवमाध्यमे आणि समाजमाध्यमांविषयी
		साक्षरता, वापर आणि परिणाम याविषयीची जाणीवजागृती
		होते.
	S-1-(DSE-1B) (24021) Madhyayugin Marathi Sahitya : Nivdak	CO1. विद्यार्थ्यांना मध्ययुगीन गद्य - पद्य साहित्य प्रकारांची ओळख
		होते.
		CO2. विद्यार्थ्यांमध्ये गद्य-पद्याचे आकलन आणि आस्वाद
	Madhyayugin Gadya-Padya	करण्याची क्षमता प्राप्त होते .
		CO3. निवडक मध्ययुगीन गद्य, पद्य यांचे विश्लेषण करता येते .
SYBA (CBCS-2020)	2020)	CO 1. विद्यार्थ्यांना साहित्य समीक्षेची संकल्पना, स्वरूप यांचा
Sem. IV		परिचय होतो .
Sahit G-2		CO 2. साहित्य आणि समीक्षा यांचे परस्पर संबंध लक्षात येतात .
		CO 3. ग्रंथ परिचय, परीक्षण व समीक्षण यातील फरक
		विद्यार्थ्यांना समजतो.
		CO 1. विद्यार्थ्यांना सायबर संस्कृतीची ओळख होते .
	G-2 [CC-1D (3)] (24023) Bhashik Kaushalyayikas	CO 2. ललित गद्य या साहित्यप्रकारचे स्वरूप, घटक समजतात .
	Bhashik Kaushalyavikas Ani Adhunik Marathi Sahityaprakar : Lalit Gadya	CO 3. विद्यार्थ्यांना 'साहित्यरंग' या ललित गद्याचे आकलन होते .
		CO 4. नेमलेल्या अभ्यासपुस्तकाचे विद्यार्थी आस्वाद आणि
		विश्लेषण करतात
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		CO 1. जाहिरात आणि मुलाखतलेखन याविषयीची आवश्यक
	SEC- 2 B(2) 24025,	कौशल्ये अवगत होतात .
	Upayojit lekhankaushalye	CO 2. विद्यार्थी माहितीपर नोंदी करावयास शिकतो .
		CO 3. विद्यार्थ्यांना उपयोजित लेखनकौशल्ये अवगत होतात .
		CO 1. विद्यार्थ्यांना वाड् . मयाचा इतिहास, संकल्पना, स्वरूप,
		प्रेरणा, प्रवृत्ती समजतात .
	S-3, DSE-1D (35021),	CO 2. मध्ययुगीन कालखंडाची सामाजिक, सांस्कृतिक पार्श्वभूमी
	Madhyayugin	लक्षात येते.
	MarathiVangamayacha Sthul Itihas : Prarambh Te A. D.	CO 3. मराठी साहित्याचा कालखंडानुरूप इतिहास समजून येतो .
		CO 4. मराठी वाड् . मयाचा स्थूल इतिहास अभ्यासल्यानंतर
		विद्यार्थी संशोधन प्रकल्पाचे लेखन करतो .
		CO 1. विद्यार्थ्याला भाषेचे स्वरूप, वैशिष्ट्ये आणि कार्य समजते .
		CO 2. भाषा अभ्यासाच्या शाखा आणि विविध पद्धतींचा परिचय
ТҮВА		होतो.
(CBCS-2021)	S-4, DSE-2C, (35022)	CO 3. विद्यार्थ्यांना मानवी वागिन्द्रियाची रचना आणि कार्य
Sem. V	Varnatmak Bhashavidyan : Bhag-1	समजते.
		CO 4. विद्यार्थ्यांना मराठीची स्वनिम व्यवस्था समजते .
		CO 5. अभ्यास विषयाच्या अनुषंगाने विद्यार्थी संशोधनपर प्रकल्प
		लेखन करतात.
		CO 1. विद्यार्थी मुद्रित माध्यमांसाठी लेखन कौशल्ये आत्मसात
	G-3, CC-1E, (35023) Bhashik Kaushalyavikas Ani Adhunik Marathi Sahitya Prakar : Prav	करतो.
		CO 2. प्रवासवर्णन या साहित्य प्रकाराचे स्वरूप समजते .
		CO 3. 'तीन मुलांचे चार दिवस' या प्रवासवर्णनाचे विद्यार्थी
		विश्लेषण करतात.
		ापलपण भरतात. CO 1. विद्यार्थ्यांना मराठी भाषेची संवाद कौशल्ये अवगत
	SEC- 2C (35025) Karyakram Sanyojanatil Bhashik Kaushalye : Bhag 1	होतात.
		CO 2. विद्यार्थी कार्यक्रमांचे स्वरूप आणि प्रकार समजून घेतो .
		CO 3. विद्यार्थ्यांना कार्यक्रम संयोजनातील भाषिक कौशल्ये प्राप्त
		होतात.
		CO 4. अभ्यासक्रमाचे अध्ययन केल्यानंतर विद्यार्थी 'मराठी भाषा
		दिन' कार्यक्रमाचे संयोजन करतात .
	S-3, DSE-1D, (36021),	CO 1. विद्यार्थी काळानुरूप वाड् . मयनिर्मितीचे आकलन करून
	Madhyayugin	

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	MarathiVangamayacha Sthul	मूल्यमापन करतात .
	Itihas : A.D. 1601	CO 2. विद्यार्थी शिवकाल आणि पेशवेकाळातील सामाजिक,
		सांस्कृतिक पार्श्वभूमी अभ्यासतात .
		CO 3. विद्यार्थ्यांना बखर आणि गद्य वाड् . मयनिर्मितीचे आकलन
		होते.
		CO 4. वारकरी पंथाचा अभ्यास करण्यासाठी विद्यार्थी क्षेत्र भेट
		देऊन संशोधनपर प्रकल्प लेखन करतात .
ТҮВА		CO 1. रूपविन्यास आणि मराठीची रूपव्यवस्था लक्षात येते .
(CBCS-2021)		CO 2. वाक्यविन्यास आणि वाक्यव्यवस्थेचा मराठी
Sem. VI	S-4, DSE-2D, (36022)	भाषेच्यासंदर्भात परिचय होतो.
	Varnatmak Bhashavidyan :	CO 3. विद्यार्थ्यांना अर्थविन्यास संकल्पना समजते .
	Bhag-2	CO 4. अभ्यास विषयाच्या अनुषंगाने विद्यार्थी क्षेत्रकार्य विषयक
		प्रकल्प लेखन करतात .
	G 3 CC 1E (36023)	CO 1. विद्यार्थ्यांना मराठी साहित्य, भाषिक कौशल्यविकास
	G-3, CC-1F, (36023) Bhashik Kaushalyavikas Ani Adhunik Marathi Sahitya	आणि शासनव्यवहार याची माहिती समजते .
		CO 2. कविता या साहित्यप्रकाराचे स्वरूप आकलन होते .
	Prakar : Kavi	CO 3. 'रूप: कवितेचे' या संपादित अभ्यासपुस्तकाचे विद्यार्थी
		आकलन, आस्वाद आणि विश्लेषण करतो .
		CO 1. विद्यार्थी कार्यक्रम संयोजनातील लेखन कौशल्ये संपादन
	SEC- 2C (36025)	करतात.
	Karyakram Sanyojanatil	CO 2. आभासी कार्यक्रमांचे भाषिक कौशल्ये प्राप्त करतात .
	Bhashik Kaushalye : Bhag 2	CO 3. विद्यार्थी कार्यक्रमाचे प्रभावी संयोजन आणि सूत्रसंचालन
		करतात .
		CO 1. विद्यार्थी उत्स्फूर्तपणे निबंध लेखन करतात .
FYBCom (CBCS-2019) Sem. I	117 B, Bhasha Sahity Ani Kayshalvikas :	CO 2. विद्यार्थ्यांना विविध क्षेत्रातील भाषा व्यवहाराचे स्वरूप
		समजते.
		CO 3. 'उत्कर्षवाटा' या अभ्यासपुस्तकाच्या माध्यमातून
		कर्तृत्ववान व्यक्तींच्या कार्याची व विचारांची ओळख होते.
		CO 1. भाषा आणि कौशल्यविकास या माध्यमातून विद्यार्थी
		व्यावहारिक मराठीचे उपयोजन करतो .
FYBCom	127B, Bhasha Ani	Ň NA
(CBCS-2019)	Kaushalyavikas	CO 2. विद्यार्थी अर्जलेखन व पत्रलेखन अचूक करतो .
Sem. II		CO 3. प्रशासनिक मराठीचे महत्त्व समजते .
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SYBSc (CBCS-2020) Sem. III (AECC-2A) 33/ 23331, Upyojit Marathi CO 1. विचार्थ्यांना भाषा आणि जीवनव्यवहार यांच्या परस्परसंबंधाची जाणीव होते. SYBSc (CBCS-2020) Sem. III (AECC-2A) 33/ 23331, Upyojit Marathi CO 2. मराठी भाषेचा परिभाषासापेक्ष आणि शैलीसापेक्ष विकास विच्चार्थ्यांच्या लक्षात येते. SYBSc (CBCS-2020) Sem. IV (AECC-2B) 24331, Marathi Sahiya CO 1. विचार्थ्यांमध्ये साहित्यविषयक अभिरुची निर्माण होते. CO 2. साहित्यविषयक अभ्यासातून जीवनविषयक समज विकसित होते. CO 3. विचार्थ्यांमध्ये विज्ञानसाहित्यविषयक आकलनञ्रमता वाढते. SYBSc (CBCS-2020) Sem. IV (AECC-2B) 24331, Marathi Sahiya CO 1. विचार्थ्यांमध्ये विज्ञानसाहित्यविषयक अभरुची निर्माण होते. CO 3. विचार्थ्यांमध्ये विज्ञानसाहित्यविषयक अभरुची निर्माण होते. CO 3. विचार्थ्यांमध्ये विज्ञानसाहित्यविषयक आकलनञ्रमता वाढते. CO 4. विचार्थ्यां अचुक निर्वध्रतेखन करतात. DEPARTMENT OF HINDI - 2021-22 Class Course Outcomes CO1. छात्रों को हिंदी साहित्य के काव्य तथा कहानियों का परिचय प्राप्त होगा। CO2. हिंदी भाषा में संप्रेषण कैश्वल विकसित होगा । (1091-1- A) CO3. मीलिक लेखन की ओर रुझान बढेगा । CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होगा । CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होती हैं। CO2. विज्ञाप्य, निर्बध तथा स्वतृत लेखन कैशल विकसित होती हैं । (CBCS-2019) CO1. छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित होते हैं । Semester –I &			विद्यार्थ्याला जाहिरातशास्त्र समजून येते .
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SYBSe (cBCS-2020) Sem. III (AECC-2A) 33/ 23331, Upyojit Marathi CO 2. मराठी भाषेचा परिभाषासापेक्ष आणि शैलीसापेक्ष विकास विद्यार्थ्यांच्या लक्षात येतो. Sem. III (AECC-2B) 24331, Marathi CO 3. विद्यार्थ्यांच्या लक्षात येतो. CO 3. विद्यार्थ्यांच्या लक्षात येतो. SYBSe (CBCS-2020) (AECC-2B) 24331, Marathi CO 1. विद्यार्थ्यांच्या मध्ये वकसित होता त. CO 3. विद्यार्थ्यांच्या मध्ये विकसित होता त. SYBSe (CBCS-2020) (AECC-2B) 24331, Marathi Sahitya CO 1. विद्यार्थ्यांमध्ये विजानसाहित्यविषयक आरुलनक्षमता वाढते. CO 3. विद्यार्थ्यांमध्ये विजानसाहित्यविषयक आरुलनक्षमता वाढते. DEPARTMENT OF HINDI - 2021-22 Class Course Outcomes CO1. छात्रों को हिंदी साहित्य के काव्य तथा कहानियों का परिचय प्राप्त होगा। CO2. हिंदी भाषा में संप्रेषण कौशल विकसित होगा। वैकल्पिक हिंदी (CBCS-2019) CO2. हिंदी भाषा में संप्रेषण कौशल विकसित होता हैं। Semester -I & II वैकल्पिक हिंदी (12092 1- B) CO1. छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित होते हैं। CO2. विज्ञापन, निबंध तथा स्ववृत्त लेघल को श्र रखाचित्र यात्रावर्णन, व्यंग्य CO3. वावय शुद्धीरुप्ण के कारण छात्र वर्तनीगत अशुद्धियों से परिचित होते हैं ।			The second s
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SYBSc (CBCS-2020) Sem. IV(AECC-2B) 24331, Marathi SahityaCO 2. साहित्यविषयक अभ्यासातून जीवनविषयक समज विकसित होते. CO 3. विद्यार्थ्यांमध्ये विज्ञानसाहित्यविषयक आकलनक्षमता बाढते. CO 4. विद्यार्थां अचूक निबंधलेखन करतात.DEPARTMENT OF HINDI - 2021-22ClassOutcomesCO1. छात्रों को हिंदी साहित्य के काव्य तथा कहानियों का परिचय प्राप्त होगा।FYBA Hindi Gen (CBCS-2019)CO2. हिंदी (11091-1- A)CO2. हिंदी भाषा में संप्रेषण कौशल विकसित होगा।FYBA Hindi Gen (CBCS-2019)CO3. मौलिक लेखन की ओर रुझान बढेगा । CO4. हिंदी काव्य तथा कहानी साहित्य से परिचित होती हैं। CO2. विज्ञापन, निबंध तथा कहानी साहित्य से परिचित होती हैं। CO2. विज्ञापन, निबंध तथा कहानी साहित्य से परिचित होते हैं । CO3. वाक्य शुद्धीकरण के कारण छात्र वर्तनीगत अशुद्धियों से परिचित होते हैं । CO4. साहित्य की विभिन्न विधाएं निबंध, रेखाचित्र, यात्रावर्णन, व्यंग्य			
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& II वैकल्पिक हिंदी CO3. वाक्य शुद्धीकरण के कारण छात्र वर्तनीगत अशुद्धियों से (12092 1- B) CO4. साहित्य की विभिन्न विधाएं निबंध, रेखाचित्र, यात्रावर्णन, व्यंग्य			CO3. मौलिक लेखन की ओर रुझान बढेगा । CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होगा ।
वैकल्पिक हिंदी (12092 1- B) CO3. वाक्य शुद्धांकरण के कारण छात्र वतनागत अशुद्धिया स परिचित होते हैं । CO4. साहित्य की विभिन्न विधाएं निबंध, रेखाचित्र, यात्रावर्णन, व्यंग्य	Gen		CO3. मौलिक लेखन की ओर रुझान बढेगा । CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होगा । CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं।
(12092 1- B) CO4. साहित्य की विभिन्न विधाएं निबंध, रेखाचित्र, यात्रावर्णन, व्यंग्य	Gen (CBCS-2019)		CO3. मौलिक लेखन की ओर रुझान बढेगा । CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होगा । CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO1. छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित होते हैं।
CO4. साहित्य की विभिन्न विधाएं निबंध, रेखाचित्र, यात्रावर्णन, व्यंग्य	Gen (CBCS-2019) Semester –I	(11091-1- A)	CO3. मौलिक लेखन की ओर रुझान बढेगा । CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होगा । CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO1. छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित होते हैं। CO2. विज्ञापन, निबंध तथा स्ववृत्त लेखन कौशल विकसित होता है ।
त्रभा गत्कांकी आदि से काज मीनिज सेने हैं ।	Gen (CBCS-2019) Semester –I	(11091-1- A) वैकल्पिक हिंदी	 CO3. मौलिक लेखन की ओर रुझान बढेगा । CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होगा । CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO1. छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित होते हैं। CO2. विज्ञापन, निबंध तथा स्ववृत्त लेखन कौशल विकसित होता है । CO3. वाक्य शुद्धीकरण के कारण छात्र वर्तनीगत अशुद्धियों से
מימו פיזיא אונימת פות פ	Gen (CBCS-2019) Semester –I	(11091-1- A) वैकल्पिक हिंदी	 CO3. मौलिक लेखन की ओर रुझान बढेगा । CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होगा । CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO1. छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित होते हैं। CO2. विज्ञापन, निबंध तथा स्ववृत्त लेखन कौशल विकसित होता है । CO3. वाक्य शुद्धीकरण के कारण छात्र वर्तनीगत अशुद्धियों से परिचित होते हैं ।
CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं।	Gen (CBCS-2019) Semester –I	(11091-1- A) वैकल्पिक हिंदी	 CO3. मौलिक लेखन की ओर रुझान बढेगा । CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होगा । CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO1. छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित होते हैं। CO2. विज्ञापन, निबंध तथा स्ववृत्त लेखन कौशल विकसित होता है । CO3. वाक्य शुद्धीकरण के कारण छात्र वर्तनीगत अशुद्धियों से परिचित होते हैं ।
हिंदी सामान्य पेपर २ CO1. छात्र हिंदी के प्रतिनिधि कहानीकार और कवियों से परिचित	Gen (CBCS-2019) Semester –I	(11091-1- A) वैकल्पिक हिंदी	 CO3. मौलिक लेखन की ओर रुझान बढेगा । CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होगा । CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO1. छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित होते हैं। CO2. विज्ञापन, निबंध तथा स्ववृत्त लेखन कौशल विकसित होता है । CO3. वाक्य शुद्धीकरण के कारण छात्र वर्तनीगत अशुद्धियों से परिचित होते हैं । CO4. साहित्य की विभिन्न विधाएं निबंध, रेखाचित्र, यात्रावर्णन, व्यंग्य तथा एकांकी आदि से छात्र परिचित होते हैं ।
SYBA (23093) होते है।	Gen (CBCS-2019) Semester –I	(11091-1- A) वैकल्पिक हिंदी (12092 1- B)	 CO3. मौलिक लेखन की ओर रुझान बढेगा । CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होगा । CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO1. छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित होते हैं। CO2. विज्ञापन, निबंध तथा स्ववृत्त लेखन कौशल विकसित होता है । CO3. वाक्य शुद्धीकरण के कारण छात्र वर्तनीगत अशुद्धियों से परिचित होते हैं । CO4. साहित्य की विभिन्न विधाएं निबंध, रेखाचित्र, यात्रावर्णन, व्यंग्य तथा एकांकी आदि से छात्र परिचित होते हैं । CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं।
(CBCS-2019) (आधुनिक काव्य CO2. छात्र हिंदी के प्रयोजनमूलक पक्ष से अवगत होते हैं।	Gen (CBCS-2019) Semester –I & II	(11091-1- A) वैकल्पिक हिंदी (12092 1- B) हिंदी सामान्य पेपर २	 CO3. मौलिक लेखन की ओर रुझान बढेगा । CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होगा । CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO1. छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित होते हैं। CO2. विज्ञापन, निबंध तथा स्ववृत्त लेखन कौशल विकसित होता है । CO3. वाक्य शुद्धीकरण के कारण छात्र वर्तनीगत अशुद्धियों से परिचित होते हैं । CO4. साहित्य की विभिन्न विधाएं निबंध, रेखाचित्र, यात्रावर्णन, व्यंग्य तथा एकांकी आदि से छात्र परिचित होते हैं । CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO1. छात्र हिंदी के प्रतिनिधि कहानीकार और कवियों से परिचित
कहानी तथा CO3. भाषा तंत्र का उपयोग एवं लेखन कौशल विकसित होता है ।	Gen (CBCS-2019) Semester –I & II SYBA	(11091-1- A) वैकल्पिक हिंदी (12092 1- B) हिंदी सामान्य पेपर २ (23093)	 CO3. मौलिक लेखन की ओर रुझान बढेगा । CO4. हिंदी कंप्यूटिंग का सामान्य परिचय होगा । CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO1. छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित होते हैं। CO2. विज्ञापन, निबंध तथा स्ववृत्त लेखन कौशल विकसित होता है । CO3. वाक्य शुद्धीकरण के कारण छात्र वर्तनीगत अशुद्धियों से परिचित होते हैं । CO4. साहित्य की विभिन्न विधाएं निबंध, रेखाचित्र, यात्रावर्णन, व्यंग्य तथा एकांकी आदि से छात्र परिचित होते हैं । CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO5. राष्ट्रप्रेम, सामाजिक प्रतिबद्धता की भावना विकसित होती हैं। CO1. छात्र हिंदी के प्रतिनिधि कहानीकार और कवियों से परिचित होते हैं।

	व्यावहारिक हिंदी)	CO4. साहित्य की विभिन्न विधाओं से परिचित हो जाते हैं और उनमें
		सर्जनात्मक कौशल का विकास होता है।
		CO1. भारतीय काव्यशास्त्र में रुचि पैदा होती है तथा आलोचनात्मक दृष्टि
		विकसित होती है।
	हिंदी स्पेशल पेपर-1	CO2. छात्र साहित्य की विविध विधाओं से परिचित होते हैं।
	काव्यशास्त्र सामान्य	CO3. छात्र अपनी अभिव्यक्ति में शब्द शक्ति का प्रयोग करने लगते
	[23091] DSE-1A	हें ।
		CO4. छात्र महाकाव्य, खंडकाव्य और मुक्तक काव्य से परिचित होता
		है। साथ ही नाट्य अभिनय कला को आत्मसात करता है।
		CO1. मध्ययुगीन प्रतिनिधि कवियों के योगदान तथा उनकी वैचारिक
		पृष्ठ्भूमि से छात्र परिचित होते हैं।
		CO2. छात्र हिंदी उपन्यास एवं नाटक की समीक्षा करते हैं। साथ ही
	उपन्यास, नाटक तथा	हिंदी उपन्यास तथा नाटक के अध्ययन में रुचि निर्माण होती हैं
	मध्ययुगीन हिंदी काव्य	I
	23092 DSE2 A	CO3. साहित्य कृतियों के माध्यम से छात्र जीवनमूल्या को आत्मसात
		करना।
		CO4. विवेच्य साहित्य कृतियों के शिल्प तथा भाव पक्ष से परिचित होते
		है. साथ ही उनमें अभिनय कौशल विकसित होता है।
		CO1. छात्र अनुवाद की आवश्यकता एवं महत्त्व समझते है और उनमे
	SEC 2A	अनुवाद के माध्यम से रोजगार मिलने की आकांक्षा एवं रुची
	(CBCS-2019)	उत्पन्न होती है।
	अनुवाद स्वरूप एवं	CO2. छात्र अनुवाद के विविध क्षेत्रों से परिचित होते है।
	व्यवहार (23096)	CO3. छात्र हिंदी - मराठी प्रत्यक्ष् अनुवाद कार्य विधि से परिचित होते हैं
	SEC 2A	
	(CBCS-2019)	CO1. छात्र विविध माध्यमों के लिए लेखन विधि से परिचित होता है।
	माध्यम लेखन	CO2. छात्र लेखन कौशल तंत्र से अवगत होता है।
	(24096)	CO3. छात्र श्रव्य-दृश्य माध्यमों की भाषा से परिचित होता है।
		CO1. छात्र संस्मरण तथा रेखाचित्र विधा एवं साहित्य से परिचित होते
	Core Course -1E	हैं।
TYBA	(G-3)	CO2. छात्रों की समीक्षात्मक दृष्टि का विकास होता है।
Semester -V	कथेतर विधाएँ (35093)	CO3. सभा, इतिवृत्त लेखन तथा वार्ता लेखन कौशल विकसित होता
		है ।
	Discipline Specific	CO1. छात्र विशेष प्रश्नपत्र के रूप में हिंदी साहित्य के इतिहास के
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	Elective DSE 1 C	कालविभाजन, नामकरण तथा अन्यान्य ऐतिहासिक पहलुओं के
	(\$3)	अध्ययन से परिचित होते हैं
	हिंदी साहित्य का	CO2. हिंदी साहित्य के आदिकाल, भक्तिकाल तथा रीतिकाल की
	इतिहास	पृष्ठभूमि, साहित्य, कवि एवं विशेषताओं से परिचित होते हैं।
	(35091) –(S-3)	CO3. परियोजना कार्य के माध्यम से छात्र किसी विशिष्ट रचनाकार तथा
		क्षेत्रीय कार्य का अध्ययन करना सीखते हैं
		CO1. छात्र भाषा विज्ञान के स्वरूप एवं व्याप्ति से परिचित होते हैं ।
	Discipline Specific	CO2. भाषा विज्ञान की दिशाओं के परिचय को समझते हुए उसके
	Elective 2 C (S4) भाषा विज्ञान सामान्य	अनुप्रयोगात्मक पक्ष को सीखते हैं ।
	मापा पिशान सामान्य परिचय (35092)	CO3. साहित्य के अध्ययन में भाषा विज्ञान की उपयोगिता एवं
	41844 (55092)	आवश्यकता को छात्र समझते हैं ।
		CO1. छात्र पटकथा लेखन कौशल से परिचित होते हैं।
	Skill Enhancement	CO2. छात्र दृश्य-श्राव्य माध्यमों के लिए पटकथा लेखन की आवश्यकता
	Course 2 C (SEC)	को समझते हैं ।
	(35096) पटकथा लेखन	CO3. पटकथा लेखन के माध्यम से रोजगार मिल सकता है, यह विश्वास
		छात्रों में निर्माण होता है ।
	Core Course -1F (G-	CO1. छात्र गजल विधा से परिचित होते हैं और उनमें समीक्षात्मक दृष्टि
TYBA Semester VI	3)	का विकास होता है ।
	गजल विधा और	CO2. छात्र अन्यान्य गजलकारों के व्यक्तित्व से परिचित होते हैं ।
	पत्राचार	CO3. छात्र सरकारी पत्रलेखन विधि से परिचित होते हैं और उसका
	(36093)	उपयोग अपने जीवन में करते हैं ।
	Discipline Specific	CO1. छात्र आधुनिक काल की पृष्ठभूमि से परिचित होते हैं।
	Elective 1 D (S3)	CO2. छात्र भारतेंदु युग, द्विवेदी युग तथा छायावादी काव्य की
	हिंदी साहित्य का	विशेषताओं से परिचित होते हैं ।
	इतिहास	
	(आधुनिक काल का	CO3. हिंदी गद्य के उद्भव एवं विकास से परिचित होकर आधुनिक
	सामान्य परिचय)	काल के प्रतिनिधि रचनाकार एवं रचनाओं से परिचित होते हैं ।
	(36091)	
	Discipline Specific	CO1. छात्र भाषा की विभिन्न परिभाषाओं तथा विविध रूपों से परिचित
	Elective 2 D (S4)	होते हैं ।
	हिंदी भाषा और उसका	CO2. छात्र नागरी लिपि के उद्भव और विकास तथा विशेषताओं से
	विकास (36092)	परिचित होते हैं ।
		CO3. परियोजना कार्य के माध्यम से छात्र भाषा के वर्तमान रूपों से

	Skill Enhancement Course SEC 2 D साहित्य और फिल्मांतरण-(36096)	परिचित होते हैं । CO1. छात्र सिनेमा के स्वरूप से बारिकी से परिचित होते हैं । CO2. छात्र हिंदी साहित्य एवं सिनेमा के अंतसंबंधों से परिचित होते हैं। CO3. साहित्य और फिल्मांतरण को समझते हुए हिंदी उपन्यास तथा कहानियों पर आधारित फिल्मों से परिचित होते हैं।
FYBCOM	हिंदी ऐच्छिक पेपर	CO1. साहित्य और वाणिज्य का परस्पर सबंध प्रतिपादित होगा। CO2. वाणिज्य और साहित्य के बीच पुल बांधा जाएगा। CO3. वाणिज्य हेतु संवाद कौशल विकसित होगा।
SYBSc	हिंदी ऐच्छिक पेपर (23095) AECC-2 A & B हिंदी काव्य तथा कहानी साहित्य	 CO1. छात्र साहित्य और विज्ञान के कार्यकारण भाव से परिचित होते हैं. CO2. छात्र कहानी तथा काव्य रचनाओं से परिचित होंगे और उनके भाव् एवं विचार प्रज्वलित होंगे. CO3. व्यवहारिक हिंदी भाषा की जानकारी प्राप्त होगी। CO4. काव्य एवं कहानी लेखन कौशल विकसित होकर साहित्यालोचन की दृष्टि विकसित होती है.

DEPARTMENT OF ENGLISH			
Class	Course	Outcomes (COs)	
F.Y. BCom (CBCS-2019) Semester-I &II [111/121]	Compulsory English	 CO1. The students are able to use English Language efficiently. CO2. Communicative skills are enhanced CO3. The verbal and non-verbal skills of communication are developed. CO4. The students learn the soft skills. 	
FYBA (CBCS-2019) Semester-I &II [11011/11012]	Compulsory English	 CO1. The students gain communicative competence required for everyday communication CO2. The students start vocabulary building for effective communication. CO3. The students get introduced to soft skills. CO4. He students could express themselves in oral and written communicative situations CO5. Students use the values learnt through literary works. 	
FYBA	Optional English	CO1. Students use the values learnt through literary	

(CBCS-2019)		works.
Semester-I &II		CO2. The students gain linguistic & communicative
[13331/13332]		competence
		CO3. The students get introduced to the sounds of
		English.
		CO4. Development of the comprehensive ability of
		students
		CO5. Inculcation of moral and human values among
		students.
		CO6. The students develop literary sensibility.
		CO7. Understanding of the basic forms of literature.
SYBA		CO1. The students learned to appreciate literature
(CBCS-2019)		CO2. Oral and written communication improved.
Semester-III	Compulsory English	CO3. Vocabulary is enhanced
&IV	Compulsory English	CO4. The students learned to make proper use of
[23001/24001]		grammar
		CO5. The students learned to use English efficiently.
	Skill Enhancement	CO1. They understood the difference between literary
SYBA	Course-SEC-1A -	and ordinary language
Semester-III &IV	Advanced Study	CO2. They became aware of fiction and short story
[23333/24333]	of English Language	CO3. The students were introduced to linguistics.
	and Literature	CO4. The students can appreciate literature critically.
	Discipline Specific	CO1. The Students learned performing arts
SYBA	Course-DSC: 1A	CO2. The students became aware of the genre of
Semester-III &IV	Appreciating	drama
[23331/24331]	Drama	CO3. The students learned the moralities of human life
	Diumu	CO4. They learned value education through literature
		CO1. The syllabus can implement the values of
SYBA	Discipline Specific	literature in life.
Semester-III &IV	Course-DSC:	CO2. The students develop approaches to appreciate
[23332/24332]	Appreciating Poetry	literary works.
SYBA	SEC: A Certificate	CO1. Students develop communication skills.
Semester-III &IV	Course in Skill	CO2. Students acquaint with the verbal and non-verbal
[23334/24334]	Development	communication.

		CO3. Students are able to express their ideas, views,
		thoughts in English.
		CO1. Students develop interpretative ability to study
		poetry.
		CO2. Students exercise communication skills
TYBA		effectively.
Semester-V &VI [35001/36001]	Compulsory English	CO3. Students develop literary abilities.
[55001/50001]		CO4. Students learn about profession-specific soft
		skills
		CO5. Students understand the basic concept of literary
		genre, poem, prose and stories
ТҮВА	SEC: Enhancing	CO1. The students develop analytical competence to
Semester-V &VI	Employability Skills	study language & literature.
[35333/36333]	Aspirations: English	CO2. The students develop the ability use language
	for Careers	appropriately
		CO1. The students are exposed to Indian writing in
ТҮВА		English and American literature.
Semester-V &VI	DSE: Appreciating	CO2. The students are exposed to social, political and
[35331/36331]	Novel	cultural background.
		CO3. The students develop the critical understanding
		literature.
ТҮВА		CO1. The students developed interpretative abilities.
Semester-V &VI	DSE: Introduction to	CO2. The students leaned to analyze, interpret and
[35332/36332]	Literary Criticism	evaluate literature.
		CO3. The students became aware of different critical
		approaches
ТҮВА	SEC: Mastering Life	CO1. Students develop communication skills.
Semester-V &VI [35334/36334]	Skills and Life	CO2. Students acquaint with the verbal and non-verbal
	Values	communication.
		CO3. Students are able to express their ideas, views,
		thoughts in English.
DEPARTMENT OF ECONOMICS		

Class	Course	Outcomes
F.Y.B. A .	Indian	CO-1.To familiarize the students with the recent developments
SEM-I & II	economic	in the Indian Economy

	enviournment-	CO-2. To provide the students with the background of the
	11151/11152	Indian Economy with focus on contemporary issues like
	11101/11102	economic environment.
		CO-3. To help the students to prepare for varied competitive
		examinations
		CO-4. To enable students to understand and comprehend the
		current business scenario, agricultural scenario and other
		sectorial growth in the Indian context. To make the
		student aware of the developments such as MSMEs,
~ ~ ~ ~		Digital Economy, E-Banking, BPO & KPO, etc.
S.Y.B. A.	Financial	CO-1. To understands fundamentals of modern financial
SEM-III &	System	system.
IV	(G2)	CO-2. To understand the recent trends and developments in
		banking system.
		CO-3. To understand the role of the Reserve Bank of India in
		Indian financial system.
		CO-4. To provide the knowledge of various financial and non-
		financial institutions.
		CO-5. To provide the students the intricacies of Indian financial
		system for better Financial decision making.
S.Y. B. A.	Micro	CO-1. To develop an understanding about subject matter of
SEM-III &	Economics	Economics.
IV	(S-1)	CO-2. To impart knowledge of microeconomics.
		CO-3. To clarify micro economic concepts
		CO-4.To analyze and interpret charts, graphs and figures
		CO-5. To develop an understanding of basic theories of micro
		economics and their Application.
		CO-6. To demonstrate that the theories discussed in class will
		usually be applied to Real-life situations.
		CO-7. To help the students to prepare for varied competitive
		examinations
S.Y. B. A	Macro	CO-1. To introduce students to the historical background of the
SEM-III &	Economics	emergence of Macroeconomics.
IV	(S2)	CO-2. To familiarize students with the differences between
		microeconomics and macroeconomics.

		CO-3. To familiarize students with various concepts of national
		income.
		CO-4. To familiarize students with Keynesian macroeconomic
		theoretical framework of consumption and investment
		functions.
		CO-5. To introduce students to the role of money in an
		economy.
		CO-6. To introduce students to the conceptual and theoretical
		frameworks of Inflation, deflation and stagflation,
		Business Cycle. To familiarize students with the
		conceptual and theoretical framework of business cycles.
		CO-7. To introduce students to the role of monetary and fiscal
		policies in fulfilling the macroeconomic objectives of
		stability, full employment and growth.
		CO-8. To introduce students to the various instruments of
		monetary and fiscal policies
T.Y.B.A.	G-3: Indian	CO-1. The Study of Economic Development has gained
SEM-V/VI	Economic	importance because of stained interest of the developing
	Development	countries in uplifting their economic conditions
		restructuring their economics to acquire greater diversity,
		efficiency and equity in Consonance with their priorities.
		CO-2. While few success stories can be counted, many have
		grappled with chronic problems of narrow economic
		Base, inefficiency and low standard of living. For this
		and other reasons, there have been many Approaches to
		economic development.
		CO-3. In recent times, besides hard core economic prescriptions
		to development, concern hitherto relegated to
		background, like education, health, sanitation and
		infrastructural development, have found place of pride in
		explaining the preference of various
T.Y.B.A.	S-3: International	CO-1. This course provides the students a thorough
SEM-V/VI	Economics	understanding and deep knowledge about the basic
		principles that tend to govern the free flow of trade in
		goods and services at the global level.

		CO-2. The contents of the Paper spread over various modules, lay stress both on theory and Applied nature of the
		subject that have registered rapid changes during the last
		decade.
		CO-3.the students to know the impact of free trade and tariffs
		on the different sectors of the economy as well as at the
		macro level.
		CO-4. The students would also be well trained about the
		rationale of recent changes in the export import policies
		of India.
T.Y.B.A.	S-4: Public	CO-1. Role and functions of the Government in an economy has
SEM-V/VI	Finance	been changing with the Passas of
		CO-2. There is vast array of fiscal institutions -tax systems,

DEPARTMENT OF POLITICS

Class	Course	Course outcomes
FYBA	Introduction to	CO1. Students enable to understand the philosophy of
(G-I)	Indian Constitution	Indian constitutions.
SEM-I	(1167)	CO2. Students enable to understand the basic doctrine of
& II		Indian Constitution.
		CO3. Students enable to understand the various
		Government of Indian acts their provision and
		reforms.
		CO4. Students enable to appreciate the fundamental rights
		and duties and the directive principle of state policy
		CO5. Students enable to evaluate the evolution, functioning
		and consequences of political parties in India.
		CO6. Students enable to identify how electoral rules and
		procedure in India effect election outcomes.
SYBA	Political Theory	CO 1. Students enable to appreciate the procedure of
(G-2)	(2167)	different theoretical ideas in political theory.
SEM-		CO2. Students enable to appreciate the procedure of
III &		different theoretical ideas in political theory.
IV		CO3. Students enable to understand the various traditional
		and modern theories of political science.
		CO4. Students enable to evaluate the theories of origin of

		the state.
ТҮВА	Local Self	CO1. Students enable to understand the nature of Ideology.
(G-III)	Government in	CO 2. Students enable to understand the contributions of various
SEM-	Maharashtra	ideologies in practices in the World.
V & VI		CO3. Students enable to describe the role and impact of
		different Political Ideologies in Politics.
		CO4.Students enable to describe the significance of
		Ideologies.

	DEPARTMENT OF HISTORY		
Class	Course	Course outcomes	
FYBA	Early India: From	CO-1. Understand the history of early India.	
(G-I)	Prehistory to the Age	CO-2. Know the rise, growth and spread of civilization and	
SEM-I	of the Mauryas	culture of India along with the dynastic history.	
& II		CO-3. Understand the contribution of Early Indians to	
		polity, art, literature, philosophy, religion and	
		science and technology.	
		CO-4. Develop the spirit of enquiry among the students by	
		studying the major developments in Indian history.	
SYBA	CC-1(3) History of the	CO -1. Develop the ability to analyse sources for Maratha	
(G-2)	Marathas: (1630-	History.	
SEM-	1707)	CO-2. Learn significance of regional history and political	
III	CC-2(3) History of the	foundation of the region.	
SEM-	Marathas: (1707-	CO-3. Enhance their perception of 17th century	
IV	1818)	Maharashtra and India in context of Maratha	
		history.	
		CO-4. Appreciate the skills of leadership and the	
		administrative system of the Marathas.	
ТҮВА	CC- 3(3) Indian	CO-1. Enable students to develop an overall understanding	
(G-III)	National Movement	of Modern India.	
SEM-V	(1885-1947)	CO-2. Increase the spirit of healthy Nationalism,	
& VI	CC-4(3) India After	Democratic Values and Secularism among the	
	Independence- (1947-	Students.	
	1991)		

DEPARTMENT OF HISTORY

<u>г г</u>		CO 3 Understand various aspects of the Indian
		CO-3. Understand various aspects of the Indian
		Independence Movement and the creation of
		Modern India.
		CO-4. Understand various aspects of India's domestic and
		foreign policies that shaped Post-Independence
		India
	DEPAR	RTMENT OF GEOGRAPHY
Class	Course	Outcomes
F.Y.B.A.	Physical Geography	CO-1. Students have become able to conceptualize the
2019 Credit	Gg110 A	elements of physical features and basic concepts in
Pattern		Physical Geography
		CO-2. Students have become able to imagine and
		recognize the major topographical, geological, soil
		and natural vegetation regions of local and global
		level.
		CO-3. Students have applied their subject knowledge with
		help of GIS based open source software in the day
		today life.
		CO-4. Students have become able to examine the various
		issues, problems and challenges associated with the
		physical regions.
		CO-5. Students have developed life-long learning skill and
		keep them engaged in updating geography related
		knowledge.
	Human Geography	CO-1. The Students have understood demographic
	Gg110 B	composition
		CO-2. Students have imagined and recognize urbanization,
		population density and literacy.
		CO-3. Students have identified and describe social,
		cultural, economic and population dynamics of
		society.
		CO-4. Students have able to understand patterns and
		processes of population growth and its implications
S.Y.B.A.	Environmental	CO-1 Student will be familiar with the dynamic nature of
2019 Credit	Geography-I	the environment

Pattern		CO-2 Students will be get acquainted with the fundamental
		concepts of Environmental Geography for
		development in different areas
		CO-3 They will be integrating various factors of
		Environment and dynamic aspect of Environmental
		Geography
		CO-4 Student will be aware of the problems of
		environment, utilization and conservation of
		resources in view of sustainable development
	Environmental	CO-1 Students will be aware about the dynamic
	Geography -II	environment
		CO-2 Students will get acquainted with the fundamental
		concepts of Environmental Geography
		CO-3 Students will get acquainted with the past, present
		and future utility and potentials of natural resources
		CO-4 Students will aware about the problems of
		environment and they will know the concept of
		sustainable development
	Population	CO-1 Students will understand the history of population
	Geography-I	CO-2 They will know the basic concepts in Population
		Geography
		CO-3 They will know the types and sources of population
		data
	Population	CO-1 Students will know the population policy of India
	Geography-II	and China
		CO-2 They will know the health indicators of India
		CO-3 Students will be get acquainted with the concept of
		urbanization in Population Geography
		CO-4 They will understand the Population theories
	Practical Geography-	CO-1 Students will know the basic concepts in Population
	Ι	Geography
	(Scale and Map	CO-2 Students will be enabled to use various scales and
	Projection)	projection techniques in Geography
		CO-3 Students will use various projections for map making
		CO-4 They will be familiar with the elementary and

		essential principles of practical work in Geography
	Practical Geography-	CO-1 Students will know the basic and contemporary
	II (Cartographic	concepts in Cartography
	Techniques,	CO-2 Students will get acquainted with the utility and
	Surveying and	applications of various cartographic techniques
	Excursion /Village/	CO-3 Students will know the latest concepts regarding the
	Project Report)	modern cartography in the field of Geography
		CO-4 Students will know the elementary and essential
		principles of practical work in Geography
T.Y.B.A.	Geography of	CO-1 Students will understand the history of tourism
2019 Credit	Tourism I and II	CO-2 They will know the basic concepts in tourism
Pattern		Geography
		CO-3 They will know the types of tourism
		CO-4 They will obtain the knowledge about different
		aspects of Tourism Geography
	Geography of India I	CO-1 Students will be familiar with the Geography of
	and II	India
		CO-2 They will be aware of the magnitude of problems
		and prospects of national level issues
		CO-3 Students will understand the interrelationship
		between the subject and the society
		CO-4 Students will understand the recent trends in regional
		India
	Practical Geography	CO-1 Students will get familiar with the basic concepts
	(Techniques of	and techniques of Geographical Analysis CO-2 They will read the SOI Toposheet and acquire
	Spatial Analysis) I	knowledge of its interpretation
	and II	CO-3 They know the weather maps and acquire the
		knowledge of its interpretation
		CO-4 Students will be introduced with the aerial photographs and satellite images and acquires
		knowledge to interpret it.
		CO-5 Students will get acquainted with the spatial and
		structural characteristics of Practical Geography
		CO-6 They will obtain the knowledge about elementary and essential principles on field of practical work
		and essential principles on field of practical work

	DEF	PARTMENT OF COMMERCE
Class	Course	Outcomes
F. Y.	Marketing	CO-1. Created awareness about market and marketing.
B. Com	and	CO-2. Established link between commerce/ Business and
[2019	Salesmanship	marketing.
[Pattern]		CO-3. Understood the basic concept of marketing.
SEM-I &		CO-4. Understood marketing philosophy.
II	Computer	CO-1. Familiar with Computer Environment.
	Concepts	CO-2. Familiar with the basics of Operating System and
	and Application	business communication tools.
		CO-4. Understood the basics of Network, Internet and
		related concepts.
	Banking	CO-1. To provide knowledge of fundamentals of Banking.
	and Finance	CO-2. To create awareness about various banking concepts.
		CO-3. To conceptualize banking operations.
	Business	CO-1. To impart knowledge of business economics.
	Economics	CO-2. To clarify micro economic concepts.
		CO-3. To analyze and interpret charts and graphs.
		CO-4. To understand basic theories, concepts of micro
		economics and their application.
	Financial	CO-1. To impart knowledge of basic accounting concepts.
	Accounting	CO-2. To create awareness about application of these
		concepts in business world.
		CO-3. To impart skills regarding Computerized
		Accounting.
		CO-4. To impart knowledge regarding finalization of
		accounts of various establishments.
S.Y.B.	Corporate	CO-1. To acquaint the student with knowledge about
Com	Accounting	various Concepts, Objectives and applicability of
[2019		accounting standards associated with to corporate
[Pattern]		accounting.
SEM-III		CO-2. To develop understanding among the students on the
& IV		difference between commencement and
		incorporation of a company and the accounting
		treatment for transactions during the two phases.

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	CO-3. To update the students with knowledge for
	preparation of final accounts of a company as per
	Schedule III of the Companies Act 2013
	CO-4. To empower to students with skills to interpret the
	financial statements in simple and summarized
	manner for effective decision making process.
	CO-5. To acquaint the student with knowledge about
	various Concepts, Objectives and applicability of
	some important accounting standards associated
	with to corporate accounting.
	CO-6. To develop understanding among the students on the
	difference between commencement and
	incorporation of a company and the accounting
	treatment for transactions during the two phases.
Business	CO-1. To understand the concept, process and importance
Communication	of communication.
	CO-2. To acquire and develop good communication skills
	requisite for business correspondence.
	CO-3. To develop awareness regarding new trends in
	business communication.
	CO-4. To provide knowledge of various media of
	communication.
	CO-5. To develop business communication skills through
	the application and exercises.
Corporate Law	CO-1. To develop general awareness of Elements of
Corporate Law	
	Company Law among the students.
	CO-2. To understand the Companies, Act 2013 and its
	provisions.
	CO-3. To have a comprehensive understanding about the
	existing law on formation of new company in India.
	CO-4. To create awareness among the students about legal
	environment relating to the company law.
	CO-5. To acquaint the students on e-commerce, E
	governance and e-filling mechanism relating to
	Companies.

	CO6. To enhance capacity of learners to seek the career
	opportunity in corporate sector
D	
Business	CO-1. To familiarize the students to the basic theories and
Economics	concepts of Macro Economics and their application.
	CO-2. To study the relationship amongst broad aggregates.
	CO-3. To impart knowledge of business economics.
	CO-4. To understand macroeconomic concepts.
	CO-5. To introduce the various concepts of National
	Income.
Business	CO-1. To provide basic knowledge and understanding about
Management	various concepts of Business Management.
	CO-2. To help the students to develop cognizance of the
	importance of management principles.
	CO-3. To provide an understanding about various functions
	of management.
	CO-4. To provide them tools and techniques to be used in
	the performance of the managerial job.
Business	CO-1. To provide basic knowledge about various forms of
Administration	business organizations
- I	CO-2. To acquaint the students about business environment
	and its implications thereon.
	CO-3. To make them aware about the recent trends in
	business.
	CO-4. To understand the concept of Business To understand
	the various perspectives to business
	CO-5. To know the various functions of Business
	Administration
Marketing	CO-1. To orient the student's recent trends in marketing
Management -	management
I	CO-2. To create awareness about marketing of eco-friendly
	products in the society through students
	CO-3. To inculcate knowledge of various aspects of
	marketing management through practical approach
	CO-4. To acquaint the students with the use of E-Commerce
	in competitive environment.

TYBAuditingCO-1. To acquaint themselves about the concept and principles of Auditing, Audit process, Assurance Standards, Tax Audit, and Audit of computerized Systems.[2019Standards, Tax Audit, and Audit of computerized Systems.SEM-V & VICO-2. To get knowledge about preparation of Audit report. CO-3. To understand the basic concepts and to acquire knowledge about Computation of Income. Submission of Income Tax Return, Advance Tax, and Tax deducted at Source, Tax Collection Authorities under the Income Tax Act, 1961BusinessCO-1. To acquaint students with the basic concepts, terms & provisions of Mercantile and Business Laws.FrameworkCO-2. To develop the awareness among the students regarding these laws affecting business, trade and commerce.AdvanceCO-1. To impart the knowledge about accounting procedures, methods and techniques.CO-3. To acquaint them with practical approach to account writing business and techniques.
[2019Standards, Tax Audit, and Audit of computerized Systems.[Pattern]Standards, Tax Audit, and Audit of computerized Systems.SEM-V &CO-2. To get knowledge about preparation of Audit report.VICO-3. To understand the basic concepts and to acquire knowledge about Computation of Income, Submission of Income Tax Return, Advance Tax, and Tax deducted at Source, Tax Collection Authorities under the Income Tax Act, 1961BusinessCO-1. To acquaint students with the basic concepts, terms & provisions of Mercantile and Business Laws.FrameworkCO-2. To develop the awareness among the students regarding these laws affecting business, trade and commerce.AdvanceCO-1. To impart the knowledge of various accounting procedures, methods and techniques.CO-3. To acquaint them with practical approach to accounts
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writing by using software package
Indian CO-1. To expose students to a new approach to the study of
Global the Indian Economy.
Economics CO-2. To help the students in analyzing the present status of
the Indian Economy.
CO-3. To enable students to understand the process of
integration of the Indian Economy with other
economics of the world.
CO-4. To acquaint students with the emerging issues in
policies of India's foreign trade.
Business CO-1. To acquaint the students with basic concepts &
Administrationfunctions of HRD and nature of Marketing functions
- II of a business enterprise. Concept and Importance.
CO-2. Performance Appraisal Process.
CO-3. Methods and Techniques.

	CO-4. Merits and limitations of performance appraisal	
Business	CO-1. To acquaint the students with the basic concepts in	
Administration	finance and production functions of a business	
- III	enterprise.	
	CO-2. Shares, Debentures, Public Deposits, Ploughing back	
	of profits, Loans from Bank and Financial	
	Institutions, Trade creditors, Installment credit etc.	
Marketing	CO-1. To understand the concept and functioning of	
Management -	marketing planning and sales management	
II	CO-2. To know marketing strategies and organization	
	CO-3. To inform various facets of marketing with	
	regulatory aspects	
	CO-4. To understand marketing in globalize scenario	
Marketing	CO-1. To know detailing of Marketing Research	
Management -	CO-2. To understand the role Brand and Distribution	
III	Management in marketing	
	CO-3. To inform about Marketing and Economic	
	Development	
	CO-4. To Know of the importance of control on marketing	
	activities	
MCom- I		

NICOI

Class	Course	Course Outcomes
	Management	CO-1. To enable students to acquire sound Knowledge of
[2019	Account	concepts, methods and techniques of management
[Pattern]	(Course Code -:	accounting.
SEM-I &	101)	CO-2. To make the students develop competence with their
II		usage in managerial decision making and control.
	Strategic	CO-1. To enable students to understand the nature and
	Management	Scope of Strategic Management.
	(Course Code -:	CO-2. To understand Strategy Formulation and Strategic
	102)	Analysis.
		CO-3. To know Strategic Planning, Choices/Options,
		Strategy Implementation, Functional Strategy and

		Strategic Review.
M.com I		
	Production and	Co-1. The objective of the course is to enable students to
	Operations	understand the Introduction to Production &
	Management	Operations Management.
	(Course Code -:	CO-2. To clear the concepts of Product Design and
	113)	Development, Production Planning & Control,
		Quality Management and Productivity.
	Financial	CO-1. To offer relevant, systematic, efficient and actual
	Management	knowledge of financial management.
	(Course Code -:	CO-3. To apply in practice with making financial decisions
	114)	and resolving financial problems.
		CO-4. To understand financial management.
	Marketing	CO-1. To study and critically analyze the basic concepts &
	Techniques	techniques of Marketing.
	(Course Code -:	CO-2. To understand Marketing, Marketing Organization.
	117)	CO-3. To know the concepts of Environment, Product Mix,
		Price and Place Mix, Promotion Mix/ Marketing
		Communication, People Process and Physical
		Evidence.
	Consumer	CO-1. To impart knowledge regarding marketing
	Behavior	management techniques and process.
	(Course Code -:	CO-2. To develop understanding of the marketing functions
	118)	techniques and strategies.
		CO-3. To study the Introduction to Consumer Behaviour
		and Market Segmentation.
		CO-4. To define the Perception, Elements of Perception,
		Consumer Learning and Memory.
	Financial	CO-1. To enable students to acquire sound knowledge of
	Analysis &	concepts, methods and techniques of management
	Control	accounting.
	(Course Code -:	CO-2. To develop competence with their usage in
	201)	managerial decision making and control.

	CO 3 To study the Long Term Investment Decisions Cast
	CO-3. To study the Long Term Investment Decisions, Cost
 .	of Capital and Marginal Costing.
Industrial	CO-1. To study the basic concepts of Industrial Economics.
Economics	CO-2. To study the significance and problems of
(Course Code -:	Industrialization.
202 – A)	CO-3. To study the impact of Industrialization on Indian
	Economy.
	CO-4. To study the Introduction of Industrial Economics,
	Industrial Location, Industrial and Productivity.
Business	CO-1. To enable students to Business Ethics and
Ethics and	Professional Values.
Professional	CO-2. To impart Gandhian Approach in Management and
Values	Trusteeship.
(Course Code -:	CO-3. To review new values in Indian Industries after
213)	economic reforms of 1991.
Elements of	CO-1. To enable students to study the Introduction to
Knowledge	Knowledge Management Process.
Management	CO-2.To impart organizational learning, management tools
(Course Code -:	management culture.
214)	
Customer	CO-1. To impart knowledge regarding customer
Relationship	relationship management, & retailing techniques,
Management &	process and tools.
Retailing	CO-2. To understand of the CRM & retailing functions
(Course Code -:	techniques and strategies.
217)	CO-3. To Study the CRM An Introduction, Emerging CRM,
	CRM and I.T.
Services	CO-1. To impart knowledge regarding services marketing,
Marketing	process and tolls.
(Course Code -:	CO-2. To develop understanding of the services marketing
218)	functions techniques and strategies.
Business Finance	CO-1. To enable students to acquire sound knowledge of
	concepts, nature and structure of business finance
	CO-2. To familiar with the characteristics of short term
	finance.

	Research	CO-1. To acquaint the students with the areas of Business
	Methodology for	Research Activities.
	Business	CO-2. To enhance capabilities of students to conduct the
	Dusiness	research in the field of business and social sciences.
Maam II		
M.com II		CO-3. To enable students, in developing the most
Semester		appropriate methodology for their research studies.
_		CO-4. To make them familiar with the art of using different
III and VI		research methods and techniques.
	Human	CO-1. To acquaint the students with in-depth knowledge of
	Resource	HRM.
	Management	CO-2. To inculcate various practices followed by HR
		managers.
		CO-3. To create understanding about recent trends in HRM.
	Organizational	CO-1. To make the students understand various concepts of
	Behavior	organization behavior.
		CO-2. To provide in depth knowledge about process of
		formation of group behavior in an organization set
		up.
	International	CO-1. To become more familiar with the nature and
	Marketing	practices of international marketing.
		CO-2. To be able to distinguish international marketing
		mechanics from the domestic marketing models and
		approaches.
		CO-3. To equip to design and participate in designing an
		international marketing strategy.
		CO-4. To develop right attitude, inject enthusiasm and
		hone their interactive ability as they address the
		issues and challenges of operating in the
		international markets.
	Montrating	
	Marketing	CO-1. To explain Scope & Significance Marketing Decision
	Research	Support System (MDSS).
		CO-2. To inculcate objective and subjective methods for
	~	Market and Sales Analysis, Sales forecasting.
	Capital Market	CO-1. To enable students to acquire sound knowledge,
	and Financial	concept and structure of capital market and financial

Services	services.
Industrial	CO-1. To study the basic concepts of Industrial Finance.
Economic	CO-2. To study the effects of New Economic Policy.
Environment	CO-3. To study the impact of Labor reforms on Industries
Recent Advance	CO-1. To familiarize the students with the recent
in Business	advancements in business administration
Administration	CO-2. To develop an understanding about tools and their
	application in the business.
Project Work in	CO-1. To develop research attitude of the students.
Business	CO-2. To enrich the ability of research work among the
Administration	students.
Recent	CO-1. To define process of creating marketing strategy.
Advantages	CO-2. To explain Global v/ s Local Marketing Strategy.
in Marketing	CO-3. Importance of Single Brand Retail and Multi Brand
	Retail.
	CO-4. History of FDI in Single Brand retail in India.
Project Work in	CO-1. To develop research attitude of the students.
advance	CO-2. To enrich the ability of research work among the
Marketing	students.

FACULTY OF SCIENCE

COURSE OUTCOMES [COs]

BSc-Chemistry

BSc-Chemistry		
Course	Course Outcomes F.Y. B. Sc. Chemistry	
	<u>Semester-I</u>	
CH-101	CO-1. Students will be able to apply thermodynamic principles	
Physical Chemistry	to physical and chemical process	
	CO-2. Understand the relation between Free energy and	
	equilibrium and factors affecting on equilibrium constant	
	and exergonic and endergonic reaction.	
	CO-3. Understand the Concept to ionization process occurred in	
	acids, bases and pH scale and related concepts such as	
	Common ion effect hydrolysis constant, ionic product,	
	solubility product	
	CO-4. Degree of hydrolysis and pH for different salts , buffer	
	solutions	
CH-102	CO-1. The students are expected to understand the fundamentals,	
Organic Chemistry	principles, and recent developments in the subject area	
	CO-2. To develop awareness of organic chemistry in day to day	
	life.	
	CO-3. To understand basic fundamental aspects of	
	pharmaceutical and	
	medicinal chemistry	
	CO-4. To familiarize with current and recent developments in	
	Chemistry.	
	Semester-II	
CH-201	CO-1. Understand the various theories and principles applied to	
Inorganic Chemistry	revel atomic structure Origin of quantum mechanics and	
	its need to understand structure of hydrogen atom	
	CO-2. Understand the rules for filling electrons in various	
	orbitals- Aufbau's principle, Pauli exclusion principle,	
	Hund's rule of maximum multiplicity.	
	CO-3. To understand and describe Block, group, modern	
	periodic law and periodicity.	
	CO-4. Write name, symbol, electronic configuration, trends and	

	properties.
CH-202	CO-1. Calculations of mole, molar concentrations and various
Analytical Chemistry	units of concentrations which will be helpful for
	preparation of solution.
	CO-2. Units such as parts per million, parts per billion, parts per
	thousand, solution-dilatant volume ratio, function density
	and specific gravity of solutions.
	CO-3. Basics of type determination, characteristic tests and
	classifications, reactions of different functional groups.
	CO-4. Basics of chromatography and types of chromatography.
CH-103, 203 : Chemistry	CO-1. Importance of chemical safety and Lab safety while
Practical	performing experiments in laboratory.
	CO-2. Determination of thermochemical parameters and related
	concepts and techniques of pH measurements.
	CO-3. Preparation of buffer solutions, elemental analysis of
	organic compounds (non- instrumental)
	CO-4. Chromatographic Techniques for separation of
	constituents of mixtures.
	CO-5. Inorganic Estimations using volumetric analysis
	CO-6. Synthesis of Inorganic compounds
	CO-7. Analysis of commercial products
	CO-8. Purification of organic compounds
Course	Course Outcomes S.Y. B. Sc. Chemistry
	Semester-III
СН-301	CO-1: Explain / discuss / derive integrated rate laws,
Physical and Analytical	characteristics, expression for half-life and examples of
Chemistry	zero order, first order, and second order reactions.
	CO-2: Derivations of collision theory and transition state
	theory of bimolecular reaction and comparison.
	CO-3: Explain adsorption, classification of give processes
	into physical and chemical adsorption.
	CO-4: Apply adsorption process to real life problem.
	CO-5: Apply statistical methods to express his / her analytical results in

CH-302	CO-1. Understand the terms related to molecular orbital
Inorganic & Organic	theory (AO, MO, sigma bond, pi bond, bond order,
Chemistry	magnetic property of molecules.
	CO-2. Understand and explain and apply LCAO principle for
	the formation of MO's from AO's.
	CO-3. Terms related to the coordination chemistry (double salt,
	coordination compounds, coordinate bond, ligand, central
	metal ion, complex ion, coordination number, magnetic
	moment, crystal field stabilization energy, types of ligand,
	chelate effected.)
	CO-4. Werner's theory of coordination compounds.
	CO-5. Identify, draw the structures, from structure name
	can be assign, synthesis, mechanism of reactions of
	aromatic hydrocarbons.
	CO-6. Identify and draw the structures alkyl / aryl halides,
	synthesis of alkyl / aryl halides, mechanism of
	Nucleophilic Substitution (SN^1 , SN^2 and SNi)
	reactions alkyl / aryl halides.
	CO-7. Identify and draw the structures alcohols / phenols
	from their names or from structure name can be
	assigned, differentiate between alcohols and
	phenols.
	Semester-IV
CH-401	CO-1. Understand the terms in phase equilibria such as-
Physical and Analytical	system, phase in system, components in system,
Chemistry	degree of freedom, one two component system, phase
	rule, etc.
	CO-2. Apply solvent extraction to separate the components
	of from mixture interest.
	CO-3. Apply conduct metric methods of analysis to real
	problem in analytical laboratory.
	CO-4. Apply colorimetric methods of analysis to real
	problem in analytical laboratory.
	CO-5. Apply column chromatographic process for real
	analysis in analytical laboratory.

CH-402	CO-1. Isomerism in coordination complexes different types of
Inorganic & Organic	isomerism in coordination complexes.
Chemistry	CO-2. Apply principles of VBT to explain bonding in coordination compound of different geometries. Correlate no of unpaired electrons and orbitals used for bonding, Identify /explain/discuss inner and outer orbital complexes.
	CO-3. Principle of CF, apply crystal field theory to different type of complexes (Td, Oh, Sq. Pl complexes), strong field and weak field ligand approach in Oh complexes.
	CO-4. Identify and draw the structures aldehydes and ketones from their names or from structure name can be assigned, synthesis, the mechanism reactions aldehydes and ketones.
	CO-5. Structures carboxylic acids and their derivatives from their names or from structure name can be assigned, synthesis of carboxylic acids and their derivatives,
	CO-6. Identify and draw the structures amines from their names or from structure name can be assign, synthesis of carboxylic amines, mechanism reactions carboxylic amines, diazonium salt from amines and reactions of diazonium salt.
CH-303, 403 Practical	CO-1. Verify theoretical principles experimentally
Chemistry-III, IV	 CO-2. Interpret the experimental data on the basis of theoretical principles CO-3. Correlate the theory to the experiments. Understand / verify theoretical principles by experiment or explain practical output with the help of theory and perform organic and inorganic synthesis and able to follow the progress of the chemical reaction. CO-4. Set up the apparatus properly for the designed experiments.
	CO-5. Systematic working skill in laboratory will be imparted in

	student.		
С	Course Outcomes T.Y.B. Sc. Chemistry		
Semester-V			
Course	Outcomes		
B.Sc. Chemistry	After completion of these courses students should be able to;		
СН-331	CO-1. To understand and write an expression for rate		
Physical Chemistry	constant K for third order reaction CO-2. Solve		
	the numerical problems based on Rate constant.		
	CO-3 Understand the term specific volume, molar		
	volume and molar refraction.		
	CO-4. Know the meaning of phase, component and degree		
	of freedom CO-5. Derive the expression for		
	rotational spectra for the transition from J to J+1.		
СН-332	CO-1. Know the meaning of various terms involved in		
Inorganic Chemistry	co-ordination chemistry		
	CO-2. To understand Werner's formulation of complexes		
	and identify the types of valences		
	CO-3. Know the limitations of VBT		
	CO-4. Know the shapes of d-orbitals and degeneracy of d-		
	orbitals		
	CO-5. Draw the geometrical and optical isomerism of		
	complexes		
СН-333	CO-1. Define organic acids and bases.		
Organic Chemistry	CO-2. Distinguish between geometrical and optical		
	isomerism.		
	CO-3. Discuss kinetics, mechanism and stereochemistry of		
	SN^1 and SN^2		
	reactions.		
	CO-4. Compare between E_1 and E_2 reactions.		
	CO-5. Understand the evidences, reactivity and mechanism of		
	various elimination and substitution reactions.		
CH-334	CO-1. Know the principles of common ion effect and		
Analytical	solubility product. CO-2. Study the methods of		
Chemistry	thermo-gravimetric analysis.		
-	CO-3. Understand the principles of Spectro-photometric		

	analysis and properties of electromagnetic radiations.
	CO-4. Study the Voltammetry and Polarography as an
	analytical tool. CO-5. Measure the absorbance of
	atoms by AAS.
СН-335	CO-1. Know the importance of
Industrial Chemistry	chemical industry. CO-2.
	Classify various insecticides.
	CO-3. Study the nutritive aspects of food constituents.
	CO-4. Understand the characteristics of some food starches.
	CO-5. Study the manufacture of cement, dyes, Glass,
	Soap and Detergents by modern methods.
СН-336-D	CO-1. Know the importance and conservation of environment
Environmental and Green	CO-2. Understand the segments of atmosphere, hazards of
Chemistry	flue gasses ozone depletion and ecological changes
	due to the hazardous gases.
	CO-3. Know the different water resourses, quality of
	potable water and quality measures.
	CO-4. Understand the need of green technology, principles
	of green chemistry and its advantages.
	CO-5. Know the importance of catalytic route for sustainable
	development using green chemistry approach.
	Course Outcomes B.Sc. Chemistry
	Semester-VI
CH-341	CO-1. Understand Mechanics of system particles.
Physical Chemistry	CO-2. Know the Redox reaction.
	CO-3 Study the Crystal Field Theory.
	CO-4. Solve the cell reaction and calculate EMF.
	CO-5. Calculate interlunar distance.
	CO-6. Understand De-Broglie hypothesis and Uncertainty
	principle
	CO-7. Derive Schrodinger's time dependent and independent
	equations
	CO-8. Know the nuclear reaction and its application
CH-342 Inorganic	CO-1 Study the electronic configuration of lanthanides
Chemistry	and actinides. CO-2. Get knowledge of

	Crystalline solid.
	CO-3. Understand different operation in
	stoichiometric molecule. CO-4. Study the
	Bio-inorganic chemistry.
CH-343	CO-1. To study UV, IR and NMR spectroscopy.
Organic Chemistry	CO-2. Discuss different types of rearrangement reactions.
	CO-3. Determine structure of compound by spectroscopic
	methods.
	CO-4. Understand the difference between carbocation and
	carbanion.
	CO-5.To study alkaloids, Ephedrine, citral molecule with
	their properties and application.
CH-344 Analytical	CO-1. Know the different analytical techniques.
Chemistry	CO-2. To understand different types of separation techniques.
	CO-3. To study principle, construction and working of GC
	and HPLC. CO-4. To give an extended knowledge
	about chromatographic techniques used for separation
	of amino acids.
	CO-5. Discuss the problem based on distribution coefficient
	and extraction techniques
CH-345	CO-1. Know the various pharmaceutical drugs, their
Industrial Chemistry	application and synthesis.
	CO-2. To study the waste management.
	CO-3. To understand the function of dyes, paints and
	pigments.
	CO-4. To study the various type of surfactants.
	CO-5. To know about molasses and bagasse. CO-
	6. To study the different types of
	polymer.
CH-346-D	CO-1. Know methods of water purification, waste water
Environmental	treatment process and its advantages
and Green Chemistry	CO-2. Study of types of soil its components and types of solid
, , , , , , , , , , , , , , , , , , ,	waste and their disposal.
	CO-3. Study the techniques used to monitored hazardous
	materials present in the environment.

	CO 4 Understand the slabel warming elimete shance and
	CO-4. Understand the global warming climate change and
	greenhouse gasses and their effects.
	CO-5. Study of importance of water as green solvent, natural
	resources of energy, conventional and non-
	conventional source and utilization of solar and wind
	energy.
СН-347	CO-1. Calculate molar and normal solution of various
Physical Chemistry	concentrations. CO-2. Determine specific rotations
Practical	and percentage of two optically active substances by
	polar metrically.
	CO-3. Study the energy of activation and second order
	reaction. CO-4. Study the stability of complex ion and
	stranded free energy change and equilibrium constant
	by potentiometry.
	CO-5. Find out the acidity, Basicity and PKa Value on pH
	meter.
CH-348	CO-1. Study the gravimetric and volumetric analysis of ores
Inorganic Chemistry	and alloy.
Practical	CO-2. Prepare a various inorganic complexes and determine
	its % purity.
	CO-3. To study binary mixture with removal of borate and
	phosphate.
	CO-4. To understand the chromatographic techniques.
CH-349	CO-1. Perform the Binary mixtures.
Organic	CO-2. Preparation of organic compounds, their purifications
Chemistry Practical	and run TLC.
	CO-3. Determination of physical constant: Melting point,
	Boiling point.
	CO-4. Different separation techniques.
N/16	· ·
IVIS	Sc - Analytical Chemistry
	Course Outcomes Semester-I
M. Sc. Analytical Chemistry	After completion of these courses students should be able
	to;
CCTP-1	CO-1. Realize the terms State function, path function, exact
<u> </u>	

	differential and inexact differential, internal energy
СНР-110-	and enthalpy,
Physical Chemistry-I	CO-2. Know the Helmholtz and Gibbs function, Entropy and
CCTP-Core Compulsory	entropy change in an ideal gas with temperature and
Theory Paper	pressure
	CO-3. Learn Partial molar quantities, methods for
	determination of molar quantities, ideal solutions
	CO-4. Understand the Raoult's, Henry's law, Gibbs
	function, colligative properties, Elevation in boiling
	point, depression.
	CO-5. Recognized the Chemical Kinetics and Reaction
	Dynamics.
	CO-6. Learn Valence bond theory, molecular orbital theory
	for di and tri atomic molecule,
ССТР-2	CO-1. To understand the concept of symmetry and able to
СНІ-130-	pass various symmetry elements through the
Inorganic Chemistry-I	molecule.
	CO-2. Understand the concept and point group and apply it
	to molecules
	CO-3. Known the Projection operators and their use of
	construct SALC
	CO-4. To understand the Application of Group theory to
	Infrared Spectroscopy.
	CO-5. Understand the detail chemistry of S and P block
	elements w.r.t. their compounds, their reactions
	CO-6. To learn the advance chemistry of boranes, fullerene,
	zeolites, polymers etc.
	CO-7. Learn Organometallic chemistry of some important
	elements from the main groups and their applications.
CCTP-3	CO-1. To understand some fundamental aspects of organic
СНО-150-	chemistry, to learn the concept aromaticity, to
Organic Chemistry-I	understand the various types of aromaticity
	CO-2. To study heterocyclic compound containing one and
	two hetero atoms with their structure, synthesis and
	reactions

	CO-3. Learn the concept stereochemistry and its importance;
	their rules and the concept of chirality
	CO-4. Understand the role of various reaction intermediates
	like carbocation, carbanion, carbines, radicals, and
	nitrates in organic reactions;
	CO-5. Able to describe mechanism of different
	rearrangement reactions.
	CO-6. Understand the chemistry of Ylides.
	CO-7. To understands the basis of redox reaction; acquire
	knowledge about the reagents which causes selective
	oxidation / reduction in various learn the basic
	mechanism of oxidation/ reduction in organic comp
CBOP-1	CO-1. Students will be able to explore new areas of research
	in both Chemistry and allied fields of science and
CHG-190 -General	technology.
Chemistry-I	CO-2. Understand the Students will be able to function as a
	member of an interdisciplinary problem solving team.
	CO-3. Understand to impart the students thorough idea in the
CBOP-Choice Based	chemistry of carbohydrates, amino acids, proteins and
Optional Paper	nucleic acids etc.
	CO-4. Develop skills to critically read the literature an
	effectively communicate research in a peer setting.
	CO-5. Understand the Practical of Inorganic Material
	Analysis, Synthesis and Applications.

M. Sc. Analytical Chemistry	
SEMESTER-II	
Course Outcomes	
	CO-1. Understand of the principle of Microwave, IR, Raman,
ССТР-4	Electronic, NMR, ESR and Mossbauer spectroscopy
	CO-2. Draw of the schematic Microwave, IR and Raman
СНР-210-	spectrum of di and triatomic molecules based on the
Physical Chemistry-II	selection rules.
	CO-3: Understand of decay kinetics and measurement of
	radioactivity

	CO-4: Get knowledge of types of nuclear react
	CO-5: Study the applications of radioactivity, understand
	radiolysis and radicals
	CO-1. Understand to find out the no of microstates and
CCTP-5	meaningful term symbols, construction of microstate
	table for various configuration
СНІ-230-	CO-2. Understand to draw correlations diagram for various
Inorganic Chemistry-II	configurations in Tdh Oh ligand field.
	CO-3. Study the basic d-d transition, d-p mixing, charge transfer
	spectra
	CO-4. Understand the various terms involved in magneto
	chemistry.
	Co-5. Understand the various Quenching of orbital angular
	momentum
	CO-6. Understand the importance of bioinorganic chemistry.
	CO-7. Understand the importance and transport of metal ions
	and Mechanism for active transport of Na^+ and K^+
	CO-8. Understand the importance and function of Ca, Fe and
	Mg in metalloproteinase and Catalytic role of Mn in
	photosynthesis.
	CO-1. MOT and will be able to extend this in predicting reaction
ССТР-6	mechanism and stereochemistry of electro cyclic
	reactions.
СНО-250-	CO-2. The concepts in free radical reactions, mechanism and
	the stereo chemical outcomes.
Organic Chemistry -II	
	CO-3. The basic principle of spectroscopic methods and their
	applications in structure elucidation of organic
	compounds using given spectroscopic data or spectra.
	CO-4. Understand the factors affecting UV-absorption spectra,
	Interpret IR-spectra on basic values of IR-frequencies.

CBOP-2	CO-1. To impart the students thorough idea in the chemistry of
	carbohydrates, amino acids, proteins and nucleic acids
СНG-290-	etc.
GeneralChemistry-II	CO-2. Students will be able to function as a member of an
, , , , , , , , , , , , , , , , , , ,	interdisciplinary problem solving team.
	CO-3. Develop skills to critically read the literature and
	effectively communicate research in a peer setting.
	CO-4. Understand the importance of chemical biology research
	and Interdisciplinary work.
	CO-5.Understand the Practical of potentiometric and
	polarography
CCPP-1	CO-1. Calculate molar and normal solution of various
СНР-107-	concentrations. CO-2. Determine specific rotations and
Practical Course –I	percentage of two optically active substances by polar
CCPP -Core	metrically.
Compulsory Practical	CO-3. Study the energy of activation and second order reaction.
Paper	CO-4. Understand the colorimetry and spectrophotometric
1 aper	technique
	CO-5. Study of Laboratory Safety, MSDS sheet, Handling of
	glassware's and care to be taken, handling of organic
	flammable as well as toxic solvents in laboratory
	CO-6- Understand the purification techniques and perform the
	green synthesis of organic compounds.
CCPP-2	CO-1. Study of synthesis of coordination complexes
CHP-227-Practical Course-	CO-2. Understand the structural determination of metal
II	complexes by conduct metric measurement.
11	CO-3. Understand the inorganic characterization techniques,
	Inorganic Kinetics and Ion – Exchange Chromatography,
	CO-4. Students are trained to different purification techniques in
	organic chemistry like recrystallization, distillation,
	steam distillation
	CO-5. Students are made aware of carrying out different types
	of reactions and their workup methods.
	CO-6. Make student aware of green chemistry and role of green
	chemistry in pollution reduction.

	Semester-III
СНА-390	CO-1. Study of colorimeter, Faraday 1 st law, Faraday 2 nd law.
Electro analytical and radio	CO-2. Study of voltammetry and paleographic method of
analytical methods of	analysis
analysis	CO-3. Study of amperometry and their applications
	CO-4. Learn radio analytical methods of analysis, activation
	analysis,
CHA-391	CO-1. Study of apparatus for test and assay, cleaning of
Pharmaceutical analysis.	glassware, role of FDA in pharmaceutical industry.
	CO-2. Learn biological test and assay, microbiological test and
	assay, physical test, determination, limit test
	sterilization.
	CO-3. Analysis of vegetable drug, sources of impurities in
	pharmaceutical row materials and finished products.
	CO-4. Learn standardization and quality control of different row
	materials.
СНА-392	CO-1. Study the classical approach for aqueous extraction, solid
Advanced analytical	phase extraction, micro extraction and SFE.
techniques	CO-2. Learn: AAS, FES, ICPAES, and DCP.
	CO-3. Study atomic fluorescence, resonant ionization and
	LASER based enhanced ionization.
	CO-4. Study of different detectors and their applications.
СНА-380	CO-1. To understand assay validation and inter laboratory
Geochemical and alloy	transfer.
analysis and analytical	CO-2. Study the statistical analysis and analytical figure.
method development and	CO-3. Learn the analysis of geological materials and alloys.
validation.	CO-4.Study the analysis of soil, sampling, chemical analysis as
	a measure of soil fertility
	Semester-IV
СНА-490	CO-1. Study of ESCA, Detectors and their applications.
Analytical	CO-2. Learn X-ray method of analysis, numerical problems.
spectroscopy	CO-3. Understand an introduction to microscopy, its applications.
	CO-4. Study of chemiluminescence's, Fluorescence and
	phosphorescence.
	CO-5. Study of NMR spectroscopy.

СНА-491	CO-1. Study of analysis of fertilizer, sampling and sample
Analytical methods for	preparation, Kendal's method.
analysis of fertilizer	CO-2. Understand the analysis of soap and detergents, UV-
detergent, water and	spectroscopic analysis of detergent.
polymer,	CO-3. Study of water pollution and analysis of polluted water.
	CO-4. Learn the polymer chemistry, analysis and testing of
	polymer, measurement of molecular weight and size.
	CO-5. Understand paint and pigment
СНА-492	CO-1. Study of pollution monitoring, removal of heavy toxic
Pollution monitoring and	metals Cr, Hg,
control and analysis of	CO-2. Learn the removal of particulate matters, SO ₂ And NOx.
body fluid.	CO-3. Study the collection of specimen blood, urine,
	faces.
	CO-4. Learn the analysis of blood and urine, Vitamin in body
	fluid.
	CO-5. Study the liver function and kidney function test.
CHA-481	CO-1. Study of acute poisoning, clinical toxicology.
Analytical toxicology and	CO-2. Learn the isolation, identification and determination of
food analysis	narcotics,
	CO-3. Study the classification function, analysis of
	carbohydrate, Protein,
	CO-4. Study the food preservatives, identification
	determination, and composition.
CHA-387	CO-1. Study the gravimetric and volumetric analysis of ores
Analysis of materials	and alloy.
	CO-2. Prepare a various inorganic complexes and determine its
	% purity.
	CO-3. Preparation of nonmaterial.
	CO-4. To understand the chromatographic techniques.
	CO-5. Estimation of Iron By Various methods.
CHA-487	CO-1. Spectral analysis best on instrumental techniques
Instrumental Analysis.	CO-2. Photometric determination.
	CO-3. Study of Conduct meter, FES, Polarography.
	CO-4. Analysis of riboflavin byphotoflurometry.
	CO-5. To Study the spectroscopic techniques

	CO-6. To study the turbidometry and Nephelometry.
CHA-488	CO-1. Study the dissolution of tablet.
Organic Chemistry Practical	CO-2. Learn the spectroscopic techniques.
	CO-3. Study Volumetric and gravimetric estimation.
	CO-4. Analysis of Quinine sulphate by photoclinometry.
	CO-5. Study of folin Wu method.

BSc- Botany

Course Outcomes: F. Y. B. Sc. Botany	
Course	Outcomes
F. Y. B. Sc. Botany	After completion of these courses students should be able to;
Paper-I. SemI:	CO-1. Students get awareness about Algal Fungal, Licens,
Plant Life and	Brayophytes, Pteridophytes diversity, systematic
Utilization -I	position and morphology.
	CO-2. Students know about their life cycle pattern as well as
	botanical sources, characteristics and utilities of
	Plants/ plant products.
Paper-II, Sem-I:	CO-1. Students know about Pteridophytes, Gymnosperms and
Plant Life and Utilization-II	Angiosperms with reference to vascular plants.
	CO-2. Utilization and economic importance of Pteridophytes,
	Gymnosperms and Angiosperms
Paper-III, Sem-I:	CO-1. Students will learn about Life Cycle of Spirogyra,
Practical Course based on	Agaricus. Riccia, Lichens, Mushroom Cultivation,
Paper I & Paper II	Inflorescence, Flowers and Fruits
Paper-I, Sem-II:	CO-1. Students will understand about the habit of the
Plant Morphology and	angiosperm plant body.
Anatomy	CO-2. They will know the vegetative characteristics of the
	plant.
	CO-3. Learn about the reproductive characteristics of the
	plant as well as they understand the plant
	morphology.
	CO-4. Understand the scope & importance of Anatomy.
	CO-5. They get knowledge about various tissue systems.
Paper-II, SemII:	CO-1. Students will learn about scope of plant physiology.
Principles of	CO-2. Different concepts in plant physiology i. e. Diffusion,
lant Science	Imbibitions, Osmosis Plasmolysis, Plant growth, Plant cell

	and Cell cycle.
	CO-3. They aware about introduction and scope of molecular
	biology, central dogma, Structure of DNA, Types of
	chromosomes. Structure and types of RNA, DNA
	replication and types.
Paper-III, Sem-II:	CO-1. To make aware the students about the study of life
Practical Course based on	cycle of Nephrolepis, Cycas, Bentham and Hooker's
Paper I & Paper II	system of classification, Comparative account of
	Dicotyledonous and Monocotyledonous plants,
	Utilization and economic importance of Angiosperms,
	Plant cell, Staining of suitable nuclear material by
	Basic Fuchsine,
	CO-2. Study of mitosis, meiosis preparation of slides using
	onion root tips ,Estimation of chlorophyll-a and
	chlorophyll-b, Osmosis- curling experiment and DPD
Course Outcomes: S. Y. B. Sc. Botany	
Course	Outcomes
S. Y. B. Sc. Botany	After completion of these courses students should be able to;
[2019 [Pattern]	
SEM-III & IV	
BO 231: Paper I-Taxonomy	CO-1. Students will learn about the scope, importance,
of Angiosperm and Plant	classification and nomenclature of plant taxonomy.
community	CO-2. Learn about artificial, natural and phylogenetic system.
	CO-2. Understand the taxonomic literature.
	CO-3. Students will learn about sources of data for systematic
	CO-4. The students know about botanical nomenclature and
	different plant families. They learn use of computer in
	plant classification.
	CO-5. The student know about ecology and ecological
	grouping.
BO 232: Paper II-	CO-1. Understand scope and application of plant physiology.
Plant Physiology	CO-2. Students will able to know the movement of sap and
	absorption of water. Understand the plant cell in
	relation to water
	CO-3. Understand the process of transpiration.

	CO-4. Students will learn about the nitrogen metabolism and
	its importance.
	CO-5. Learn about the seed dormancy and germination.
	CO-6. Students know about the physiology of flowering and
	different concept related to it.
BO 241: Paper I-	CO-1. Student will able to know about scope of plant anatomy
Plant Anatomy and	and types of tissue.
Embryology	CO-2. Student will learn Epidermal, Machanial and Vascular
	tissue. System.
	CO-3. Learn about Normal and Anomalous secondary.
	CO-4. Learn about scope of Plant Embryology.
	CO-5. Understand the Microsporangium, Megasprangium,
	Male and Female gametophyte.
	CO-6. Understand the fertilization process in plants as well as
	about endosperm and embryo.
BO 242: Paper II-	CO-1. Understand scope and importance of plant
Plant Biotechnology	biotechnology
	CO-2. Understand the principle, basic technique, types and
	application of pant tissue culture.
	CO-3. Students will learn about concept, production and
	importance of single cell protein. Learn about the
	Genetic engineering
	CO-4. Understand the genes, genome as well as recombinant
	D.N.A. technology
Practical course	CO-1. Student will able to demonstrate proficiency in
	experimental techniques and methods of analysis.
	CO-2. Students learn to carry out practical work in the field
	and in the Laboratory.

Course Outcomes: T. Y. B. Sc. Botany	
<u>Semester-V</u>	
Course	Outcomes
	After completion of these courses students should be able
	to;

BO-331	CO-1. Study of cryptogams to understand their Diversity.
Cryptogamic Botany	CO-2. Know the systematics, morphology and structure
	of algae, fungi, bryophytes, and Pteredophytes.
	CO- 3. Know life cycle pattern of cryptogams.
	CO-4. Know economic importance of cryptogams.
	CO-5.Know evolution of algae, fungi, bryophytes and
	Pteridophytes.
BO-332	CO-1. Gain knowledge about cell and its function.
Cell and molecular	CO-2. Learn the scope and importance of molecular
biology	biology.
	CO-3. Understand ultra-structure of cell wall, plasma
	membrane and cell Organelles.
	CO-4. Understand the biochemistry of cell.
	CO-5. Understand the biochemical nature of nucleic acid
	and their role in living systems.
BO-333	CO-1. Understand the Mendelian and neo Mendelian
Genetics and evolution	genetics.
	CO-2 Know about interaction of genes, multiple alleles
	and linkage and crossing over.
	CO-3. Know about sex linked inheritance,
	chromosomal aberrations.
	CO-4. Know the evolutionary sequence of various groups
	of plants.
BO-334 Spermatophytic and	CO-1. Systematic study of gymnosperms and angiosperms.
palaeobotany	CO-2. Understand the morphological and reproductive
	character of spermatophytic plants.
	CO-3. Understand economic importance of gymnosperms
	and angiosperms.
	CO-4. Understand the diversity among spermatophyte.
	CO-5. To bring investigation of palaeobotanical study in
	India.
	CO-6. Know, scope and application of Palaeobotany.
	CO-5.Know types of fossils, geological time scale.

BO-335	CO-1. Understand economic importance of plant and
Horticulture & floriculture	plant product
	CO-2. Know the methods of plant propagation.
	CO-3. Understand the fruit & vegetables production
	technology.
	CO-4. Understand the scope & importance of floriculture.
	CO-5. Understand the methods of cultivation of different
	flowering plants.
BO-336 Computational botany	CO-1. Understand the scope & importance of
	biostatistics.
	CO-2. Understand the scope and some basic commonly
	used terms like sampling, data, dispersion,
	population, central tendency etc.
	CO-3. Knowledge to apply statistical analysis to
	biological data for testing different hypothesis.
	Semester-VI
BO-341	CO-1. Know scope and importance of plant physiology.
Plant physiology &	CO-2. Understand plant & water relation.
biochemistry	CO-3. Understand process of photosynthesis, C_{3} , $C4$,
	CAM pathways.
	CO-4. Understand the process of respiration, growth and
	developmental process in plant.
	CO-5. Understand the biochemistry of cell.
	CO-6.Understand the different biochemical reaction of
	biomolecules in plant cell.
BO-342	CO-1. Know the biotic and abiotic components of
Plant ecology and	ecosystem.
biodiversity	CO-2. Food chain & food web in ecosystem.
	CO-3. Understand diversity among various groups of plant
	kingdom. CO-4. Understand plant community &
	ecological adaptation in plants. CO-5. Scope,
	importance and management of biodiversity.

BO- 343	CO-1. Understand scope and importance of plant
Plant pathology	pathology.
1 60	CO-2. Know disease cycle and disease development.
	CO-3. Know the effect of plant diseases on economy of
	crops.
	CO-4. Know the methods of studying plant diseases.
	CO-5. They can identify the plant diseases like bacterial,
	nematode, and fungal.
	CO-6. Know the disease forecasting.
	CO-7. Know the prevention and control measures of
	plant diseases.
BO- 344	CO-1. Understand scope and importance of
Medical and Economic	pharmacognosy.
Botany	CO-2. Know the cultivation, collection, processing &
	importance of various herbal drugs.
	CO-3. Understand the scope of economic botany.
	CO-4. Know the botanical resources like non wood
	forest products.
	CO-5.Understand the concept of Ayurvedic pharmacy.
BO-345	CO-1. Understand the fundamental of recombinant
Plant Biotechnology	DNA technology.
	CO-2. Understand tissue culture techniques.
	CO-3. Role of microbes in agriculture, medicine &
	industry.
	CO-4. Know the fermentation technology.
	CO-5. Understand the concept of bioinformatics,
	genomics & proteomics.
	CO-6.Understand technical germplasm &
	cryopreservation.
BO. 346	CO-1. Understand the scope & importance of plant
Plant breeding & seed	breeding.
technology.	CO-2. Know the technique of production of new superior
	crop varieties.
	CO-3. Know the about heterosis, hybrid vigor etc.
	CO-4. Know the process of hybrid variety, development &

	their release.
	CO-5.Know about seed germination, processing,
	production etc.
	BSc-Zoology
F. Y. B.Sc. Course	Outcomes
ZO-111,121:	CO1: To understand the Animal diversity around us.
Animal diversity I and II	CO2: To understand the underlying principles of
[2019 [Pattern]	classification
SEM-I & II	of animals.
	CO3: To understand the terminology needed in
	classification.
	CO4: To understand the differences and similarities in the
	various aspects of classification.
	CO5: To classify invertebrates and to be able to
	understand the possible group of the invertebrate
	observed in nature.
ZO- 112:	CO1: The learners will be able to identify and critically
Animal Ecology:	tions in relation to professional and societal standards of
	ecosystem and biosphere.
	CO2: To understand anticipate, analyze and evaluate
	lifestyle that conserves nature.
	CO3: The Learner understands and appreciates the
	diversity of ecosystems and applies beyond the syllabi to
	understand the local lifestyle and problems of the
	community.
	CO4: The working in nature to save environment will
	help development of leadership skills to promote
	betterment of environment.
ZO – 122:	CO1: Student will come to know the scope of cell
Cell Biology	biology.
	CO2: Identifications of the different structures of
	Prokaryotic, Eukaryotic.
	CO3: Knowledge of the structure of unit membranes and
	its different models.
	CO4: Understanding the different cell organelles.

	CO5: Comparison between meiosis and mitosis cell
	division
	CO6: Explanation of the cell cycle, cell ageing and cell
	death.
Practical Zoology -I	CO1: Recognize the live forms of vertebrates and
	invertebrates.
	CO2: Analyze and describe zoological concepts,
	including morphology and anatomy.
	CO3: Explain conservation and sustainable use of
	animals;
	CO5: Explain and demonstrate the impact that animals
	have on human society.
S. Y. B.Sc. Course [2019	Outcomes
[Pattern] SEM-III & IV	
ZO 211, 221:	CO1- Knowledge of classification of Non-chordates
Animal Systematic and Diversity	along with studies on various physiological
	functions and interactions of non-chordate
	organisms with type specimens.
	CO2- Knowledge of classification of chordates along
	with studies on various physiological functions
	and comparative anatomy of organs of chordate
	with example.
ZO 212, 222:	CO1-Understands processes of fisheries, sericulture,
Applied Zoology I & II	along with crop pest management techniques.
	CO2-Students gain knowledge about various disease
	related vectors and their impact on human.
	CO3-Understands concepts of apiculture, poultry, dairy
	along with tissue and cell culture. techniques.
ZO 223: Practical course	CO1-First-hand knowledge about identification of non-
	chordate and chordate specimens (fresh and
	preserved) along with larval forms and study of
	endoskeleton of vertebrates.
	CO2: Understand the nature and basic concepts of cell
	biology, genetics, taxonomy, physiology, ecology
	and applied Zoology.

		CO3: Analyze the relationships among animals, plants and microbes
	BS	c- Physics
	-	•
Class	Course	Outcomes
F.Y. B. Sc.	PHY-111	CO-1. Demonstrate an understanding of Newton's laws
[2019 [Pattern]	Mechanics	and applying them in calculations of the motion
SEM-I & II	and	of simple systems.
	Properties	CO-2. Use the free body diagrams to analyse the forces
	of Matter	on the object.
		CO-3. Understand the concepts of energy, work, power,
		the concepts of conservation of energy and be
		able to perform calculations using them.
		CO-4. Understand the concepts of elasticity and be able
		to perform calculations using them.
		CO-5.Understand the concepts of surface tension and
		viscosity and be able to perform calculations
		using them.
		CO-6. Use of Bernoulli's theorem in real life problems.
		CO-7.Demonstrate quantitative problem-solving skills
		in all the topics covered.
F.Y.B. Sc.	PHY-112	CO-1. To understand the general structure of atom,
	Physics	spectrum of hydrogen atom.
	Principles	CO-2. To understand the atomic excitation and LASER
	and	principles.
	Application	CO-3. To understand the bonding mechanism and its
	S	different types.
		CO-4. To demonstrate an understanding of
		electromagnetic waves and its spectrum.
		CO-5. Understand the types and sources of
		electromagnetic waves and applications.
		CO-6.To demonstrate quantitative problem-solving
		skills in all the topics covered.
F.Y.B. Sc.	PHY-113	CO-1. Acquire technical and manipulative skills in using
	Physics	laboratory equipment, tools, and materials.
	Laboratory	CO-2. Demonstrate an ability to collect data through

	1A	observation and/or experimentation and
		interpreting data.
		CO-3. Demonstrate an understanding of laboratory
		procedures including safety, and scientific
		methods.
		CO-4. Demonstrate a deeper understanding of abstract
		concepts and theories gained by experiencing and
		visualizing them as authentic phenomena.
		CO-5. Acquire the complementary skills of
		collaborative learning and teamwork in
		laboratory settings.
F.Y.B. Sc.	PHY-121	CO-1. Describe the properties of and relationships
	Heat and	between the thermodynamic properties of a pure
	Thermodyn	substance.
	amics	CO-2. Describe the ideal gas equation and its
		limitations.
		CO-3. Describe the real gas equation.
		CO-4. Apply the laws of thermodynamics to formulate
		the relations necessary to analyze a
		thermodynamic process.
		CO-5. Analyze the heat engines and calculate thermal
		efficiency.
		CO-6. Analyze the refrigerators, heat pumps and
		calculate coefficient of performance.
		CO-7. Understand property 'entropy' and derive some
		thermo dynamical relations using entropy
		concept.
		CO-8. Understand the types of thermometers and their
		usage.
F.Y.B. Sc.	PHY-122	CO-1.To understand the concept of the electric force,
	Electricity	electric field and electric potential for stationary
	and	charges.
	Magnetism	CO-2. Able to calculate electrostatic field and potential
		of charge distributions using Coulomb's law and
		Gauss's law.

CO-3. To understand the dielectric phenomenon and effect of electric field on dielectric.CO-4. To Study magnetic field for steady currents using Biot-Savart and Ampere's Circuital laws.CO-5. To study magnetic materials and its properties.CO-6. Demonstrate quantitative problem-solving skills in all the topics covered.F.Y.B. Sc.PHY-123 Physics LaboratoryIBCO-1. Acquire technical and manipulative skills in using observation and/or experimentation and interpreting data.CO-3. Demonstrate an understanding of laboratory procedures including safety, and scientific methods.CO-4. Demonstrate a deeper understanding of abstract concepts and theories gained by experiencing and visualizing them as authentic phenomena.S.Y.B. Sc.PHY-231: CO-1. Understand the complex algebra useful in physics coS.Y.B. Sc.PHY-231: CO-1. Understand the concept of partial differentiation. CO-3. Understand the concept of partial differentiation. CO-3. Understand the concept of singular points of differential equations.S.Y.B. Sc.PHY-232: CO-1. Apply different theorems and laws to electrical circuits.S.Y.B. Sc.PHY-232: CO-3. Understand the relations in electricity. CO-3. Understand the relations in electricity. CO-3. Understand the relations in electricity.			
SY.B. Sc.PHY-231: CO-4. To Study magnetic field for steady currents using Biot-Savart and Ampere's Circuital laws. CO-5. To study magnetic materials and its properties. CO-6.Demonstrate quantitative problem-solving skills in all the topics covered.F.Y.B. Sc.PHY-123 Physics Laboratory IBCO-1. Acquire technical and manipulative skills in using laboratory equipment, tools, and materials. CO-2.Demonstrate an ability to collect data through observation and/or experimentation and interpreting data. CO-3.Demonstrate an understanding of laboratory procedures including safety, and scientific methods.S.Y.B. Sc.PHY-231: CO-1.Understand the complex algebra useful in physics coS.Y.B. Sc.PHY-231: cal Mathemati SEM-HII & IVCO-1.Understand the concept of partial differential equations in phy CO-4.Understand the concept of singular points of differential equations.S.Y.B. Sc.PHY-232: CO-1.Apply different theorems and laws to electrical circuits. (Optional I) CO-2.Understand the relations in electricity. CO-3.Understand the parameters, characteristics and phy.			CO-3. To understand the dielectric phenomenon and
Biot-Savart and Ampere's Circuital laws.CO-5.To study magnetic materials and its properties.CO-6.Demonstrate quantitative problem-solving skills in all the topics covered.F.Y.B. Sc.PHY-123 Physics LaboratoryIBCO-1. Acquire technical and manipulative skills in using laboratory equipment, tools, and materials.CO-2.Demonstrate an ability to collect data through observation and/or experimentation and interpreting data.CO-3.Demonstrate an understanding of laboratory procedures including safety, and scientific methods.CO-4.Demonstrate a deeper understanding of abstract concepts and theories gained by experiencing and visualizing them as authentic phenomena.S.Y.B. Sc.PHY-231: cal Mathemati cal Physics-IS.Y.B. Sc.PHY-232: colluborative colluborative colluborative colluborative collaborative coll			effect of electric field on dielectric.
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CO-3. Understand the parameters, characteristics and			
		(Optional I)	
working of transistors.			-
			working of transistors.

		CO-4. Understand the functions of operational
		amplifiers.
		CO-5.Design circuits using transistors and applications
		of operational amplifiers.
		CO-6. Understand the Boolean algebra and logic
		circuits.
S.Y.B. Sc.	PHY-232:	CO-1. Understand the concept of measurement.
	Instrument	CO-2. Understand the performance of measuring
	ation	instruments.
	(Optional	CO-3. Design experiments using sensors.
	II)	
S.Y.B. Sc.	PHY-233:	CO-1. Use various instruments and equipment.
	Practical	CO-2. Design experiments to test a hypothesis and/or
	Course	determine the value of an unknown quantity. \bullet
	(Laborator	Investigate the theoretical background of an
	y 2A)	experiment.
		CO-3.Setup experimental equipment to implement an
		experimental approach.
		CO-4. Analyze the data, plot appropriate graphs and
		reach conclusions from data analysis.
		CO-5. Work in a group to plan, implement and report on
		a project/experiment.
		CO-6.Keep a well-maintained and instructive
		laboratory logbook.
S.Y.B. Sc.	PHY-241:	CO-1. To study underlying principles of oscillations and
	Oscillations	it's scope in development.
	, Waves,	CO-2. To understand and solve the equations / graphical
	and Sound	representations of motion for simple harmonic,
		damped, forced oscillators and waves.
		CO-3.To explain oscillations in terms of energy
		exchange with various practical applications.
		CO-4.To solve numerical problems related to
		undamped, damped, forced oscillations and
		superposition of oscillations.
		CO-5.To study characteristics of sound, decibel scales

		and applications.	
S.Y.B. Sc.	PHY-242:	CO-1. Acquire the basic concept of wave optics.	
	Optics	CO-2. Describe how light can constructively and	
		destructively interfere.	
		CO-3. Explain why a light beam spread out after passing	
		through an aperture	
		CO-4. Summarize the polarization characteristics of	
		electromagnetic wave	
		CO-5. Understand the operation of many modern optical	
		devices that utilize wave optics	
		CO-6. Understand optical phenomenon such	
		polarization, diffraction and interference in terms	
		of the wave model	
		CO-7. Analyze simple example of interference and	
		diffraction.	
S.Y.B. Sc.	PHY-243:	CO-1. Use various instruments and equipment.	
	Practical	CO-2. Design experiments to test a hypothesis and/or	
	Course	determine the value of an unknown quantity. \bullet	
	(Laborator	Investigate the theoretical background of an	
	y 2B)	experiment.	
		CO-3.Setup experimental equipment to implement an	
		experimental approach.	
		CO-4. Analyze the data, plot appropriate graphs and	
		reach conclusions from data analysis.	
		CO-5. Work in a group to plan, implement and report on	
		a project/experiment.	
		CO-6. Keep a well-maintained and instructive	
		laboratory logbook.	
	BSc- Mathematics		
Course		Outcomes	
F. Y. B.Sc.			
Algebra and	CO-1. Solve	various problems on properties of integers and use the	
Geometry	basic concepts of divisibility, congruence and them		
[2019 [Pattern]	appli	cations in basic algebra.	
SEM-I & II	CO-2. Apply	factor theorem, remainder theorem to solve problems	

	on polynomials and by using given relations between roots	
	on polynomials and by using given relations between roots	
	he will find the roots of polynomials	
	CO-3. Solve the system of homogeneous and non-homogeneous	
	linear of equations variables.	
	CO-4. Solve the problems of lines in three dimension, planes,	
	spheres, and cylinders and how geometry is related to	
	algebra by using their algebraic equations	
Calculus and	CO-1. Identify algebraic and order properties of real numbers.	
Differential	CO-2. Identify and apply the function properties of real	
Equations	number system such as the completeness property	
	CO-3. Verify the values of limit of a function at a point using the	
	definition of alimit	
	CO-4. Students will be familiar with the techniques of	
	integration and differentiation of function with real	
	variables.	
Course	Outcomes S. Y. B.Sc.	
Multivariable	CO-1. Students learn analysis of multivariable functions,	
Calculus I		
[2019 [Pattern]	continuity, and differentiability.	
SEM-III & IV	CO-2. learn the concepts of multiple integrals and their	
	Application to area and volumes	
Laplace	CO-1. Learn the methods and properties of Laplace transform	
Transformsand	and Inverse Laplace Transform, apply them to solve	
FourierSeries	CO-2. Apply the fundamental concepts of Fourier series,	
	CO-3. Fourier Sine series, Fourier Cosine series to find	
	series representation of irrational numbers.	
Linear Algebra	CO-1. Use the concept of inner products paces to find norm of	
	vectors, distance between vectors, check the orthogonality of	
	vectors.	
	CO-2. Apply the properties of linear transformations to linearity of	
	transformations,	
Numerical	CO-1. Students develop knowledge in the error and solution of	
differention and	differential equation.	
integration	CO-2. Students develop knowledge in the fitting of various	
	curves and numerical diffraction and integration	