



Shri Sangameshwar Education Society, Solapur
Kannada Linguistic Minority Institute

SANGAMESHWAR COLLEGE, SOLAPUR

AUTONOMOUS

CRITERION I - CURRICULAR ASPECTS

1.1- Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

Click on the below links to view details;

- **Course Outcomes (Cos), Programme Specific Outcomes (PSOs) and Programme Outcomes (POs)**
- **PSOs and COs relevant Local, Regional, National & Global needs**

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: English(NEP2020) I & II

Course Title	Programme Specific Outcomes (PSOs), Course Outcomes (Cos)
B. A. English	Programme Specific Outcomes (PSOs)
B.A. I Semester I DSC1-Theory Paper I Introduction to English Literature (Major) 23MJ01111	Course Outcomes (COs) : 1. Students will exhibit their knowledge and understanding of the nature of Literature. 2. Students will demonstrate their knowledge of the basic forms of literature. 3. Students will critically analyse the representative works of literature. 4. Students will be able to define the basic terms and concepts in Literature.
B.A. I Semester II DSC1- Theory Paper. III. Introduction to Linguistics (Major) 23MJ01121	Course Outcomes (COs) : 1. Students will be able to do comparative study of Human language and Animal communication System 2. Students will be able to do comparative study of Human language and Animal communication System. 3. Students will be able to analyse words from the point of view of Morphology.
B.A. I Semester I Major Subject: DSC-1: DSC-1 Paper-II: Minor Form- Sonnet 23MJ01112	Course Outcomes (COs) : 1. Students will exhibit their knowledge and understanding of the nature of sonnets. 2. Students will critically analyse and appreciate the sonnets.
B.A. I. Semester. II. DSC1- Theory Paper. IV. Introduction to Indian English Literature 23MJ01122	Course Outcomes (COs) : 1. Students will be able to critically think about Indian ethos 2. Students will be able to appreciate minor forms of Indian English Literature

<p>B.A. I Semester I DSC2- Theory paper I Understanding Short Stories 23MN01111</p>	<p>Course Outcomes (COs) : 1.Students will demonstrate their knowledge of the theoretical aspects of the genre- short story.</p> <p>2.Students will show their acquaintance with short stories from Russian culture.</p> <p>3. Students will be able to interpret stories emerging from American Culture.</p> <p>4.Students will critically analyse the representative short stories from English culture.</p> <p>5.Students will exhibit their knowledge of Indian ethos in the representative short stories of Rabindranath Tagore.</p>
<p>B.A. I Semester II DSC2- Theory paper II Understanding Poetry 23MN02121</p>	<p>Course Outcomes (COs) : 1. Students will critically appreciate English Poetry.</p> <p>2. Students will demonstrate their knowledge of Sonnets.</p> <p>3.Students will show their acquaintance with the poetic form -Ode</p> <p>4.Students will exhibit their acquaintance with Flash Poetry.</p>
<p>B.A. I Semester I OE:1 Soft Skills for Life</p>	<p>Course Outcomes (COs) : 1. Students will demonstrate their knowledge of the nature and types of Soft Skills.</p> <p>2. Students will be able to do SWOT analysis and set their goals.</p> <p>3. Students will be able to exhibit their knowledge about intrapersonal skills.</p> <p>4, Students will be able to employ their knowledge of interpersonal skills.</p>
<p>B.A. I Semester II OE- Soft Skills for 2 Employability</p>	<p>1. Students will be able to write emails for workplace and applications for jobs.</p> <p>2.Students will grasp skills like Presentation Skills, Resume Writing, etc.</p> <p>3.Students will be able to make public speeches and talk extempore.</p> <p>4.Students will skillfully participate in Group Discussion and face Personal Interviews.</p>
<p>B.A. I Semester-I IKS- Bharatmuni's Rasa Theory 23IK01111</p>	<p>Course Outcomes (COs) : 1. Exhibit their Knowledge of Indian classical poetics</p> <p>2.Evaluate literature with holistic understanding</p>

B.A. I Semester-II SEC-1 Practical Paper I Proofreading and Editing 23SE02121	Course Outcomes (COs) : 1. Students will be able to proof-read. 2. Students will be able to edit material.
B.A. I Semester-I AEC-1 L1: English For All 23AE01111	Course Outcomes (COs) : 1. Students will be able to use grammatically correct English. 2. Students will be able to communicate effectively.
B.A. I Semester-II AEC-2 L1: English For All 23AE01121	Course Outcomes (COs) : 1. Students will be able to exhibit their acquaintance with the skills of making Presentations, participating in Group Discussions, facing Personal Interviews. 2. Students will be able to write emails, applications for job, Resume, etc
M. A. I Semester I DSC- I Theory British Literature – I 23MM01211	Course Outcomes (COs) : 1. Relate the text to the context and understand the importance of cultural issues. 2. Recognize the major trends and schools in British Literature. 3. Exhibit their understanding to enjoy and appreciate great literary works in English with critical Judgment.
M. A. I Semester II DSC- IV (Mandatory) Theory British Literature – II 23MM01221	Course Outcomes (COs) : 1. Relate the text to the context and understand the importance of cultural issues. 2. Recognize the major trends and schools in British Literature. 3. Exhibit their understanding to enjoy and appreciate great literary works in English with critical Judgment.
M. A. I Semester I DSC- II Theory Study of Language and Linguistics – I 23MM01212	Course Outcomes (COs) : 1. Exhibit their knowledge of language and linguistic theories. 2. Demonstrate their understanding of the basic concepts in linguistics. 3. Exhibit their knowledge of various branches of linguistic
M. A. I Semester II DSC- V (Mandatory) Theory Introduction to Linguistics – II	Course Outcomes (COs) : Course Outcomes (COs) :

23MM01222	<ol style="list-style-type: none"> 1. Exhibit their knowledge of language and linguistic theories. 2. Demonstrate their understanding of the basic concepts in linguistics. 3. Exhibit their knowledge of various branches of linguistic
M. A. I Semester I DSC- III Theory Literatures in English -I 23ME01213	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. The learners learn to appreciate and enjoy the aesthetics in different English literatures in the world. 2. One understands the life philosophy through the understandings of the author. 3. He undertakes the comparative study of different literatures. 4. The learner will develop interest into world classics. 5. Understanding the culture of different country in the globalized scenario of the world is possible
M. A. I Semester II DSC- VI (Mandatory) Theory Literatures in English – II 23MM01223	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. The learners learn to appreciate and enjoy the aesthetics in different English literatures in the world. 2. One understands the life philosophy through the understandings of the author. 3. He undertakes the comparative study of different literatures. 4. The learner will develop interest into world classics. 5. Understanding the culture of different country in the globalized scenario of the world is possible
M. A. I Semester I DSE I - Theory English for Competitive Examinations 23ME01211	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. The aspirants will be able to apply their knowledge of English to crack different competitive exams. 2. The students will understand the techniques of attempting English papers in different competitive exams. 3. The students will be able to use English in their career
M. A. I Semester II DSE II - (Elective) Theory Enhancing Soft Skills 23ME01221	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. The linguistic and other important competence of the students will improve. 2. Critical thinking, teamwork and creativity among students will increase. 3. There will be development in the overall personality of the students. 4. Employability of the students will be enhanced.

M. A. I Semester I RM (Major Related) Research Methodology in English	Course Outcomes (COs) : 1.Demonstrate their knowledge and understanding of Research Methodology. 2.Illustrate the characteristics and significance of research through their research projects. 3.Differentiate between various types of research and exhibit their understanding of research designs and techniques. 4. Apply the process and tools of research to their research projects. 5.Adhere to the ethical practices while conducting research.
M. A. I Semester I FP (Field Project)	1.By providing students with an opportunity to work real-world challenges. 2.To help the student to acquire various areas of knowledge. Field experiences and technical skills.

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: Marathi (NEP2020) I & II

Course Title	Programme Specific Outcomes (PSOs), Course Outcomes (Cos)
B. A.Marathi	Programme Specific Outcomes (PSOs)
B.A. I Semester I Nivdak Marathi Katha (Purwardh)(Major) निवडक मराठी कथा (पूर्वार्ध) 23MJ02111	Course Outcomes (COs) : 1) मराठीकथावाङ्मयाचीप्राथमिकओळखझाली असेल. 2) मराठीगद्य भाषेचेविविधांगीस्वरूपसमजून आले असेल. 3) साहित्य प्रवाहांची प्राथमिकओळखझाली असेल.

	4) मराठी कथेतील प्रेरणा व प्रवृत्तींचे स्वरूप समजून आले असेल..
Nivdak Marathi Katha (Purwardh)(Major) निवडक मराठी कथा (उत्तरार्ध) 23MJ02112	Course Outcomes (COs) : 1) मराठीगद्य भाषेचेविविधांगीस्वरूपसमजून आले असेल. 2) साहित्य प्रवाहांची प्राथमिकओळखझाली असेल. 3) मराठी कथेतील प्रेरणा व प्रवृत्तींचे स्वरूप समजून आले असेल. 4) कथा : कथन, वाचन, श्रवण याविषयीची जाणीव निर्माण झाली असेल.
Marathi Pramanlekhan(Minor) 23MN02111 मराठी प्रमाणलेखन	Course Outcomes (COs) : 1) मराठीभाषाआणिप्रमाणलेखनाची ओळखझाली असेल. 2) मराठी प्रमाणलेखनाच्या नवीन नियमांचे स्वरूप समजून आले असेल. 3) विरामचिन्हांचे महत्त्व जाणतील व प्रत्यक्ष उपयोजनकरतील. 4) मराठी प्रमाणलेखनाचा सराव होईल.
Marathi BhashechiPurwapeethika (IKS) मराठी भाषेची पूर्वपीठिका 23IK02111	Course Outcomes (COs) : 1) मराठी भाषेची पूर्वपीठिका ज्ञात झाली असेल. 2) मराठी भाषेच्या प्राचीन रूपाची ओळख झाली असेल. 3) मराठी भाषेच्या उत्पत्तीचा विचार समजून घेतील.
Sahityadarpan(Purwardh) (OE1) साहित्यदर्पण(पूर्वार्ध) 23OE02111	Course Outcomes (COs) : 1) मराठीगद्यवपद्यवाङ्मयाचीप्राथमिकओळखझाली असेल. 2) मराठीगद्य-पद्याच्याभाषेचेविविधांगीस्वरूपसमजले असेल. 3) ललित व वैचारिक साहित्याचा परिचय झाला असेल. 4) भाषाभिव्यक्तीचेमहत्त्वसमजले असेल.
B.A. I Semester II Nivdak Marathi Kavita (Uttarardh)(Major) निवडक मराठी कविता (पूर्वार्ध) 23MJ02121	Course Outcomes (COs) : 1) मराठीकाव्य वाङ्मयाचीप्राथमिकओळखझाली असेल. 2)मराठीकवितेतील भाषेचेविविधांगीस्वरूपसमजून आले असेल. 3)साहित्य प्रवाहांची प्राथमिकओळखझाली असेल. 4)मराठी कवितेतील प्रेरणा व प्रवृत्तींचे स्वरूप समजून आले असेल.
Nivdak Marathi Kavita (Uttarardh)(Major) निवडक मराठी कविता (उत्तरार्ध) 23MJ02122	Course Outcomes (COs) : 1) मराठीकवितेतील भाषेचेविविधांगीस्वरूपसमजून

	<p>आले असेल.</p> <p>2) साहित्य प्रवाहांची प्राथमिकओळखझाली असेल.</p> <p>3) मराठी कवितेतील प्रेरणा व प्रवृत्तींचे स्वरूप समजून आले असेल.</p> <p>4)कविता : वाचन, श्रवण याविषयीची जाणीव निर्माण झाली असेल.</p>
<p>Marathi Patralekhan(Minor) 23MN02121</p> <p>मराठी पत्रलेखन</p>	<p>Course Outcomes (COs) :</p> <p>1) मराठीपत्रलेखनाचीओळखहोईल.</p> <p>2)पत्रलेखनाचे स्वरूप व प्रकार समजून आले असेल.</p> <p>3)मराठीपत्रलेखनाच्यापद्धतीचा परिचय झाला असेल.</p> <p>4) मराठीपत्रलेखनाचा सराव होईल.</p>
<p>Sutrasanchalan (SEC1) 23SE02121</p> <p>सूत्रसंचालन</p>	<p>Course Outcomes (COs) :</p> <p>1) निवेदन, सूत्रसंचालन कौशल्यातसुधारणा झालेली दिसून येईल.</p> <p>2) विद्यार्थ्यांचेव्यक्तिमत्वविकसितहोईल.</p> <p>3)वक्तृत्वगुणांमुळेव्यावसायिकक्षेत्रातयशस्वीहोतायेईल.</p> <p>4)श्राव्य व दृकश्राव्य प्रसारमाध्यमांमध्येनोकरीचीसंधीप्राप्तहोऊ शकेल.</p>
<p>Sahityadarpan(Uttarardh) (OE1)</p> <p>साहित्यदर्पण(उत्तरार्ध)</p> <p>23OE02121</p>	<p>Course Outcomes (COs) :</p> <p>1) मराठीगद्यवपद्यवाङ्मयाचीप्राथमिकओळखहोईल.</p> <p>2) मराठीगद्य-पद्याच्याभाषेचेविविधांगीस्वरूपसमजेल.</p> <p>3) ललित व वैचारिक साहित्याचा परिचय झाला असेल.</p> <p>4) विद्यार्थ्यांनाभाषाभिव्यक्तीचेमहत्त्वसमजेल.</p>

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: Hindi (NEP2020) I & II

Course Title	Programme Specific Outcomes (PSOs), Course Outcomes (Cos)
B. A. HINDI	Programme Specific Outcomes (PSOs)
B.A. I Semester I शब्द कलश भाग 1	Course Outcomes (COs) <ul style="list-style-type: none"> • <i>Unit-1:</i> छात्रहिंदी गद्य का अर्थ तथा कवियों से परिचित होंगे । • <i>Unit-2:</i> छात्रों में राष्ट्रप्रेम सामाजिक प्रतिबद्धता की भावना विकसित होगी । • <i>Unit-3:</i> छात्रोंमें हिंदी साहित्य के प्रति रुचि वृद्धि गत होगी । • <i>Unit-4:</i> छात्रोंमें वर्णमाला शब्द भेद कारक लिंग वचन काल आदि व्याकरणिक ज्ञान में अभिवृद्धि होगी ।
B.A. I Semester I जनसंचार माध्यम और हिंदी भाषा भाग 1	Course Outcomes (COs) : <ul style="list-style-type: none"> • <i>1)Unit-1:</i> छात्रजनसंचार माध्यमों से परिचित होंगे । • <i>Unit-2:</i> छात्रोंमें राष्ट्रप्रेम सामाजिक प्रतिबद्धता की भावना विकसित होगी ।
B.A. I Semester I साहित्य सुमन भाग 1	<ul style="list-style-type: none"> • <i>Unit-1:</i> छात्रोंमें सीखने की प्रक्रिया में हिंदी भाषा केआरंभिक स्तर से अब तक के बदलते रूपों की जानकारी प्राप्त की जा सकेगी । • <i>Unit-2:</i> उच्चशैक्षणिक सर पर हिंदी भाषा किस प्रकार महत्वपूर्ण भूमिका निभा सकती है इससे संबंधित परिणाम को प्राप्त किया जा सकेगा । • <i>Unit-3:</i> छात्रा अपनी भाषाको सीखने की

	<p>प्रक्रिया में भाषा गत मूल्यों को व्यवहारिक रूप से भी जान सकेंगे।</p> <ul style="list-style-type: none"> • Unit-4: भाषा के सैद्धांतिक रूप के साथ-साथ व्यवहारिक पक्ष को भी जाना जा सकेगा।
IKS-1:ब्राह्मी लिपि	<ul style="list-style-type: none"> • Unit-1: छात्रब्राह्मी लिपि लेखन प्रक्रिया से परिचित होंगे। • Unit-2: छात्रोंमें ब्राह्मी लिपि लेखन के प्रति अभिवृद्धि वृद्धि गत होगी।
B. A. I Semester II शब्दकलश भाग 2	<p>Course Outcomes (COs) :</p> <ul style="list-style-type: none"> • Unit-1: छात्र हिंदी गद्य का अर्थ तथा कवियों से परिचित होंगे। • Unit-2: छात्रों में राष्ट्रप्रेम सामाजिक प्रतिबद्धता की भावना विकसित होगी। • Unit-3: छात्रों में हिंदी साहित्य के प्रति रुचि वृद्धि गत होगी। • Unit-4: छात्रों में वर्णमाला शब्द भेद कारक लिंग वचन काल आदि व्याकरणिक ज्ञान में अभिवृद्धि होगी।
जनसंचार माध्यम और हिंदी भाषा भाग 2	<ul style="list-style-type: none"> • Unit-1: छात्रोंमें जनसंचार माध्यमों के प्रति रुचि वृद्धि गत होगी। • Unit-2: छात्रों में रोजगार पर कौशल विकसित होंगे।
साहित्य सुमन भाग 2	<ul style="list-style-type: none"> • Unit-1: छात्रों में सीखने की प्रक्रिया में हिंदी भाषा के आरंभिक स्तर से अब तक के बदलते रूपों की जानकारी प्राप्त की जा सकेगी। • Unit-2: उच्च शैक्षणिक स्तर पर हिंदी भाषा किस प्रकार महत्वपूर्ण भूमिका निभा सकती है इससे संबंधित परिणाम को प्राप्त किया जा सकेगा। • Unit-3: छात्रा अपनी भाषा को सीखने की प्रक्रिया में भाषा गत मूल्यों को व्यवहारिक रूप से भी जान सकेंगे। • Unit-4: भाषा के सैद्धांतिक रूप के साथ-साथ

	व्यवहारिक पक्ष को भी जाना जा सकेगा।
M. A. I Semester I आधुनिक हिंदी गद्य	<p>Course Outcomes (COs) :</p> <ul style="list-style-type: none"> • Unit-1: छात्रोंमें हिंदी भाषा और साहित्य के प्रति रुचि निर्माण होती है। • Unit-2: राजभाषाएवं राष्ट्रभाषा हिंदी का प्रचार प्रसार होता है। • Unit-3: छात्रोंमें राष्ट्रीय एकात्मता की भावना में वृद्धि होती है। • Unit-4: छात्रोंमें मानवतावादी और नैतिक मूल्यों का प्रसार होता है।
भाषा विज्ञान	<ul style="list-style-type: none"> • Unit-1: छात्रभाषाऔर भाषा विज्ञान के संदर्भ में जानकारी प्राप्त होगी। • Unit-2: छात्र रूप विज्ञानसे परिचय होगा। • Unit-3: छात्रवाक्यनिर्मिती प्रक्रिया जान सकेंगे। • Unit-4: छात्र अर्थ विज्ञान को समझ सकते हैं।
प्रयोजनमूलक हिंदी	<ul style="list-style-type: none"> • Unit-1: छात्रकामकाजी हिंदी से परिचित हो जाते हैं। • Unit-2: मातृभाषाके विभिन्न रूपों से परिचित होते हैं। • Unit-3: छात्रराजभाषा की संविधानिक स्थिति से परिचित होते हैं। • Unit-4: छात्रकार्यालय में प्रयुक्त हिंदी से अवगत होते हैं।
साहित्यिक वर्ग विशेष रचनाकार कबीर	<ul style="list-style-type: none"> • Unit-1: छात्रकबीर के विचारों से अवगत होते हैं। • Unit-2: छात्रकबीर के दोहों की प्रासंगिकता से

	<p>परिचित होते हैं।</p> <ul style="list-style-type: none"> • Unit-3: छात्रकबीर के पदों को समझ लेते हैं। • Unit-4: छात्र कबीर की विद्रोही भावना को समझते हैं।
व्यवसायिक वर्ग पत्रकारिता।	<ul style="list-style-type: none"> • Unit-1: पत्रकारितासाहित्य से छात्र परिचित हो जाते हैं। • Unit-2: पत्रकारितासाहित्य की विभिन्न विधाओं का अध्ययन करते हैं। • Unit-3: छात्रोंमें पत्रकारिता विधा में रुचि पैदा होती है। • Unit-4: छात्रातत्कालीन भारतीय सामाजिक राजनीतिक सांस्कृतिक परिवेश से परिचित हो जाते हैं।
अनुसंधान प्रविधि और प्रक्रिया	<ul style="list-style-type: none"> • Unit-1: छात्रअनुसंधान प्रविधि एवं प्रक्रिया से परिचित हो जाते हैं। • Unit-2: अनुसंधान की पद्धति को समझकर अनुसंधान करने हेतु छात्र सक्षम हो जाते हैं। • Unit-3: साहित्यिकअनुसंधान के विभिन्न क्षेत्रों से छात्र अवगत हो जाते हैं। • Unit-4: अनुसंधानके क्षेत्र में संगणक का महत्व एवं उसकी उपयोगिता को छात्र समझते हैं।
N. A. I Semester II आधुनिक हिंदी गद्य साहित्य	<p>Course Outcomes (COs) :</p> <ul style="list-style-type: none"> • Unit-1: हिंदीगद्य साहित्य से छात्र परिचित हो जाते हैं। • Unit-2: छात्रहिंदी गद्य साहित्य की विभिन्न विधाओं का अध्ययन करते हैं। • Unit-3: छात्रोंमें हिंदी गद्य विधा में रुचि पैदा होती है।

	<ul style="list-style-type: none"> • Unit-4: छात्रतत्कालीन भारतीय सामाजिक, राजनीतिक, सांस्कृतिक, परिवेश से परिचित हो जाते हैं।
हिंदी भाषा एवं लिपि	<ul style="list-style-type: none"> • Unit-1: छात्र भाषा और भाषा विज्ञान के संदर्भ में जानकारी प्राप्त करते हैं। • Unit-2: छात्र रूप विज्ञान से परिचित होते हैं। • Unit-3: छात्र वाक्य निर्मिती प्रक्रिया जान सकते हैं। • Unit-4: छात्र अर्थ विज्ञान को समझ सकते हैं।
संगणकीय हिंदी एवं व्यावहारिक हिंदी	<ul style="list-style-type: none"> • Unit-1: छात्र संगणक में हिंदी के अनुप्रयोग से अवगत हो जाते हैं। • Unit-2: छात्र मुद्रित माध्यम के सैद्धांतिक पक्ष से परिचित होते हैं। • Unit-3: छात्र इलेक्ट्रॉनिक माध्यम रेडियो के लिए लेखन से अवगत होते हैं। • Unit-4: छात्र टेलीविजन की जानकारी देते हुए उसमें किए जाने वाले लेखन से परिचित होते हैं।
साहित्यिक वर्ग विशेष रचनाकार सूर्यकांत त्रिपाठी निराला	<ul style="list-style-type: none"> • Unit-1: सूर्यकांत त्रिपाठी निराला के कृतित्व छात्र समझ जाते हैं। • Unit-2: सूर्यकांत त्रिपाठी निराला की कविता के अंतरंग से छात्र अवगत हो जाते हैं। • Unit-3: अनामिका काव्य संकलन के कविताओं से छात्र परिचित हो जाते हैं। • Unit-4: नए पत्ते काव्य संकलन की कविताओं से छात्र परिचित हो जाते हैं।
व्यवसायिक वर्ग पत्रकारिता II	<p>Unit-1: पत्रकारिता साहित्य से छात्र परिचित हो जाते हैं।</p> <p>Unit-2: पत्रकारिता साहित्य की विभिन्न विधाओं का अध्ययन करते हैं।</p>

	<p>Unit-3: छात्रों में पत्रकारिता विधा में रुचि पैदा होती है।</p> <p>Unit-4: छात्रा तत्कालीन भारतीय सामाजिक राजनीतिक सांस्कृतिक परिवेश से परिचित हो जाते हैं।</p>
अनुसंधान परियोजना	<p>Unit-1: छात्र अनुसंधान प्रविधि एवं प्रक्रिया से परिचित हो जाते हैं।</p> <p>Unit-2: अनुसंधान की पद्धति को समझकर अनुसंधान करने हेतु छात्र सक्षम हो जाते हैं।</p> <p>Unit-3: साहित्यिक अनुसंधान के विभिन्न क्षेत्रों से छात्र अवगत हो जाते हैं।</p> <p>Unit-4: अनुसंधान के क्षेत्र में संगणक का महत्व एवं उसकी उपयोगिता को छात्र समझते हैं।</p>

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Programme Outcomes (POs), Programme Specific Outcomes

(PSOs) and Course Outcomes (Cos)

Name of the Department: Psychology (NEP2020) I & II (UG)

Course Title	Programme Specific Outcomes (PSOs), Course Outcomes (Cos)
B. A. Psychology	Programme Specific Outcomes (PSOs)
B.A. I Semester I PSYCHOLOGY-I: INTRODUCTION TO PSYCHOLOGY (Major)	Course Outcomes (COs) : 1)Familiarize student with science of psychology, and its biological base with application 2)Enable student with state of consciousness, motivation and emotional processes with its application.
B.A. I Semester I Human relationship skills (Major)	Course Outcomes (COs) : 1)Student acquaint with introduction of human relationship 2)Student learn about understanding skills 3)Student understand intimacy skills 4)Student understand termination of relationship
B.A. I Semester I Health psychology (Minor)	Course Outcomes (COs) : 1)To acquaints the students with relation between Psychology and health. 2)To acquaints the students with various problems and preventions and controls of health problems.
B.A. I Semester I Psychology of Peace & Happiness (OE)	Course Outcomes (COs) : 1)To bring an experience marked by preponderance of positive emotions and informing them about emerging paradigm of Positive Psychology. 2)To inform students about the efforts to develop sustainable societies through prevention of violence and understanding their role as Psychologist.
B.A. I Semester II PSYCHOLOGY-II: FUNDAMENTALS OF PSYCHOLOGY (Major)	Course Outcomes (COs) : 1)To acquaint of introduction to memory and forgetting for beginner 2)Student acquaint with intelligence 3)Student familiar with motivation and emotion 4)Student familiar with personality understanding
B.A. I Semester II Science of Play (Major)	Course Outcomes (COs) : 1)To understand the importance of play therapy in treatment of different psychopathological problems. 2)To know different types of play therapy and its application in clinical setting.
B.A. I Semester II Industrial Psychology (Minor)	Course Outcomes (COs) : 1)To acquaint the students Psychology at work. 2)To familiar students application of psychology in employee selection, appraisal and training. 3)To understand students various aspects like motivation, leadership and engineering psychology
B.A. I Semester II Emotional Intelligence (OE)	1)To learn the concept and models of emotional intelligence. 2)To able students basic ways of developing emotional intelligence. 3)To utilize how to manage emotions and its applications in

	various fields.
M. A. I Semester I Applied Cognitive Psychology	Course Outcomes (COs) : 1)To know the History of Cognitive Psychology and its applications in various fields 2)To explain theories and research in the field of perception and attention 3)To describe the concept of memory like memory. 4)To describe Decision Making, Problem Solving & Reasoning.
M. A. I Semester I Advanced Personality Psychology	Course Outcomes (COs) : 1)To know the nature of personality and characteristics of Good Personality. 2)To understand the taxonomies personality from different theories dispositions from psychoanalytical perspective. To understand personality development from geneticsphysiology & evolutionary approach 3)To understand personality development from Humanistic and Existential perspectives To know recent development in the field of Psychoanalytic approach. 4)To know researches in the field of Personality Psychology.
M. A. I Semester I Practical Based on DSC-T1 & DSC- T2	Course Outcomes (COs) : 1)To know the method of conducting psychological experiment 2)To learn application of cognitive process in experiment. 3)To know designing a psychological experiment. 4)To write report on psychological experiments
M. A. I Semester I Advanced Social Psychology	Course Outcomes (COs) : 1)Develop understanding about theories and applications of social psychology. 2)Develop understanding of social interactions. 3)Understands importance of close relationship and pro-social behavior
M. A. I Semester I Psychology of Emotion	Course Outcomes (COs) : 1)Student understand basic nature of emotion 2)Student comprent different approaches of emotions 3)Student learn cultural basis behind emotions 4)Student can understand different emotional disorders
M. A. I Semester I Research Methodology in Psychology	Course Outcomes (COs) : 1)Student will able with basic research process, research design and types of investigation that they can follow the research report and papers in different the students of psychology. 2)Student will learn scientific research, Sampling and data collection, research design.
M. A. I Semester II Physiological Psychology	Course Outcomes (COs) : 1)Student understand physiological psychology and role of evaluation in behaviour 2)Student understand neurons and Its conduction and transmission in behaviour 3)Student enrich the knowledge about the Nervous System in the mental disorders 4)Student understand internal and hormonal regulation of behavior
M. A. I Semester II	Course Outcomes (COs) :

Basic Clinical Psychology	<p>1)To explain Clinical Psychology is the Branch Of Psychology concerned with the assessment and treatment of Mental Status.</p> <p>2)To illness, abnormal behavior and psychiatric problems.</p> <p>3)This field integrates the Science Of Psychology with the treatment of complex human problems, making it an exciting career choice for people who are looking for a challenging and rewarding field.</p> <p>4)Able to Transfer Knowledge and skills to students as well as younger professionals.</p>
M. A. I Semester II Practical Based on DSC-T4 & DSC- T5	<p>Course Outcomes (COs) :</p> <p>1)To know the method of conducting psychological experiment</p> <p>2)To learn application of cognitive process in experiment.</p> <p>3)To know designing a psychological experiment.</p> <p>4)To write report on psychological experiments</p>
M. A. I Semester II Life Span Development	<p>Course Outcomes (COs) :</p> <p>1)Student able to learn physical and cognitive perspectives in across the life span.</p> <p>2)Student understand socio emotional developmental in across the life span</p> <p>3)Student learns descriptions of different developmental stages.</p> <p>4)Student will use the knowledge of Human life span in research.</p>
M. A. I Semester II Organization Psychology	<p>Course Outcomes (COs) :</p> <p>1)Student able to learn Importance of Motivation in the Workplace.</p> <p>2)Student understand Self-Efficacy in Modern Motivation Theory.</p> <p>3)Student learns descriptions of different of Leadership stages.</p> <p>4)Student will use the knowledge of Organization in research.</p>
M. A. I Semester II Filed Project in Psychology	<p>Course Outcomes (COs) :</p> <p>1)Project Based Learning is the application of the comprehensive methodology to inculcate the spirit of strategizing industry operations in a real-time environment</p> <p>2)The project work aims to foster students with an opportunity</p> <p>3)Selection of Project work Topic</p> <p>4)Important Instructions and in form action on Project Submission</p>

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: Psychology (NEP2020) I & II (PG)

Course Title	Programme Specific Outcomes (PSOs), Course Outcomes (Cos)
M. A. I Semester I Applied Cognitive Psychology	Course Outcomes (COs) : 1)To know the History of Cognitive Psychology and its applications in various fields 2)To explain theories and research in the field of perception and attention 3)To describe the concept of memory like memory. 4)To describe Decision Making, Problem Solving & Reasoning.
M. A. I Semester I Advanced Personality Psychology	Course Outcomes (COs) : 1)To know the nature of personality and characteristics of Good Personality. 2)To understand the taxonomies personality from different theories dispositions from psychoanalytical perspective. To understand personality development from geneticsphysiology & evolutionary approach 3)To understand personality development from Humanistic and Existential perspectives To know recent development in the field of Psychoanalytic approach. 4)To know researches in the field of Personality Psychology.
M. A. I Semester I Practical Based on DSC-T1 & DSC- T2	Course Outcomes (COs) : 1)To know the method of conducting psychological experiment 2)To learn application of cognitive process in experiment. 3)To know designing a psychological experiment. 4)To write report on psychological experiments
M. A. I Semester I Advanced Social Psychology	Course Outcomes (COs) : 1)Develop understanding about theories and applications of social psychology. 2)Develop understanding of social interactions. 3)Understands importance of close relationship and pro-social behavior
M. A. I Semester I Psychology of Emotion	Course Outcomes (COs) : 1)Student understand basic nature of emotion 2)Student comprent different approaches of emotions 3)Student learn cultural basis behind emotions 4)Student can understand different emotional disorders
M. A. I Semester I Research Methodology in Psychology	Course Outcomes (COs) : 1)Student will able with basic research process, research design and types of investigation that they can follow the research report and papers in different the students of psychology. 2)Student will learn scientific research, Sampling and data collection, research design.
M. A. I Semester II Physiological Psychology	Course Outcomes (COs) : 1)Student understand physiological psychology and role of evaluation in behaviour 2)Student understand neurons and Its conduction and transmission in behaviour 3)Student enrich the knowledge about the Nervous System in the mental

	disorders 4)Student understand internal and hormonal regulation of behavior
M. A. I Semester II Basic Clinical Psychology	Course Outcomes (COs) : 1)To explain Clinical Psychology is the Branch Of Psychology concerned with the assessment and treatment of Mental Status. 2)To illness, abnormal behavior and psychiatric problems. 3)This field integrates the Science Of Psychology with the treatment of complex human problems, making it an exciting career choice for people who are looking for a challenging and rewarding field. 4)Able to Transfer Knowledge and skills to students as well as younger professionals.
M. A. I Semester II Practical Based on DSC-T4 & DSC- T5	Course Outcomes (COs) : 1)To know the method of conducting psychological experiment 2)To learn application of cognitive process in experiment. 3)To know designing a psychological experiment. 4)To write report on psychological experiments
M. A. I Semester II Life Span Development	Course Outcomes (COs) : 1)Student able to learn physical and cognitive perspectives in across the life span. 2)Student understand socio emotional developmental in across the life span 3)Student learns descriptions of different developmental stages. 4)Student will use the knowledge of Human life span in research.
M. A. I Semester II Organization Psychology	Course Outcomes (COs) : 1)Student able to learn Importance of Motivation in the Workplace. 2)Student understand Self-Efficacy in Modern Motivation Theory. 3)Student learns descriptions of different of Leadership stages. 4)Student will use the knowledge of Organization in research.
M. A. I Semester II Filed Project in Psychology	Course Outcomes (COs) : 1)Project Based Learning is the application of the comprehensive methodology to inculcate the spirit of strategizing industry operations in a real-time environment 2)The project work aims to foster students with an opportunity 3)Selection of Project work Topic 4)Important Instructions and in form action on Project Submission

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: Geography (NEP2020) I

Course Title	Programme Specific Outcomes (PSOs), Course Outcomes (Cos)
B. A. Geography	<p>Programme Specific Outcomes (PSOs)</p> <ul style="list-style-type: none"> • Understand the fundamental concepts and principles in various fields of Geography. • Understand the Structure, processes, stages, theories, models, in branches of Geography. • Develop general view and importance of man and environment relationship • Understand various past, present and future problems and overcome them through proper management, planning and sustainability. • Find out solutions by applying Geographic knowledge to most pressing issues for modern society • Provide career in education, commerce, industry, transport, tourism, Public and Private sectors. • Acquire maps and diagram making, use of Geographic equipment, field work, Social communication, report writing, data presentation skills. • Learn to prepare advanced maps based on GIS by using the remote sensing and GPS technique and application of computer.
B.A. I Semester IGeomorphology 23MJ09111	<p>Course Outcomes (COs)</p> <ol style="list-style-type: none"> 1. Remember study the earth movements 2. Compare geomorphic Processes such as weathering, mass wasting etc. 3. Understand the methods of representation of relief. 4. Compare the evolution of Landforms.
B.A. I Semester I Human Geography - I 23MJ09112	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Understand concept of Human Geography 2. Analyze Religious and Language Groups in the World
B.A. I Semester I Rural Settlement	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Define rural settlement and its nature and scope

Geography 23MN09111	2. Explain pattern of rural settlement 3. Classify rural settlement on various basis 4. Analyze structure and morphology of rural settlements
B.A. I Semester I Bharatavarsha – A Land of Rare Natural Endowments 23IK09111	Course Outcomes (COs) : 1. Classify topography, drainage pattern of Indian physiography 2. compare Indian unique culture with world
B.A. I Semester I Environmental Studies 23VE09111	Course Outcomes (COs) : 1. Understand the basic concepts in dynamic environment 2. Learn and follow various environmental policies. 3. Implement solid waste management strategies.
B.Com-I Sem-I&B.Sc- ISem-I Physical Geography of Maharashtra 23OE09111	Course Outcomes (COs) : 1. Understand the physical profile of the region. 2. Understand the climatic variation of Maharashtra 3. Analyze correlation between the soil and vegetation of Maharashtra 4. Explain the importance of mineral and resources
B.Sc.-ISem-I Fundamental Geomorphology 23MN09112	Course Outcomes (COs) : 1. Explain the importance of geomorphology 2. Remember the study of earth movements
B.Sc.-I Sem-I Practical based on DSC2- T1 23MN09113	Course Outcomes (COs) : 1. Construct proper map through cartographic techniques and tools. 2. Draw and classify Projection of Maps
B.A. I Semester II Climatology- 23MJ09121	Course Outcomes (COs) : 1. Students will demonstrate knowledge of the atmosphere. 2. Learn the interaction between the atmosphere and the earth surface. 3. Understand mechanism of changing climate 4. Student will recognize the significance of atmospheric concepts for understanding socio- economic progress.
B.A. I Semester II Human Geography – II - 23MJ09122	Course Outcomes (COs) : 1. Explain the interrelationship of man and environment 2. Describe the distribution of world population
B.A. I Semester II Urban Settlement Geography - 23MN09121	Course Outcomes (COs) : 1. Understand the importance of urban settlements through urban geography. 2. Recognize the patterns of urban Settlements, Site and situations. 3. Correlate human activities and urban development. 4. Understand present urban problems and capable to handle of present problematic situations in urban areas.
B.A. I Semester II Introduction to Tourism- 23SE09121	Course Outcomes (COs) : 1. Understand about the tourism influencing factors 2. Understand the different dimensions of tourism
B.Com-I Sem.-II& BSc- ISem.-II Economic and Demographic Geography of Maharashtra 23OE09121	Course Outcomes (COs) : 1. Describe the various modes of irrigation 2. Understand the industrial development of Maharashtra 3. Compare the various transportation modes 4. Student will examine population dynamics and characteristics
B.Sc.-ISem.-II Fundamental Climatology-	Course Outcomes (COs) : 1. Demonstrate knowledge of the atmosphere.

23MN09122	2. Learn the interaction between the atmosphere and the earth surface.
B.Sc.-I Sem.-II Practical based on DSC2-T2 23MN09123	Course Outcomes (COs) : 1. Construct proper map through cartographic techniques and tools. 2. Make use of proper Statistical Data and methods
Programme Title M.A. Geography	Programme Specific Outcomes (PSOs) The student will be able to 1) Understand the fundamental concepts and principles in various fields of Geography. 2) Acquire maps and diagram making, use of Geographic equipment, field work, Social communication, report writing, data presentation skills. 3) Find out solutions by applying Geographic knowledge to most pressing issues for modern society 4) Learn to prepare advanced maps based on GIS by using the remote sensing and GPS technique and application of computer. 5) Understand various past, present and future problems and overcome them through proper management, planning and sustainability. 6) Provide career in education, commerce, industry, transport, tourism, Public and Private sectors.
M. A. I Semester I Introduction to Geomorphology- 23MM09211	Course Outcomes (COs) : 1. Remember the definition and concepts of Geomorphology 2. Understand the interior structure of the earth 3. Apply the knowledge of earths in disaster management 4. Evaluate geosynclinals theories
M. A. I Semester I Introduction to Climatology - 23MM09212	Course Outcomes (COs) : 1. Construct the design of Composition & Structure of atmosphere 2. Sketch the Air Pressure and winds 3. Examine atmospheric stability and instability 4. Implement the climatic knowledge
M. A. I Semester I Practical based on DSC-T1 & DSC-T2- 23MM09213	Course Outcomes (COs) : 1. Design various types of maps 2. Identify of Landforms from Topographical Maps
M. A. I Semester I Economic Geography - 23ME09211	Course Outcomes (COs) : 1. Understand the basic concepts of Economic geography 2. Apply location theories of industries
M. A. I Semester I Practical based on DSE-T1- 23ME09212	Course Outcomes (COs) : 1. Understand climatic data 2. Construct climatic maps and diagram
M. A. I Semester I Human Geography- 23ME09213	Course Outcomes (COs) : Students will understand the various characteristics of human geography like races, religion, settlement and agriculture.
M. A. I Semester I Practical based on DSE-T1- 23ME09214	Course Outcomes (COs) : 1) Know the analysis methods of socio-economic data. 2) Understanding the various diagram.
M. A. I Semester I Research Methodology in Geography- 23RM09211	Course Outcomes (COs) : 1. Remember the definition and research methodology 2. Understand the Research Problem and Sampling Design 3. Apply the knowledge of research in Collection and Analysis of Geographical Data

	4. Explain the techniques of report writing
M. A. I Semester II Applied Geomorphology- 23MM09221	Course Outcomes (COs) : 1) Understand Evolution of Continents and Ocean basins 2) Classify the agencies of denudation and their work 3) Describe slope development theories 4) Apply geomorphic knowledge in natural hazard
M. A. I Semester II Applied Climatology 23MM09222	Course Outcomes (COs) : 1) Remember the Climatic regions of the world 2) Understand the Droughts, Irrigation Scheduling 3) Apply the climatology in disaster management 4) Analyze climate change and climatic regions
M. A. I Semester II Practical based on DSC-T3 & DSC-T4- 23MM09223	Course Outcomes (COs) : 1) Apply statistical techniques in geography 2) Analyze Central Tendency and Dispersion 3) Correlate compound and superimposed pyramid 4) Sketch various graphs
M. A. I Semester II Population Geography 23ME09221	Course Outcomes (COs) : 1) Recognize definition, nature scope and significance of population geography 2) Compare factors and distribution of population 3) Overcome population problems with policies
M. A. I Semester II Practical based on DSE-T2 23ME09222	Course Outcomes (COs) : 1) Draw various types of pyramids 2) Classify dot and choropleth method
M. A. I Semester II Geography of Health 23ME09223	Course Outcomes (COs) : 1) The course will be providing an understanding of occupational and deficiency diseases. 2) Students will also learn the different type of transmittable of major diseases and presentation. 3) Students will be achieving the knowledge about problems of mal-nutrition in India and its major causes with eradication process.
M. A. I Semester II Practical based on DSE-T2 23ME09224	Course Outcomes (COs) : 2) Students will also attain the knowledge about semi – average line graphs with odd and even techniques. 3) Students became creative in field of calculation, tabulation, and digitalization in spatial climatic data with represent and interpretation. 4) To understand the student's various cartographic techniques of analysis of socio-economic data.
M. A. I Semester II Field Project in Geography 23FP09221	Course Outcomes (COs) : 1) Remember the role and Ethics of Field Work 2) Understand the appropriate field Technique 3) Apply the knowledge of field survey in research 4) Design the field report

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: Sociology BA (NEP2020) SEM- I & II

Course Title	Programme Specific Outcomes (POs), Course Outcomes (Cos)
B. A. I Sociology	Programme Specific Outcomes (PSOs) <ul style="list-style-type: none">• Have moral values.• Have knowledge about health and social policy in India.• Have knowledge about society and its issues.• Have communication skills and social interaction.• Be capable of social mobility.• Be aware of research about social and culture reality in society.• Be able to appear for a competitive exam.• Have an interest in social work.• Respect the cultural heritage of pluralism and mutual respect.
B.A. I Semester I 23MJ07111 Introduction to Sociology- I, Credit -4	Course Outcomes (COs) : <ul style="list-style-type: none">• Students are introduced to the scientific methods used in sociological research. They learn how to design and conduct research studies, collect and analyze data, and interpret research findings. This cultivates their ability to evaluate the validity and reliability of research studies.• Students gain a deeper understanding of society as a complex system with various social structures, institutions, and processes. They learn about social groups, socialization, social stratification, social change, and other fundamental concepts that help explain how society functions.• Students develop cultural awareness and sensitivity by studying the diverse perspectives, values, and practices within different social groups and societies. They learn to appreciate and respect cultural differences, challenging ethnocentrism and promoting cultural relativism.
B.A. I Semester I 23MJ07112 Social Institutions credit -2	Course Outcomes (COs) : <ul style="list-style-type: none">• Students gain knowledge about the different social institutions, their functions, and their significance in society. They develop an understanding of how these institutions shape human behavior, interactions, and social order.

	<ul style="list-style-type: none"> By understanding social institutions, students become equipped to critically analyze societal issues and challenges. They can identify areas where institutions may be inequitable or require reform, leading to the development of advocacy skills and a commitment to social change. Social institutions help students become aware of the complex web of relationships and structures that make up society.
B.A. I Semester I 23MN07111- Changing Social Institution in India. Credit -4	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> The study of problems faced by the elderly will encourage students to analyze the challenges related to aging, care, and the changes in family structures and dynamics in modern times. Understanding Kinship System will recognize the significance of kinship systems in shaping social relations, family ties, and inheritance patterns. Secularism and the resurgence of religion in India will encourage students to analyze the complexities of secular governance and religious revivalism. Students will recognize the distinctions between traditional and professional education systems, appreciating their respective roles in skill development and knowledge acquisition
<p>B.A. I Semester</p> <p>OE-1: PAPER-I: Gender and Society</p> <p>23OE07111</p>	<p>Course Outcomes (COs) :</p> <ul style="list-style-type: none"> Students will explore the roles and expectations associated with gender, recognizing that these roles vary across cultures and historical periods. Students will understand how the family plays a crucial role in the social construction of gender, as it influences the transmission of gender norms and expectations. how religious beliefs and caste systems impact gender roles and inequalities in society. Students will understand the gendered division of labor in both organized and unorganized sectors, understanding the challenges women face in the workforce. Theories on gender will give a classical perspective on gender status, issues and problems Students will gain insights into gender-specific health issues and the impact of societal norms on access to healthcare and health outcomes.
BA Semester I- 23IK07111 IKS-1: Social Thoughts of Mahatma Basweshwar. Credit -2	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> Students learn about Basaveshwara's philosophy, principles,

	<p>and contributions to society. They develop an understanding of his social vision, which emphasized equality, justice, and empowerment.</p> <p>2. Students will understand Mahatma Basweshwara;s efforts to combat casteism and untouchability, appreciating his commitment to social justice and equality. & “Kayakve Kailas”, will encourage students to reflect on the importance of work as a means of spiritual growth and social progress.</p>
<p>BA Semester II- 23MJ07121 Introduction to Sociology –II, Credit -4</p>	<p>Course Outcomes (COs) :</p> <ul style="list-style-type: none"> • 1: Students will gain insights into the definition and characteristics of social groups, recognizing the significance of group dynamics in shaping human behavior and interactions. • 2: Students will recognize the meaning, definition, and functions of social control, and social deviance appreciating its role in maintaining social order and norms. And different agencies of social control, such as family, education, law, and religion, understanding their roles in shaping individual behavior. • 3: Students will gain insights into the definition and meaning of social movements, recognizing their significance in driving social change and addressing societal issues. • 4: Students will explore the various factors that contribute to social change, including technological advancements, demographic shifts, and cultural interactions.
<p>BA Semester II- 23MJ07122 Major- 2 Credit Socialization and Personality</p>	<p>Course Outcomes (COs) :</p> <ul style="list-style-type: none"> • 1: Students develop an awareness of how cultural and social factors impact personality development. They learn about cultural norms, values, and social expectations, and how they shape individuals' self-concepts and interactions with others. • 2 .encourages students to reflect on their own socialization experiences and their personal identity formation. They explore how their beliefs, values, and behaviours have been shaped by their social contexts and gain insights into their own personality traits and characteristics. • 3: Understanding personality contributes to students' personal and professional development. They gain insights into their own strengths and areas for growth,

	enhancing their self-awareness, adaptability, and resilience.
BA Semester- II- 23MN07121 Minor ,Credit-4 Rural Development	<p>Course Outcomes (COs) :</p> <ul style="list-style-type: none"> • 1: Students will gain insights into the nature of rural development, recognizing it as a dynamic and multifaceted process aimed at improving the overall well-being of rural communities. • 2: Students gain a comprehensive understanding of the social, economic, cultural, and environmental aspects of rural areas. • 3: Students will recognize the roles of government agencies and non-governmental organizations in implementing rural development programs and addressing rural issues. • 4: The study of the evaluation of globalization in agriculture will prompt discussions on the need for sustainable and inclusive agricultural practices in the era of globalization.
BA Semester- II, 23OE07121 Credit -4, OE-2: Environment and Society	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Students understand various approaches to environmental sociology 2. Students will understand the concept of environmental survival, recognizing the impact of human activities on the planet ability to sustain life. And the challenges of providing nutritious and sufficient food for a growing global population while maintaining ecological balance. 3. Students will gain insights into the importance of biodiversity, understanding the threats posed by habitat loss, species extinction, and the need for conservation efforts. 4. Students will explore significant international events related to environmental protection and conservation, such as climate summits and conventions, understanding the global efforts to address environmental challenges. the importance of balancing economic growth with environmental protection and social equity.
BA Semester II, 23SE07121 Case Study Credit -2	<p>Course Outcomes (COs) :</p> <ul style="list-style-type: none"> • 1: Students will understand the nature of case study research, recognizing it as an in-depth investigation of a particular individual, group, or phenomenon within its real-life context. and various sources for collecting data in case study research, such as interviews, observations, documents, and

	<p>artifacts. the differences between these two research approaches, and an understanding of their respective strengths and limitations.</p> <ul style="list-style-type: none"> • 2: Case study research and its planning process provide students with a deeper understanding of qualitative research methods and their application in real-life contexts. the diverse usages and advantages of case study research, such as providing detailed insights, exploring complex issues. and how case study research can contribute to theory-building by generating rich and nuanced descriptions that aid in developing and refining theoretical frameworks.
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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)
Name of the Department: Sociology MA. (NEP2020) SEM- I & II

Course Title	Programme Specific Outcomes (POs), Course Outcomes (Cos)
M. A. I Sociology	<p>Programme Specific Outcomes (PSOs)</p> <ul style="list-style-type: none"> • To development a cluster of sociologists who have right knowledge to deal with and to understand various social issues and problems. • To enable students to have in depth knowledge of Indian traditions society, culture, customs, ritual and Indian villages. • To sensitize students regarding those categories of the society who are at the peripheries and margins including: Women, Scheduled Castes, Scheduled Tribes, OBCs and others. • To train students for objectives and scientific researcher using appropriate and methodologies and approaches. • To develop in students social and human skills to make them apt for various life situations. • To develop leadership qualities in students so that they may be able to take appropriate

	<p>step in their lives for their own well-being and for the society at large.</p> <ul style="list-style-type: none"> • To make them capable of qualifying various others exams.
<p>M. A. I, Semester I, Paper-XV: Classical Sociological Tradition – I 23MM07211</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Students will gain an understanding of Marx's historical materialism, which analyzes how economic conditions shape society and history. They learn about the concept of class struggle, the role of the means of production, and the evolution of social systems. 2. Emile Durkheim, theory can have several outcomes, as he was a prominent sociologist and one of the founding figures of sociology as a discipline. His work focused on understanding the structure and function of society, and he made significant contributions to the study of social solidarity, division of labour, and the role of religion in society. 3. Max Weber, theory provides students with a rich understanding of sociological concepts, historical developments, and methodological approaches. It encourages critical thinking and the application of sociological insights to various aspects of modern society 4. Vilfredo Pareto's theory provides students with a unique perspective on the role of elites in society and Students would gain insights into the distinction between logical and non-logical aspects within Pareto's theories.
<p>MA I ,Semester I,Paper-XVI: Sociology of Indian Society – I 23MM07212</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Students will learn about the range of sociological theories and perspectives that have been developed and applied to the study of Indian society. These may include structural-functionalism, conflict theory, symbolic interactionism, feminist theory, Post-colonial theory, Subaltern, and more. 2. Students will learn about the vast cultural diversity in India, including languages, religions, customs, traditions, and regional variations. They will come to appreciate the coexistence of different cultures within the country. 3. Students will gain insights into the historical context of India during the colonial and post-colonial periods, understanding how social, political, and economic factors influenced the development of sociology as a discipline.

	<p>4. Historical moorings can help students recognize the continuity and changes in Indian culture, traditions, and belief systems over different periods of history.</p>
<p>MA I ,Semester I, Paper -XVII: Sociology of Change and Development- I 23MM07213</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Theories of social change empower students to comprehend the intricate dynamics of societies, the factors that influence their evolution, and the role of individuals and institutions in shaping these changes. 2. The study of Sanskritization, secularization, westernization, and modernization will highlight different societal responses to evolving social, cultural, and political dynamics. Students will explore how individuals and communities navigate these processes. 3. This unit will raise students’ awareness of the need to balance economic, social, and environmental concerns for the long-term well-being of societies and the planet. 4. By studying the works of Learner, McClelland, Levy, and Yogendra Singh, students will trace the historical development of modernization theory and its evolution over time.
<p>MA I ,Semester I, Paper – Major Subject: Elective DSC-III Elective DSC: PAPER -III: Social Movement in India 23ME07211</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Students will develop a clear understanding of the meaning and concept of social movements, is distinguishing them from other forms of collective action, such as riots or protests. 2. Theories of social movements, offers students a rich and multidimensional understanding of the motivations, dynamics, and impacts of collective action. 3. It inspires students to engage in discussions about agrarian reforms, social justice, and the importance of advocating for the rights of marginalized agricultural communities. 4. Empowers students with a nuanced understanding of the struggles and aspirations of tribal communities in India. cultural richness and diversity of indigenous peoples, tribal rights, social justice, and the importance of preserving and respecting the unique cultural heritage of tribal communities.
<p>MA I ,Semester I, Paper – Elective DSC: PAPER -III: Urban Sociology- I 23ME07212</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Students will assess urban sociology and demonstrate the nature and scope of urban sociology

	<ol style="list-style-type: none"> 2. Develop an understanding of trends of urbanization in India and the impact of urbanization on Indian society. 3. By studying the works of Wirth, Robert Redfield, and Simmel, students will gain insights into different theoretical perspectives on urbanism, including urbanism as a way of life, the rural-urban continuum, and the metropolis and mental life. 4. Develop awareness about urban problems and policies adopted to solve such problems.
<p>MA I ,Semester I, Major Subject: RM RM : Research Methodology 23RM07211</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Research methodology can lead to the development of new theories or the refinement of existing theories 2. Students learn about different research designs, such as experimental, observational, and survey research. 3. They understand the strengths and limitations of each design and can select the appropriate design for a specific research question. 4. By collecting and analyzing data, researchers can contribute to theoretical frameworks that explain Social phenomena, Social processes, or Social interactions.
<p>M. A. I Semester II Major Subject: DSC-XVIII DSC: PAPER-XVIII: Classical Sociological Tradition - II 23MM07221</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1: Students will gain insights into key sociological theories and concepts proposed by Merton, such as strain theory, manifest and latent functions, reference groups, Structural Functionalism, and the role of unintended consequences. 2: Structural functionalism and social systems theory provides students with a nuanced understanding of the complexities of social systems and the interplay between individual behaviour and larger societal structures. 3: The study of Parsons' ideas may inspire students to explore empirical research related to structural functionalism and social systems theory. 4: Students will gain insights into Simmel's focus on social interactions and how they shape individuals and society, understanding the significance of social relationships in daily life.
<p>MA I Semester II Major Subject: DSC: PAPER-XIX: Sociology of Indian Society – II 23MM07222</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. These scholars works will encourage students to recognize the intersectionality of various social aspects, such as culture, modernization, and historical context in shaping society.

	<ol style="list-style-type: none"> 2. Students will become more aware of the social and political issues faced by women, Dalits, and the environment, fostering empathy and a sense of social responsibility. 3. Students will assess the contemporary relevance of civilizational and culturological perspectives, understanding how they inform discussions on cultural heritage, diversity, and societal change. 4. Sociological Research in India, with a focus on specific fields and studies such as Nationalism and Secularism, Caste and Ethnic Groups, Rural and Urban Studies, and Studies in Religion, provides students with a deeper understanding of the sociocultural dynamics of India.
<p>MA I Semester-II: Major Subject, PAPER-XX: Sociology of Change and Development- II 23MM07223</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. This theory will encourage students to critically analyze the historical and contemporary economic relationships between core and peripheral nations and the dynamics of global inequalities, appreciating how the world is structured into core (centre) and periphery regions with varying levels of development. 2. The study of the socialist path, capitalist path, and Mixed economy of development will prompt discussions on the role of central planning, state ownership. The role of private ownership, market forces, and profit motive in driving economic growth And how elements of both capitalism and socialism are integrated to achieve economic and social goals. 3. Students will gain insights into the role of different agencies in development and modernization, understanding how education, polity, NGOs, elite, and leadership influence development policies and outcomes. 4. Students will explore the social consequences of economic reforms in India, understanding how liberalization, privatization, and globalization have influenced social structures and livelihoods. And appraisals of Five-Year Plans will encourage students to conduct social impact assessments, understanding how economic policies and development initiatives affect different sections of society.
<p>MA I Semester-II: Major Subject :PAPER-XIX: Sociology of Indian Society – II 23ME07221</p>	<p>Course Outcomes (COs) :</p> <ul style="list-style-type: none"> • 1: These scholars' works will encourage students to recognize the intersectionality of

	<p>various social aspects, such as culture, modernization, and historical context in shaping society.</p> <ul style="list-style-type: none"> • 2: Students will become more aware of the social and political issues faced by women, Dalits, and the environment, fostering empathy and a sense of social responsibility. • 3: Students will assess the contemporary relevance of civilizational and culturological perspectives, understanding how they inform discussions on cultural heritage, diversity, and societal change. • 4: Sociological Research in India, with a focus on specific fields and studies such as Nationalism and Secularism, Caste and Ethnic Groups, Rural and Urban Studies, and Studies in Religion, provides students with a deeper understanding of the sociocultural dynamics of India.
<p>MA I Semester-II: Major Subject: DSC: PAPER-XX: Sociology of Change and Development-II 23MM07223</p>	<p>Course Outcomes (COs) :</p> <ul style="list-style-type: none"> • 1: This theory will encourage students to critically analyse the historical and contemporary economic relationships between core and peripheral nations and the dynamics of global inequalities, appreciating how the world is structured into core (centre) and periphery regions with varying levels of development. • 2: The study of the socialist path, capitalist path, and Mixed economy of development will prompt discussions on the role of central planning, state ownership. he role of private ownership, market forces, and profit motive in driving economic growth. And how elements of both capitalism and socialism are integrated to achieve economic and social goals. • 3: Students will gain insights into the role of different agencies in development and modernization, understanding how education, polity, NGOs, elite, and leadership influence development policies and outcomes. • 4: Students will explore the social consequences of economic reforms in India, understanding how liberalization, privatization, and globalization have influenced social structures and livelihoods. And appraisals of Five-Year Plans will encourage students to conduct social impact assessments, understanding how economic policies and development initiatives affect different sections of society.
<p>MA I Semester-II: Major Subject: Elective</p>	<p>Course Outcomes (COs) :</p>

<p>PAPER -IV: Sociology of Health and Medicine 23ME07221</p>	<ul style="list-style-type: none"> • 1: Students will understand different sociological perspectives on health, such as functionalism, conflict theory, symbolic interactionism, and labeling theory, and how they contribute to the understanding of health-related issues. the relationship between health and other social institutions will prompt discussions on how health is influenced by factors such as family, education, and religion. • 2: The study of health care and health statistics will prompt discussions on the availability and accessibility of healthcare services and the use of data to inform health policies. The study of health care and health statistics will prompt discussions on the availability and accessibility of healthcare services and the use of data to inform health policies. • 3: Students will gain insights into the meaning, types, and functions of hospitals, recognizing their role as social organizations. And dynamics of the doctor-patient relationship, understanding how it influences healthcare delivery and patient experiences. • 4: Students will recognize the social, cultural, and psychological factors that contribute to the causation of illness. And understand different approaches to healthcare. various systems of medicine in India.
<p>MA I Semester-II: Major Subject: Elective DSC-IV Elective DSC: PAPER - IV: Urban Society in India - II 23ME07222</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. The study of migration streams will encourage students to analyze patterns of migration, considering the destinations and origins of migrant populations. 2. Students will recognize the importance of demographic and ecological factors in shaping social structures and migration patterns. And the social dimensions such as marriage, family, and religion will prompt discussions on how these institutions influence migration decisions and settlement patterns. 3. Students will explore the factors that affect urban planning decisions, including population growth, economic development, and environmental considerations. 4. Students will explore various sociological and criminological theories

	that explain the causes of crimes, understanding the social factors that contribute to criminal behavior.
MA I Semester-II: Major Subject: FP RP: Research Project/Dissertation	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. The outcome includes the presentation of research findings, analysis of data, and interpretation of results. This outcome contributes to empirical evidence and provides insights into the research topic or question. 2. The research project can contribute to raising awareness and promoting public engagement on specific Social issues. 3. The outcome may include recommendations for policy changes, Social reforms, or community initiatives to address Social issues or improve Social conditions.

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: Economics (NEP2020) I & II

Course Title	Programme Specific Outcomes (PSOs), Course Outcomes (Cos)
B. A. Economics	<p>Programme Specific Outcomes (PSOs)</p> <ol style="list-style-type: none"> 1. Apply the knowledge of economics in their own business decision making and for the personal purposes. 2. To get the knowledge in cracking various competitive exams. 3. Students will be able to understand government policies and programmers.
B.A. I Semester I Indian Economy (Major I) 23MJ05111	<p>Course Outcomes (COs)</p> <ol style="list-style-type: none"> 1. Ability to develop an understanding of the economic environment and the factors affecting economic environment. 2. Ability to develop awareness of which various problems facing by our Economy. 3. Ability to understand problems of rising prices and its effects. 4. Students will be able to understand the concept of Green Revolution and white Revolution.
B.A. I Semester I Basic Economics (Major	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Students will be able to understand basic concepts in Economics.

I) 23MJ05112	<p>2. Students become familiar with the concept of Demand and Supply.</p> <p>3. Students will be understood the Law of Demand and Law of Supply.</p> <p>4. At the end of the course, the student should be able discuss about basic Economics concepts.</p>
B.A. I Semester I Indian Banking (Minor) 23MN05111	<p>Course Outcomes (COs) :</p> <p>1. To understand the dynamics of Indian Banking System.</p> <p>2. To analyze the issues in the Banking System.</p> <p>3. To become familiar with the reforms in the Banking System.</p> <p>4. To understand the role of Central Banking and its monetary measures.</p>
B.A. I Semester I Indian Financial System (OE) 23OE05111	<p>Course Outcomes (COs) :</p> <p>1. Students will be able to understand the basic Financial System.</p> <p>2. Students will be familiar with the Indian Money Market.</p> <p>3. Students will be made aware about Indian Capital Market.</p> <p>4. Students become familiar with the Financial Services in India.</p>
B.A. I Semester I Economic Thoughts of Mahatma Gandhi (IKS) 23IK05111	<p>Course Outcomes (COs) :</p> <p>1. Learn the Gandhian idea of Economics with Indian and Western influences on it.</p> <p>2. Understand the Ethical approach in Gandhian Thought.</p> <p>3. Assimilate the core concept of Self Reliance & Self Sufficiency.</p> <p>4. Compare Gandhi's Economic thought with other contemporary Ideas.</p>
B.A. I Semester II Indian Economy (Major II) 23MJ05121	<p>Course Outcomes (COs) :</p> <p>1. Ability to develop an understanding role of Industry in Indian Economy.</p> <p>2. Ability to develop awareness on the LPG Model and Digital India.</p> <p>3. Students will understand the Economy of Maharashtra.</p> <p>4. At the end of the course, the student should be able to discuss and debate on the various issues and challenges facing by Agricultural sector and Co-operative sector.</p>
B.A. I Semester II Basic Economics (Major II) 23MJ05122	<p>1. To introduce basic concepts in Economics.</p> <p>2. To introduce the concept of Elasticity, Degrees of Elasticity of Demand, Determinants of Elasticity and Measurement of Elasticity of Demand.</p> <p>3. To make the students familiar with a strong base of knowledge about Indifference curve.</p> <p>4. To help the students to prepare for varied competitive examinations.</p>
B.A. I Semester II Indian Banking (Minor) 23MN05121	<p>1. To understand the changing scenario for development in the banking system.</p> <p>2. To make known the need for co-operative banks in the development of India.</p> <p>3. To enlighten the knowledge of capital market to the students.</p> <p>4. To make known the changing banking system with digitalization.</p>
B.A. I Semester II Indian Financial System (OE) 23OE05121	<p>1. Students will able to understand the current issues in Indian Economy.</p> <p>2. Students will able to analyze the current issues in Indian Economy.</p> <p>3. Students will able to understand economic policies of in India.</p> <p>4. Students will able to examine the impact of economic policies on Indian Economy.</p>
B.A. I Semester II	<p>1. Students will be able to know the opportunities in agri. business</p>

Agri Business (SEC) 23SE05121	2. Student will be able to understand the procedure of establishment of Agri processing product or business 3. Student will be able to self-employed in agribusiness.
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B.Com I Sem I 23MN05112	1). The students will be able to understand the nature of Business Economics 2). The students Will be able to Analyze the consumer behavior in the market. 3). The students will be able to understand the methods of measurement of demand forecasting. 4). The students Will be able to examine the business decision making and forward the planning
B.Com I Sem II 23MN05122	1). Students will be able to understand the concepts of cost and revenue. 2). Students will be able to analyze the production function theories. 3). Students will be understand the price and output determination in different market. 4). Students will be understand the determination of factor prices.

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: History (NEP2020) B.A. I & II

Course Title	Programme Specific Outcomes (PSOs), Course Outcomes (Cos)
B. A. History	Programme Specific Outcomes (PSOs)
B.A. I Semester I Rise of Maratha Power (AD 1630- AD 1707)-I (Minor) (23MN10111)	Course Outcomes (COs) 1) Understand the background and the inspiration behind the establishment of Swarajya. 2) Explain the reasons behind Chh. Shivaji's early conflicts with regional lords and the outsiders. 3) Know about the early conflicts of Chh. Shivaji with regional lords and outsider powers of Adilshahi and Mughal Empire. 4) Know about the importance of grand coronation of Chhatrapati Shivaji Maharaj.
B.A. I Semester I Buddhism and Jainism in Ancient India (IKS) (23IK10111)	Course Outcomes (COs) : 1) Students will be able to explain the historical and philosophical context of the emergence and decline of Buddhism and Jainism 2) Students will be able to critically analyze the impact of Buddhism and Jainism on Indian society, culture, and philosophy

	<p>3) Students will be able to apply Buddhist and Jain concepts to contemporary issues, such as environmental ethics, social justice, and personal well-being</p> <p>4) Students will develop a respect for diverse religious beliefs and practices</p>
<p>B.Com.-I Sem-I: & B.Sc.-I Sem-I: History of Ancient India (OE1) (23OE10111)</p>	<p>Course Outcomes (COs) :</p> <p>1) Students will be able to explain the key characteristics of the Paleolithic and Indus Valley Civilizations, including their social, economic, and cultural aspects.</p> <p>2) Students will be able to evaluate the impact of ancient Indian civilization on subsequent historical developments in India and beyond.</p> <p>3) Students will be able to apply historical knowledge and skills to analyze contemporary issues, such as cultural heritage, environmental sustainability, and governance.</p> <p>4) Students will develop a sense of historical empathy and appreciate the diversity of human experiences.</p>
<p>B.A. I Semester II Rise of Maratha Power (AD 1630- AD 1707)-II (Minor) (23MN10121)</p>	<p>Course Outcomes (COs) :</p> <p>1) Students will be able to know about the administrative system and its nature of Chh. Shivaji</p> <p>2) Students will be able to assess the Chh. Shivaji's invasion on Karnataka</p> <p>3) Students will be able to understand the formation of welfare state during the Maratha rule.</p> <p>4) Students will be able to understand the Industrial, trade, commerce and agricultural aspects of Chh. Shivaji's regime and the administrative aspects of the Swarajya</p>
<p>B.Com.-I Sem-II: & B.Sc.-I Sem-II: History of Ancient India (OE2) (23OE10121)</p>	<p>Course Outcomes (COs) :</p> <p>1) Students will be able to trace the origins and development of agriculture, industries in ancient India, including the types of crops cultivated and agricultural techniques used.</p> <p>2) Students will be able to analyze the economic and social implications of agricultural practices and industrial developments in ancient India.</p> <p>3) Students will be able to apply their knowledge of ancient Indian economic history to contemporary economic issues, such as globalization, sustainable development, and economic inequality.</p> <p>4) Students will develop an appreciation for the ingenuity and resilience of ancient Indian people in developing sustainable economic practices.</p>
<p>B.A.-II Sem-III: History of Mughal India (1526AD-1707AD) (Minor) (24MN10131)</p>	<p>Course Outcomes (COs) :</p> <p>1) Students will be able to acquaints with the various Mughal Rulers dynasty</p> <p>2) Students will be able to understand the History of Mughal Emperors like Babar, Humayun, Akbar, Jahangir, Shahajahan, and Aurangzeb.</p> <p>3) Students will be able to interpret arts, culture, architecture, monuments etc.</p> <p>4) Students will be able to understand different dynasty-wise wars</p>
<p>B.A.-II Sem-III: Sources of Mughal India (Minor)</p>	<p>Course Outcomes (COs) :</p> <p>1) Students will be able to evaluate the reliability and</p>

(24MN10132)	<p>limitations of various historical sources, such as coins, monuments, inscriptions, and literary texts</p> <p>2) They will be able to analyze these sources to reconstruct historical events, social structures, and cultural practices of ancient India.</p> <p>3) Students will gain a comprehensive understanding of the major historical periods and dynasties of ancient India, including the Mauryan, Gupta, and Mughal periods.</p> <p>4) They will be able to trace the evolution of Indian society, culture, and economy over time.</p>
B.COM. & B.Sc.-II Sem-III: Age of Revolution: The Great Revolutions of Europe (OE3) (24OE10131)	<p>Course Outcomes (COs) :</p> <p>1) Students will be able to analyze the social, economic, and political causes and consequences of the Industrial Revolution and the French Revolution.</p> <p>2) They will be able to evaluate the long-term impact of these revolutions on global history, including their influence on social, economic, and political systems.</p> <p>3) Students will be able to critically analyze primary and secondary sources related to the Industrial and French Revolutions.</p> <p>4) Students will be able to develop informed opinions about the significance of these revolutions and their relevance to contemporary issues.</p>
B.A.-II Sem-IV: History of India (1857AD-1950AD) (Minor) (24MN10141)	<p>Course Outcomes (COs) :</p> <p>1) Students will be able to understand the structural changes initiated by colonial rule in East Indian Company.</p> <p>2) Students will be able to explain the various revolts against rule of the East Indian Company.</p> <p>3) Students will be able to understand the events which lead to the growth of Nationalism in India.</p> <p>4) Students will be able to acquaint self with major events of the freedom struggle under the leadership of Mahatma Gandhi then they can identify the concept of communism and the effects of the partition of India.</p>
B.A. -II Sem-IV: Constitutional Development of India (Minor) (24MN10142)	<p>Course Outcomes (COs) :</p> <p>1) Students will be able to analyze the impact of the Acts of 1909, 1919, and 1935 on Indian politics.</p> <p>2) They will understand the key stages and turning points of the Indian Independence Movement.</p> <p>3) Students will learn about the process of drafting the Indian Constitution and the principles that underpin it.</p> <p>4) They will understand the features, values, and principles of the Indian Constitution.</p>

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: Physics (NEP2020) I & II

Course Title	<i>Programme Specific Outcomes (PSOs), Course Outcomes (Cos)</i>
B.Sc.Physics B.Sc. I Semester I Mechanics And Properties of Matter (Major) 23MJ32111	<i>Programme Specific Outcomes (PSOs)</i> Students will, 1) Demonstrate the ability to use skills in Physics for formulating and tackling Physics-related problems through patience, intellectual reasoning and problem solving. 2) Apply critical reasoning skills with ethical moralities to solve Physics related problems with precision and accuracy.
B.Sc. I Semester I Optics and LASER (Major) 23MJ32112	<i>Programme Specific Outcomes (PSOs)</i> Students will, 1) Acquire fundamental intelligible understanding of the speculative field of Physics to enhance the ability of micro-observation, deep thinking and analytical skills. 2) Demonstrate relevant generic skills and global competencies such as problem-solving skills, investigative skills, communication skills involving, analytical skills, ICT skills; personal skills such as the ability to work both independently and in a group
B.Sc. I Semester I PHYSICS PRACTICAL-I (Major) 23MJ32113	<i>Programme Specific Outcomes (PSOs)</i> Students will, 1) Demonstrate relevant generic skills and global competencies such as problem-solving skills, investigative skills, communication skills involving, analytical skills, ICT skills; personal skills such as the ability to work both independently and in a group 2) Demonstrate professional behavior such as being objective, unbiased and truthful in all aspects of work and avoiding unethical,

	<i>irrational behaviour such as fabricating, falsifying or misrepresenting data or committing plagiarism</i>
B.Sc. I Semester I Study of Physical Dimensions and Measurements (Minor) 23MN32111	<i>Programme Specific Outcomes (PSOs) Students will, 1) Demonstrate the ability to use skills in Physics for formulating and tackling Physics-related problems through patience, intellectual reasoning and problem solving. 2) Apply critical reasoning skills with ethical moralities to solve Physics related problems with precision and accuracy.</i>
B.Sc. I Semester I PHYSICS PRACTICAL-I (Minor) 23MN32112	<i>Programme Specific Outcomes (PSOs) Students will, 1) Demonstrate professional behavior such as being objective, unbiased and truthful in all aspects of work and avoiding unethical, irrational behavior such as fabricating, falsifying or misrepresenting data or committing plagiarism 2) Demonstrate professional behavior such as the ability to identify the potential ethical issues in work-related situations; appreciation of intellectual property, environmental and sustainability issues; and promoting safe learning and working environment.</i>
B.Sc. I Semester I Physics for Everyone (OE) 23OE32111	<i>Programme Specific Outcomes (PSOs) Students will, 1) Demonstrate professional behavior such as being objective, unbiased and truthful in all aspects of work and avoiding unethical, irrational behavior such as fabricating, falsifying or misrepresenting data or committing plagiarism 2) Demonstrate professional behavior such as the ability to identify the potential ethical issues in work-related situations; appreciation of intellectual property, environmental and sustainability issues; and promoting safe learning and working environment.</i>
B.Sc. I Semester I Ancient Indian Science – Physics (IKS) 23IK32111	<i>Programme Specific Outcomes (PSOs) Students will, 1) Demonstrate professional behavior such as being objective, unbiased and truthful in all aspects of work and avoiding unethical, irrational behavior such as fabricating, falsifying or misrepresenting data or committing plagiarism 2) Demonstrate professional behavior such as the ability to identify the potential ethical issues in work-related situations; appreciation of</i>

	<i>intellectual property, environmental and sustainability issues; and promoting safe learning and working environment.</i>
B.Sc. I Semester I Mechanics And Properties of Matter(Major) 23MJ32111	<i>Course Outcomes (COs)</i> <i>Students will,</i> 1) <i>acquire knowledge about MI, analyze and evaluate MI with respect to mass, shape, and dimensions of the body</i> 2) <i>gain knowledge about oscillatory motion, analyze, synthesize, apply, and evaluate the elastic properties of a body</i> 3) <i>gain knowledge about elasticity of a body, analyze, apply, and synthesize the elastic properties of a body</i> 4) <i>gain knowledge about pressure, temperature and ST and interrelation between them. On basis of this knowledge student will comprehend, apply, analyze, and evaluate properties of fluids related to ST</i>
B.Sc. I Semester I Optics and LASER(Major) 23MJ32112	<i>Course Outcomes (COs):</i> <i>Student will,</i> 1) <i>comprehend, apply, and evaluate the optical properties of light based on the knowledge gained on geometrical optics</i> 2) <i>apply, analyze, synthesize, and evaluate the light and medium properties</i> 3) <i>gain knowledge about diffraction and apply, analyze, and evaluate the properties of light and medium</i> 4) <i>gain knowledge about LASER and apply, analyze, and evaluate LASER and their properties.</i>
B.Sc. I Semester I PHYSICS PRACTICAL-I (Major) 23MJ32113	<i>Course Outcomes (COs):</i> <i>Student will,</i> 1) <i>acquire knowledge about Space and Dimension, analyze and interpret the physical parameters like size, mass, shape, and dimensions of the physical body</i> 2) <i>gain knowledge about physical and electrical parameters of a body, analyze, apply and evaluate the physical and electrical parameters of a body</i> 3) <i>gain knowledge about measurement of parameters of a body, measure, evaluate and analyze the physical and electrical parameters of a body of a body</i> 4) <i>measure, analyze, and evaluate the physical and electrical parameters</i>
B.Sc. I Semester I Study of Physical Dimensions and Measurements (Minor) 23MN32111	<i>Course Outcomes (COs):</i> <i>Student will,</i> 1) <i>acquire knowledge about Space and Dimension, analyze and interpret the physical parameters like size, mass, shape, and dimensions of the physical body</i> 2) <i>gain knowledge about physical and electrical parameters of a body, analyze, apply and evaluate the physical and electrical parameters of a body</i> 3) <i>gain knowledge about measurement of</i>

	<p>parameters of a body, measure, evaluate and analyze the physical and electrical parameters of a body of a body</p> <p>4) measure, analyze, and evaluate the physical and electrical parameters</p>
<p>B.Sc. I Semester I PHYSICS PRACTICAL-I (Minor) 23MN32112</p>	<p><i>Course Outcomes (COs):</i> <i>Student will,</i></p> <ol style="list-style-type: none"> 1) acquire knowledge about Space and Dimension, analyze and interpret the physical parameters like size, mass, shape, and dimensions of the physical body 2) gain knowledge about physical and electrical parameters of a body, analyze, apply and evaluate the physical and electrical parameters of a body 3) gain knowledge about measurement of parameters of a body, measure, evaluate and analyze the physical and electrical parameters of a body of a body 4) measure, analyze, and evaluate the physical and electrical parameters
<p>B.Sc. I Semester I Physics for Everyone (OE) 23OE32111</p>	<p><i>Course Outcomes (COs):</i> <i>Student will,</i></p> <ol style="list-style-type: none"> 1)understand, interpret, apply and evaluate their daily experiences from the knowledge gained by understanding Work, Energy and Power concepts 2)understand, experience and explain their daily experiences from the knowledge gained by understanding concepts of Gravitation and Force 3)understand and explain the structure, functions, and defects in vision of Human eye 4)understand and explain the physical concepts behind naturally occurring reflection, refraction, dispersion and scattering of light.
<p>B.Sc. I Semester I Ancient Indian Science – Physics (IKS) 23IK32111</p>	<p><i>Course Outcomes (COs):</i> <i>Student will</i></p> <ol style="list-style-type: none"> 1)familiarized with major sequential development in Indian science, engineering, and technology 2)able to review & strengthen the ancient discovery and research in physics, chemistry, maths, metallurgy, astronomy, architecture, textile, transport, agriculture, and Ayurveda etc. 3)trace, identify and develop the ancient knowledge systems to make meaningful contribution to development of science today 4)understand the apparently rational, verifiable, and universal solution from ancient Indian knowledge system for the scientific, technological, and holistic development of physical, mental, and spiritual wellbeing
<p>B. Sc. Physics B.Sc. I Semester II Heat and Thermodynamics(Major)</p>	<p><i>Programme Specific Outcomes (PSOs)</i> <i>Students will,</i></p> <ol style="list-style-type: none"> 1)Demonstrate the ability to use skills in Physics

<p>23MJ32121</p>	<p><i>for formulating and tackling Physics-related problems through patience, intellectual reasoning and problem solving.</i></p> <p><i>2) Apply critical reasoning skills with ethical moralities to solve Physics related problems with precision and accuracy.</i></p>
<p>B.Sc. I Semester II Electricity, Magnetism and Electronics(Major) 23MJ32122</p>	<p><i>Programme Specific Outcomes (PSOs)</i> <i>Students will,</i></p> <p><i>1)Acquire fundamental intelligible understanding of the speculative field of Physics to enhance the ability of micro-observation, deep thinking and analytical skills.</i></p> <p><i>2)Demonstrate relevant generic skills and global competencies such as problem-solving skills, investigative skills, communication skills involving, analytical skills, ICT skills; personal skills such as the ability to work both independently and in a group</i></p>
<p>B.Sc. I Semester II PHYSICS PRACTICAL-I (Major) 23MJ32123</p>	<p><i>Programme Specific Outcomes (PSOs)</i> <i>Students will,</i></p> <p><i>1)Demonstrate relevant generic skills and global competencies such as problem-solving skills, investigative skills, communication skills involving, analytical skills, ICT skills; personal skills such as the ability to work both independently and in a group</i></p> <p><i>2)Demonstrate professional behavior such as being objective, unbiased and truthful in all aspects of work and avoiding unethical, irrational behaviour such as fabricating, falsifying or misrepresenting data or committing plagiarism</i></p>
<p>B.Sc. I Semester II Fundamentals of Thermodynamics, Electricity, Electronics and Magnetostatics (Minor) 23MN32121</p>	<p><i>Programme Specific Outcomes (PSOs)</i> <i>Students will,</i></p> <p><i>1)Demonstrate the ability to use skills in Physics for formulating and tackling Physics-related problems through patience, intellectual reasoning and problem solving.</i></p> <p><i>2) Apply critical reasoning skills with ethical moralities to solve Physics related problems with precision and accuracy.</i></p>
<p>B.Sc. I Semester II PHYSICS PRACTICAL-I (Minor) 23MN32122</p>	<p><i>Programme Specific Outcomes (PSOs)</i> <i>Students will,</i></p> <p><i>1) Demonstrate professional behavior such as being objective, unbiased and truthful in all aspects of work and avoiding unethical, irrational behavior such as fabricating, falsifying or misrepresenting data or committing plagiarism</i></p> <p><i>2) Demonstrate professional behavior such as the ability to identify the potential ethical issues in work-related situations; appreciation of intellectual property, environmental and</i></p>

	<i>sustainability issues; and promoting safe learning and working environment.</i>
B.Sc. I Semester II Physics of Entertainment (OE) 23OE32121	<i>Programme Specific Outcomes (PSOs)</i> <i>Students will,</i> 1) <i>Demonstrate professional behavior such as being objective, unbiased and truthful in all aspects of work and avoiding unethical, irrational behavior such as fabricating, falsifying or misrepresenting data or committing plagiarism</i> 2) <i>Demonstrate professional behavior such as the ability to identify the potential ethical issues in work-related situations; appreciation of intellectual property, environmental and sustainability issues; and promoting safe learning and working environment.</i>
B.Sc. I Semester II Skill Enhancement through Learning of Physics(SEC) 23SE32121	<i>Programme Specific Outcomes (PSOs)</i> <i>Students will,</i> 1) <i>Demonstrate professional behavior such as being objective, unbiased and truthful in all aspects of work and avoiding unethical, irrational behavior such as fabricating, falsifying or misrepresenting data or committing plagiarism</i> 2) <i>Demonstrate professional behavior such as the ability to identify the potential ethical issues in work-related situations; appreciation of intellectual property, environmental and sustainability issues; and promoting safe learning and working environment.</i>
B. Sc. Physics B.Sc. I Semester II Heat and Thermodynamics (Major) 23MJ32121	<i>Course Outcomes (COs)</i> <i>Students will,</i> 1) <i>comprehend, apply, and analyze the behavior of gases based on temperature, viscosity, and conductivity of the gases and medium.</i> 2) <i>knowledge acquired on liquification of gases to apply, analyze, synthesize, and evaluate phase change from gaseous state to liquid state</i> 3) <i>knowledge gained about thermodynamics to comprehend, apply, and evaluate the effect of temperature on the existence on physical state of body.</i> 4) <i>apply, comprehend, analyze, and evaluate heat engines.</i>
B.Sc. I Semester II Electricity, Magnetism and Electronics (Major) 23MJ32122	<i>Course Outcomes (COs):</i> <i>Student will,</i> 1) <i>apply, evaluate, and analyze the functions, properties, and use of DC signals to electrical circuits.</i> 2) <i>apply, analyze, and evaluate the functions, properties, and use of AC signals to electrical circuits.</i> 3) <i>apply, analyze, and evaluate the practical importance & drawbacks of magnetostatics.</i>

	4) apply, analyze, and evaluate the properties, applications & precautions while handling electronic devices.
B.Sc. I Semester II PHYSICS PRACTICAL-I (Major) 23MJ32123	<i>Course Outcomes (COs):</i> <i>Student will,</i> 1) acquire knowledge about Space and Dimension, analyze and interpret the physical parameters like size, mass, shape, and dimensions of the physical body 2) gain knowledge about physical and electrical parameters of a body, analyze, apply and evaluate the physical and electrical parameters of a body 3) gain knowledge about measurement of parameters of a body, measure, evaluate and analyze the physical and electrical parameters of a body of a body 4) measure, analyze, and evaluate the physical and electrical parameters
B.Sc. I Semester II Fundamentals of Thermodynamics, Electricity, Electronics and Magnetostatics (Minor) 23MN32121	<i>Course Outcomes (COs):</i> <i>Student will,</i> 1) Students will use the knowledge gained about thermodynamics to comprehend, apply, and evaluate the effect of temperature on the existence on physical state of body. 2) <i>apply, analyze, and evaluate the functions, properties, and use of AC and DC signals to electrical circuits</i> 3) <i>apply, analyze, and evaluate the practical importance & drawbacks of magnetostatics.</i> 4) <i>apply, analyze, and evaluate the properties, applications & precautions while handling electronic devices.</i>
B.Sc. I Semester II PHYSICS PRACTICAL-I (Minor) 23MN32122	<i>Course Outcomes (COs):</i> <i>Student will,</i> 1) acquire knowledge about Space and Dimension, analyze and interpret the physical parameters like size, mass, shape, and dimensions of the physical body 2) gain knowledge about physical and electrical parameters of a body, analyze, apply and evaluate the physical and electrical parameters of a body 3) gain knowledge about measurement of parameters of a body, measure, evaluate and analyze the physical and electrical parameters of a body of a body 4) measure, analyze, and evaluate the physical and electrical parameters
B.Sc. I Semester II Physics of Entertainment (OE) 23OE32121	<i>Course Outcomes (COs):</i> <i>Student will,</i> 1) <i>able to understand, interpret and apply Physics to Music and musical instruments</i> 2) <i>able to review & understand and explain the construction and working of musical instruments</i> 3) <i>able to identify, apply and interpret the</i>

	<p><i>physical laws and concepts behind Dance</i></p> <p><i>4) understand the Physics behind sports and explain the scientific, technological, and holistic development of physical, mental, and spiritual wellbeing behind playing different sports.</i></p>
<p>B.Sc. I Semester II Skill Enhancement through Learning of Physics (SEC) 23SE32121</p>	<p><i>Course Outcomes (COs):</i></p> <p><i>Student will</i></p> <p><i>1) familiar with advanced techniques for the interpretation of data quantitatively and systematically.</i></p> <p><i>2) understand the theoretical principles of basic and more advanced Practical Physics.</i></p> <p><i>3) apply their problem-solving skills to solve problems using numerical methods</i></p> <p><i>4) develop their presentation skills sufficiently to be able to write fluent and well-structured reports, including lay summaries</i></p>

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: Chemistry (NEP2020) I & II

Course Title	Programme Specific Outcomes (PSOs), Course Outcomes (Cos)
B.Sc. Chemistry	Programme Specific Outcomes (PSOs) 1) Correlate and apply the theoretical chemistry knowledge in explaining practical schemes. 2) Solve numerical problems, mechanisms, analytical interpretation using chemistry concepts and knowledge. 3) Analyse chemical species qualitatively and quantitatively using appropriate Analytical techniques. 4) Create awareness and promote research attitudes among students. 5) Embrace reduces, recycle and restore chemicals (3R's) approach and gain the sense of ethical, social and environmental awareness and responsibility.
B.Sc.I Semester I DSC1-T1(Major) Physical Chemistry 23MJ31111	Course Outcomes (COs) 1. Draw graphs by using variables. 2. Apply rules of differentiation and integration to various Chemical equations. 3. Prepare standard solutions of different concentrations. 4. Define and differentiate between order and molecularity of the reaction. 5. Derive an equation for rate constant of first and second order reaction. 6. Define the fundamental concepts of thermodynamics. 7. Calculate the efficiency of heat engine from given data. 8. Distinguish between ideal and non-ideal gases. 9. Formulate the relation between Vander wall's constant and critical constants. 10. Differentiate between concentration terms normality & molarity of the solution. 11. Solve numerical problems related to theory.
B.Sc.I Semester I DSC1-T2 (Major) Inorganic Chemistry	Course Outcomes (COs) : 1. Define and identify various types of chemical bonds. 2. Predict shapes of molecules based on number of electron pairs with respect to VSEPR.

	<p>3. Draw the various molecular orbitals based on MOT</p> <p>4. Identify and draw the geometry of molecule from hybridization</p> <p>5. Calculate the bond order and stability of simple molecules like O₂, N₂, CO & NO.</p> <p>6. Apply the Hund's rule of maximum multiplicity.</p>
B.Sc.I Semester I DSC1-Practical-I T1&T2	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Hands on use of eudiometer to determine equivalent weight of metal. 2. Application of reaction rates to study hydrolysis of methyl acetate. 3. Examine the study of second order reaction. 4. Develop the skill for the preparation of standard solution of any concentration. 5. Apply the various synthetic skills to prepare inorganic complexes.
B.Sc.I Semester I DSC2-T1 (Minor) Fundamental Chemistry-I 23MN31111	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Define and identify various types of chemical bonds. 2. Determine bond length, bond angle and bond energy. 3. Classify the elements in properly in the periodic table. 4. Predict shapes of molecules based on number of electron pairs with respect to VSEPR theory. 5. Prepare standard solutions of different concentrations. 6. Apply mole concept to ionic compounds. 7. Identify pollute and pollutant. 8. Differentiate hazardous chemicals in the environment.
B.Sc.I Semester I DSC2-Practical -I	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Application of reaction rates to study hydrolysis of methyl acetate. 2. Develop the skill for the preparation of standard solution of any concentration. 3. Understand handling skill of eudiometer. 4. Preparation of acidic buffers for different pH.
B.Sc.I Semester I OE1 Chemistry in daily life 23OE31111	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Understand the chemistry in ancient India. 2. Apply the use of acids, bases and salt in daily life 3. Understand the chemical constituents in various day to day materials using by a commonman. 4. Recognise the chemical constituents in vitamins, soaps and detergents. 5. Recognize the adulteration of foods. 6. Understand chemistry in the atmosphere.
B.Sc.I Semester I IKS Metallurgy in India 23IK31111	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Gain the knowledge of metallurgical processes. 2. Understand the availability and distribution of iron ores in India. 3. Gain the knowledge of preparation of iron ore for extraction. 4. Apply the knowledge of protection from corrosion.
B.Sc.I Semester II DSC1-T3(Major) Organic Chemistry 23MJ31121	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1. Able to predict the mechanism of aromatic electrophilic substitution reactions. 2. Explain the structure of reaction intermediates and their role

	<p>in reaction mechanism.</p> <ol style="list-style-type: none"> Differentiate between optical, geometrical and conformational isomers. Draw the real 3D structure of molecules. Describe the methods of synthesis of alkanes, alkenes & alkynes and their chemical properties. Define aromaticity and apply the Huckel's rule to explain aromaticity. Comment on Aromatic/Nonaromatic character of compounds.
<p>B.Sc.I Semester II DSC1-T4(Major) Analytical Chemistry 23MJ31122</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> Explain and define the physical properties of liquids such as surface tension, viscosity and dipole moment. Explain principle, reactions, procedure and calculations needed for qualitative and quantitative analysis of organic compounds. Identify the oxidation-reduction reactions and also able to balance reactions. Describe the types of catalysis and mechanism Describe the factors affecting water and air pollution and health hazardous. Discuss the applications of petrochemical compounds.
<p>B.Sc.I Semester II DSC1 Practical T3&T4</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> Determine the viscosity of different liquids. Establish the heat of ionization of weak acid. Identify the presence of cations in a solution by using spot chemical tests. Develop hands on expertise for the paper chromatographic techniques. Estimate quantitatively the amount of given drug samples. Identify the given organic compounds qualitatively by applying various simple laboratory tests. Prepare benzoic acid from benzamide. Determine the melting and boiling point of given organic compound.
<p>B.Sc.I Semester II DSC2-T2 : Fundamental Chemistry-II 23MN31121</p>	<p>Course Outcomes (COs)</p> <ol style="list-style-type: none"> Draw the various types of graph by proper scale. Apply the rules of differentiation and integration. Understand bond breaking of homolytic and heterolytic reactions. Recall catalytic reactions of hydrogenation and halogenation. Nomenclature methods of formation cycloalkanes. Understand M. O. Diagrams w.r.t. bond order, stability and magnetic property. Differentiate the contamination of water and apply method for purification. Apply physical and chemical method for removal of germs and bacteria
<p>B.Sc.I Semester II DSC2-Practical-I :</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> <i>Develop the skill for the preparation of standard solution of any concentration.</i> Understand handling skill of viscometer and eudiometer.

	<ol style="list-style-type: none"> 3. Apply paper chromatographic technique for separation and identification of cations. 4. <i>Identify the organic compounds.</i>
B.Sc.I Semester II OE2: Chemistry for Society 23OE31121	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. Explain the acid rain, global warming. 2. Classify pollution and its type. 3. Recognize deficiencies in the plant. 4. Classify drugs and common drugs. 5. Understand hazardous plastic for the environment. 6. Elaborate chemicals used in sports equipment. 7. Discuss the Performance testing methods of players. 8. Measure the amount of chlorine in water.
B.Sc.I Semester II SEC1: Basic Analytical Chemistry Techniques 23SE31121	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. Know the electronic analytical balance, Weights and calibration of apparatus. 2. Understand the units of volume, effect of temperature on volume measurement. 3. Apply the principle of titrimetric analysis. 4. Recognize the natural products from chromatography technique.
M.Sc.I Semester I Major Mandatory: DSC- T1 :Fundamental Organic Chemistry-I(23MM31211)	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. Identify organic acids and study their properties 2. Comment on acidic and basic strength trends 3. Apply Hammett equation to determine strength of aromatic acids 4. Apply various concepts to understand structure and stability of intermediates
M.Sc.I Semester I Major Mandatory: DSC- T2 : Fundamental Organic Chemistry-II(23MM31212)	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. Accurately think of reaction conditions and predict the possibility of intermediate generation 2. Write an accurate reaction mechanism 3. Assign correct R and S configuration and predict chirality in given organic compound 4. Apply Bayer-Villiger rearrangement.
M.Sc.I Semester I Major Mandatory: DSC- T3 : Physical Chemistry (23MM31213)	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. Understand the Schrodinger wave equation, particle in one dimensional box, the particle in three-dimensional box. 2. Know about different laws of thermodynamics. Also able to derivations of Maxwell's Relations and Phase rule. 3. <i>Be conceptually strong in basics of statistical thermodynamics.</i>
M.Sc.I Semester I Major Mandatory: DSC- P1 : Practical based on DSC-T1 (23MM31214)	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. Identify the organic compounds. 2. Prepare the derivatives of compounds. 3. Apply the extraction process. 4. Apply thin layer chromatography.
M.Sc.I Semester I Major Mandatory: DSC- P2 : Practical based on DSC- T2(23MM31215)	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. <i>Prepare the derivatives of compounds.</i> 2. <i>Understand the different organic reactions.</i> 3. <i>Apply one stage preparation method.</i>
M.Sc.I Semester I Major Elective: DSE- T1 :	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. Understand the importance of importance of Ligand Field

Inorganic Chemistry (23ME31211)	<p>Theory</p> <ol style="list-style-type: none"> Apply easily the concept of distortion to complexes. Distinguish between metal clusters carbonyls and their classification. Also, the bonding and application of 18e-rule. Able to draw the structures for various carbonyls.
M.Sc.I Semester I Major Elective: DSE- P1: Practical based on DSE-T1 (23ME31212)	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> Analyse the given ore. Synthesize the complexes. Recall the alloy analysis Identify the purity of compounds.
M.Sc.I Semester I Major Elective: DSE- T1: Analytical Chemistry-I (23ME31213)	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> Understand the basics of inorganic spectroscopic techniques. Able to find the number of lines in ESR spectrum of simple molecules. Able to understand the Mössbauer effect to the investigations of compounds of iron (Fe) and tin (Sn). Comment on thermal stabilities of materials
M.Sc.I Semester I Major Elective: DSE- P1: Practical based on DSE-T1 (23ME31214)	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> Determine calcium from drug sample. Apply Lambert-Beer's law. Analyse the pharmaceutical tablets. Estimate the concentration of acids.
M.Sc.I Semester I RM: Research Methodology In Organic Chemistry (23RM31211)	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> Understand the basics of research articles. Differentiate between research paper and review articles Able to apply the advanced separation techniques. Able to handle the software for research data plotting and drawing their structures. Understand the importance of research. Able to find research papers and aware about current trends in research. Become familiar with Scopus, H-index, reviewed research journals, Scientific writing etc.
M.Sc.I Semester II Major Mandatory: DSC- T4 : Applied Organic Chemistry (23MM31221)	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> Understand the basics of arenium ion, orientation and reactivity in nitration, sulphonation and Friedel-Crafts reaction. Easily comment on regioselectivity and chemoselectivity in Carbon-Carbon multiple bond addition reaction. Understand the role of carbon as nucleophile in organometallic compounds and Carbon-Carbon bond formation. Think and predict the possible mechanism of various critical organometallic (Grignard reagent, organo zinc and organo lithium) reagents and their reactions. Imagine and predict the important E₁, E₂ and E₁C_B mechanisms.
M.Sc.I Semester II Major Mandatory: DSC- T5: Principles of Organic Synthesis (23MM31222)	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> Differentiate between different types of stereoisomers Classify between oxidizing, reducing and organic reagents Predict the accurate mechanism for various name reactions Assign the R, S and E/Z configuration to obtained reaction product Apply suitable/selective oxidizing or reducing reagent for organic

	reactions
M.Sc.I Semester II Major Mandatory:DSC-T6:Applied Inorganic Chemistry (23MM31223)	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. Know about magnetic properties of substance, relation between magnetism and temperature 2. Understand the importance of electronic spectra. 3. Draw Orgel diagram and predict the possible electronic transitions responsible for coloration. 4. Calculate accurate magnetic moment for 3d and 4d complexes 5. <i>Predict the accurate geometry of compounds based on number of bonding pairs.</i>
M.Sc.I Semester II Major Mandatory:DSC-P3: Practical based on DSC-T4 (23MM31224)	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. Purification and identification of organic compounds. 2. Identify functional groups. 3. Apply microscale techniques. 4. Estimate the organic compounds by various methods.
M.Sc.I Semester II Major Mandatory:DSC-P4: Practical based on DSC-T5(23MM31225)	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. <i>Prepare the compound with applying various reaction methods.</i> 2. <i>SynthesizeBIGINELLI Pyrimidine.</i> 3. <i>Apply the skill of preparation for organic compounds.</i>
M.Sc.I Semester II Major Elective: DSE-T2: Applied Physical Chemistry (23ME31221)	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. <i>Understand basics and advances in photochemistry like electronicexcitation, photo-dissociation and Pre-dissociation, photo-reduction,photo-oxidation.</i> 2. Recognise and draw Jablonski diagram. 3. Understandhigherorderkinetics.
M.Sc.I Semester II Major Elective: DSE-P2:Practical based on DSE-T2(23ME31222)	Course Outcomes (COs) : <ol style="list-style-type: none"> 1.Comparisonofacid strength 2. Skill developed under handling of various instruments. 3. Determine the structure of given liquids. 4. Estimate the halide present in the liquids.
M.Sc.I Semester II Major Mandatory: DSE- T2 : Analytical Chemistry-II (23ME31223)	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. Understand basics of spectroscopy, EMR, absorption, electronic,rotationalandvibrationaltransitions. 2. Calculateabsorptionmaximaforvariousorganiccompounds. 3. Becomefamiliarwithfrequenciesforvariousfunctionalgroups. 4. Applyseparationtechniques.
M.Sc.I Semester II Major Elective: DSE-P2:Practical based on DSE-T2(23ME31224)	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. Apply Separationandestimation techniques. 2. Analysepharmaceuticaltablet. 3. Identify CaffeineinTeaPowder. 4.Apply & verifyBeer–Lambert’sLaw
M.Sc.I Semester II Field Project:FP: (23FP31221)	Course Outcomes (COs) : <ol style="list-style-type: none"> 1. Recallwriting project report. 2. CreateProject Report. 3.Apply the knowledge of problem solving.

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: Mathematics (NEP2020) I & II

Course Title	Programme Specific Outcomes (PSOs), Course Outcomes (Cos)
B.Sc.Mathematics	Programme Specific Outcomes (PSOs) PSO1: Solid Foundation in Knowledge: Bachelor Degree in Mathematics is the culmination of in-depth knowledge of many core branches of mathematics, viz. Algebra, Calculus, Geometry, Differential Equations, Metric Space, Real and Complex Analysis including some related areas like Computer Science and Statistics. Thus, this programme helps students in building a solid foundation for further higher studies and research in Mathematics. PSO 2: Problem Solving: Students undergoing this programme learn to logically question assertions, to recognize patterns and to distinguish between essential and irrelevant aspects of problems. This helps them to learn behave responsibly in a rapidly changing interdependent society.
B.Sc. I Semester I CourseTitles: Algebra Class: B Sc. I: Semester: I Title of the Paper (Course code: 23MJ33111)	Course Outcomes (COs) Upon successful completion of the course, students will be able: 1) To find rank of the matrix, inverse of

	<p>matrix by using Cayley-Hamilton theorem.</p> <ol style="list-style-type: none"> 2) To obtain the solution system of linear equations, 3) To find Modulus and Argument of a complex numbers, De-Moiver's theorem and its applications, Roots of Complex number.
<p>CourseTitles: Calculus Class: B Sc. I: Semester: I Title of the Paper (Course code 23MJ33112)</p>	<p>Course Outcomes (COs) : Upon successful completion of the course, students will be able to</p> <ol style="list-style-type: none"> 1. Evaluate the limits using L'Hospital rule. 2. Find the nth derivatives using properties. 3. Apply the Leibnitz rule 4. Find higher order partial derivatives using definitions.
<p>CourseTitles: Fundamentals of Mathematics Class: B Sc. I: Semester: I Title of the Paper (Course code:23MN33111)</p>	<p>Course Outcomes (COs) :</p> <ol style="list-style-type: none"> 1) Understand Relations, Functions and Logic. 2) Find gcd by using division algorithm and Euclidean algorithm. 3) Solve determinant, inverse of the matrix and find eigen values and eigen vectors.
<p>CourseTitles: Quantitative Aptitude Class: B Sc. I: Semester: I Title of the Paper (Course code:23OE33111)</p>	<p>Course Outcomes (COs) : The student will be able to</p> <ol style="list-style-type: none"> 1) Improve arithmetical ability skill. 2) Enhance problem solving skill.
<p>CourseTitles: Vedic Mathematics Class: B Sc. I: Semester: I Title of the Paper (Course code: 23IK33111)</p>	<p>Course Outcomes (COs) : The student will be able to</p> <ol style="list-style-type: none"> 1) Learn Vedic Multiplication Methods. 2) Obtain Division by Vedic methods
<p>CourseTitles: Business Mathematics – I Class: B Com. I: Semester: I Title of the Paper (Course code 23MN33113)</p>	<p>Course Outcomes (COs) Upon successful completion of the course, students will be able to</p> <ul style="list-style-type: none"> • Calculate ratio, proportion, variation and percentage. • Calculate and evaluate the profit or loss arising out of business transactions. • Recall and relate the concepts of interest, rate of interest, annuity and instalments. • Acquainted with the various

	concepts related AP, and GP.
CourseTitles: Geometry Class: B Sc. I: Semester: II Title of the Paper (Course code 23MJ33121)	Course Outcomes (COs) The student will be able to 1) To find Intersection of two spheres, intersection of a cone with plane and line. 2) To find equation of enveloping cone and cylinder.
CourseTitles: Differential Equations-I Class: B Sc. I: Semester: II Title of the Paper (Course code 23MJ33122)	Course Outcomes (COs) The student will be able to 1) Choose the appropriate method 2) Choose the proper rule of finding IF 3) Find the CF in all cases
CourseTitles: Calculus of one Variable Class: B Sc. I: Semester: II Title of the Paper (Course code 23MN33121)	Course Outcomes (COs) The student will be able to 1) Learn about derivatives and its application 2) Understand Rolle's Theorem, Lagrange's Mean Value Theorem and Cauchy's Mean Value Theorem.
CourseTitles: Business Mathematics – II Class: B. Com - I: Semester: II Title of the Paper (Course code 23MN33123)	Course Outcomes: Upon successful completion of the course, students will be able: <ul style="list-style-type: none"> • Understand functions of real variables • Get an idea of limit of a function • Acquire knowledge of derivatives and integration to solve business problems. • Create awareness of applications of derivatives and integrations to solve business problems.
CourseTitles: Logical Reasoning (Verbal) Class: B Sc. I: Semester: II Title of the Paper (Course code 23OE33121)	Course Outcomes (COs) The student will be able to 1) <i>Improve Logical Reasoning(Verbal) -I</i> 2) <i>Understand Logical Reasoning(Verbal) -I</i> 3) <i>Enhance Logical Reasoning (Verbal) -II</i>
CourseTitles: Programming in C-I Class: B Sc. I: Semester: II Title of the Paper (Course code 23SE33121)	Course Outcomes (COs) The student will be able to 1) <i>Understand overview of C.</i> 2) <i>Learn Constants, Variables and Data Types.</i>
CourseTitles: Differential Calculus Class: B Sc. II: Semester: III	Course Outcomes (COs) The student will be able to

<p>Title of the Paper (Course code: 24MJ33131)</p>	<p>1) To find the equation of tangent line and normal line and length of tangent, normal, sub-tangent, subnormal at any point of a curve.</p> <p>2) To understand the concept of curvature of a curve.</p>
<p>CourseTitles: Laplace and Fourier Transform Class: B Sc. II: Semester: III Title of the Paper (Course code: 24MJ33133)</p>	<p>Course Outcomes (COs) The student will be able to</p> <ul style="list-style-type: none"> • To memorize and explain definitions, formulas, equations and theorems and learn certain techniques. • To find the Laplace transforms, and inverse Laplace Transform.
<p>CourseTitles: Analytical Solid Geometry Class: B Sc. II: Semester: III Title of the Paper (Course code: 24MN33131)</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • To find out Translations, Rotations, Invariants, and Identification of Conic, Cartesian coordinates Polar Co-ordinates and Conversion formulae. • To understand concept of a plane • To understand concept of line <p>To find out Intersection of a sphere with and a Plane, Tangent Plane, Intersection of two spheres, Sphere through a circle.</p>
<p>CourseTitles: Fundamentals of Discrete Mathematics Class: B Sc. II: Semester: III Title of the Paper (Course code: 24MN33132)</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Draw Venn diagrams, find union, intersection, difference, complement and cardinality of a sets. Understand basic tools of discrete mathematics like Sets. • Use logical operations, find normal forms and apply mathematical induction method to prove the results. • Use Warshall's algorithm to find transitive closure and Idea of Hasse diagram and able to represent the diagram of a poset in more efficient way. <p>Know a function is the central to the study of physics and enumeration.</p>
<p>CourseTitles: Programming in C-II Class: B Sc. II: Semester: III Title of the Paper (Course code: 24SE33131)</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Use of Decision Making, Branching and jumping statements to control the flow of data while writing the C programs. • Write the program making use of different types of loops. • Implement programs with arrays. • Create the user-defined functions and use it in the programs.
<p>CourseTitles: Quantitative Aptitude – II and Logical Reasoning (Non-Verbal) Class: B Sc. II: Semester: III</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p>

<p>Title of the Paper (Course code: 24OE33131)</p>	<ul style="list-style-type: none"> • It will improve verbal ability skill among students. • Students will communicate effectively & appropriately in real life situation. • It will enhance student's problem-solving skill. • Students will be able to prepare for various public and private sector exams & placement drives.
<p>CourseTitles: Mathematics for Common Proficiency Test- I Class: B. Com. II: Semester: III Title of the Paper (Course code: 24MN33134)</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Recognize and apply ratios, proportion, indices and logarithm to solve real-life problems • Solve equations containing First degree polynomial and second-degree polynomial • Derive parallel lines, express into various forms and find the distance between lines. • Determine the solution set for system of linear inequalities by graphical method
<p>CourseTitles: Business Algebra Class: B. Com. II: Semester: III Title of the Paper (Course code: 24MN33135)</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Apply the knowledge of profit, loss, discount, partnership, commissions, rates and taxes etc. in solving business problems. • Find solutions of simultaneous linear equations in two and three variables using algebraic methods • Identify nature of the roots and solving simultaneous quadratic equations • Expand the integer power of $a + b$
<p>CourseTitles: Group Theory Class: B Sc. II: Semester: IV Title of the Paper (Course code: 24MJ33141)</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Identify algebraic structures as groups. • Explain Equivalence, Congruence and Divisibility. • Explain cyclic, normal groups and theorems. • Explain group homomorphism.
<p>CourseTitles: Differential Equation-II Class: B Sc. II: Semester: IV Title of the Paper (Course code: 24MJ33143)</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Solve first order and degree higher than first using various methods and Clairaut's equations. • Solve homogeneous and second order ODE

	<p>by using various types and substitutions.</p> <ul style="list-style-type: none"> • Explain the methods of solving homogeneous (2-types) and second order equation (3-types) and its applications. • Evaluate CF and PI in each case.
<p>CourseTitles: Calculus of Several Variables Class: B Sc. II: Semester: IV Title of the Paper (Course code: 24MN33141)</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Find the limit of a function and check its continuity • Write the partial derivatives of a given function • Do Euler's applications and find the higher order partial derivatives • Evaluate double and triple integrals
<p>CourseTitles: Vector Calculus Class: B Sc. II: Semester: IV Title of the Paper (Course code: 24MN33142)</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Apply concept of Scalar and Vector Product of Vectors • Describe the Differentiation of Vectors • Evaluate Gradient of a scalar point function • Evaluate Divergence and Curl of a vector function
<p>CourseTitles: Algebra with Python Class: B Sc. II: Semester: IV Title of the Paper (Course code: 24SE33141)</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Understand the Matrix Algebra with Python and numpy • Get knowledge of system of linear equations with Python and numpy • Get an idea of complex numbers and Matrices with Python and numpay
<p>CourseTitles: Field Project in Mathematics-I Class: B.Sc. II: Semester: IV Title of the Paper (Course code: 24FP33141)</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • develop their mathematical thinking and problem-solving skills including applications outside of mathematics • develop critical thinking to carry out scientific investigation • Understand, formulate and use quantitative models arising in social science, Business and other contexts.
<p>CourseTitles: Mathematics for Common Proficiency Test-II Class: B.Com. II: Semester: IV Title of the Paper (Course code:</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p>

24MN33144)	<ul style="list-style-type: none"> • Solve counting problems by applying elementary counting techniques using permutations and combinations. • Use the progression types in solving business problems • Use sets to store a collection of linked things • Find the domain and range of a relation and function.
<p>CourseTitles: Business Calculus & Techniques in Operations Research Class: B.Com. II: Semester: IV Title of the Paper (Course code: 24MN33145)</p>	<p>Course Outcomes (COs) Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Find partial derivatives and use it in solving business problems. • Use Euler's theorem in business problems • Know the importance of OR in commerce and its limitations. • Explain the basic concepts of AP and TP and their importance.
<p>CourseTitles: Ring and Linear Algebra Class: B Sc. III: Semester: V Title of the Paper (Course code: 2231531)</p>	<p>Course Outcomes (COs) Upon successful completion of the course, students will be able:</p> <ul style="list-style-type: none"> • Get knowledge of ring, integral domain, sub-ring and field. • Get an idea of homomorphism of ring, ideals and quotient ring.
<p>CourseTitles: Complex Analysis Class: B Sc.III: Semester: V Title of the Paper (Course code: 2231532)</p>	<p>Course Outcomes (COs) Upon successful completion of the course, students will be able:</p> <ul style="list-style-type: none"> • <i>Get an idea of complex differentiation, Necessary and sufficient condition of analytic function, Cauchy-Riemann Equations.</i> • <i>Understand complex integral, Taylor's, Maclaurin's and Laurent's series, Type of Singularities.</i>
<p>CourseTitles: Real Analysis Class: B Sc.III: Semester: V Title of the Paper (Course code: 2231533)</p>	<p>Course Outcomes (COs) Upon successful completion of the course, students will be able:</p> <ul style="list-style-type: none"> • Learn when certain theorems apply and when they do not. • Explain what a definition or theorem says.
CourseTitles: Partial Differential	Course Outcomes (COs)

<p>Equations Class: B Sc.III: Semester: V Title of the Paper (Course code: 2231534)</p>	<p>Upon successful completion of the course, students will be able:</p> <ul style="list-style-type: none"> • Learn formation of PDE and methods to solve first order Partial Differential Equations • Learn linear and non-linear PDEs and their methods of solution.
<p>CourseTitles: Metric Spaces Class: B Sc. III: Semester: VI Title of the Paper (Course code: 2231631)</p>	<p>Course Outcomes (COs) Upon successful completion of the course, students will be able:</p> <ul style="list-style-type: none"> • Equip students with basic mathematical tools such as open & close sets, continuity, completeness, totally boundedness and compactness which can be used to study general topology and real & complex analysis. • Enhance abstract thinking and visualization of students.
<p>CourseTitles: Numerical Analysis Class: B Sc.III: Semester: VI Title of the Paper (Course code: 2231632)</p>	<p>Course Outcomes (COs) Upon successful completion of the course, students will be able:</p> <ul style="list-style-type: none"> • <i>Understand finite differences.</i> • <i>Get knowledge of interpolation.</i>
<p>CourseTitles: Programming in C++ Class: B Sc.III: Semester: VI Title of the Paper (Course code: 2231633)</p>	<p>Course Outcomes (COs) Upon successful completion of the course, students will be able:</p> <ul style="list-style-type: none"> • <i>Describe the procedural and object oriented paradigm with concepts of keywords, identifiers, functions, classes, data and objects.</i> • <i>Describe the concept of Input and Output management.</i>
<p>CourseTitles: Graph Theory Class: B Sc.III: Semester: VI Title of the Paper (Course code: 2231635)</p>	<p>Course Outcomes (COs) Upon successful completion of the course, students will be able:</p> <ul style="list-style-type: none"> • Understand graph- undirected and directed, Types of graphs, Isomorphic graphs. • Get an idea of operations on graphs.

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: BOTANY (NEP 2020) I, II & III

Course Title	Programme Specific Outcomes (PSOs), Course Outcomes (Cos)
B.Sc.	Programme Specific Outcomes (PSOs) 1) Students get basic knowledge about Microorganisms, algae, fungi. 2) Students get basic knowledge about bryophytes, Pteridophyte, Gymnosperms. 3) Students will understand the interaction between plants and their environment to develop the skills necessary for studying and managing plant ecosystem. 4) Students can be able to follow new methodology for plant growth and propagation. 5) Students can prepare pesticides, perfumes, herbal medicines, cosmetics by various plant sources. 6) Students can build up their research carrier in the field of taxonomy of plants. 7) Students will get appropriate knowledge about concepts in biomolecules. 8) Students with necessary skill, knowledge and practical experience will succeed in plant cultivation, landscape design and sustainable agricultural practices. 9) Students will learn how to manage soil in a way than enhances its physical, chemical and biological properties and sustainability to support plant growth while protecting environment. 10) Students will understand the various tissues in plants, their organization and

	<p>function.</p> <p>11) Students will get appropriate knowledge about concepts in enzymology and biochemistry.</p> <p>12) Students will be able to explain how plant convert light energy into chemical energy, how they manage water and nutrient flow and how they regulate growth and development through biochemical mechanism.</p> <p>13) Students will get strong foundation in the principle of genetics to understand the role of genes, chromosomes and mutation in plant development and traits.</p> <p>14) Students will develop proficiency in techniques used to study DNA, RNA and proteins involved in cellular functions, gene expressions.</p> <p>15) Students with knowledge and practical skills to understand, implement and promote sustainable agricultural practices that avoid synthetic chemical and fertilizers and contribute to sustainability, biodiversity and food security.</p> <p>16) Students get knowledge and skills to understand, diagnose and manage plant diseases by pathogens and focusing on the application of this knowledge in agriculture, horticulture and environment.</p>
<p>B.Sc.I Semester I Microbiology & Phycology 23MJ36111</p>	<p>Course Outcomes (COs)</p> <p>1) Students are able to classify different kinds of microbes as per their characters</p> <p>2) Students are able to explain classification and character of different taxa of algae.</p> <p>3) Students can explain general characters of Div. Cynophyceae with the help of example Nostoc.</p> <p>4) Students can explain general characters of Div. Chlorophyceae with the help of example Spirogyra .</p>
<p>B.Sc. I Semester I Fungi & Archegoniate 23MJ36112</p>	<p>Course Outcomes (COs) :</p> <p>1) Student are able to illustrate the character , classification and economic importanceof fungi with the example of Mucor and yeast</p> <p>2) Student are able to distinguish between Bryophyte Pteridophyte and Gymnosperm on the basis of their characters.</p>
<p>B.Sc. I Semester I Ecology & Environment 23MN36111</p>	<p>Course Outcomes (COs) :</p> <p>1) Students get the knowledge about the climatic and edaphic factors of environment.</p> <p>2) Students get the knowledge about the ecological adaptation.</p>

	<p>3) Students get the knowledge about the forms and structure of the communities along with qualitative and quantitative characters.</p> <p>4) Students get the knowledge about introduction components of ecosystem, ecological pyramids with food chain.</p> <p>5) Students get the knowledge about the ecological succession.</p>
<p>B.Sc. I Semester I Plant cultivation & Protection 23OE36111</p>	<p>Course Outcomes (COs) :</p> <p>1) Students get the Knowledge about mechanism of flowering in plants depends upon effect of light and temperature.</p> <p>2) Students will be able to demonstrate the procedure of cutting, layering, budding and grafting.</p> <p>3) students get the Knowledge about cultivation, techniques in organic farming.</p> <p>4) students get the Knowledge about primary identification of diseases and management of diseases, weeds and irrigation system.</p>
<p>B.Sc. I Semester I Medicinal plants 23IK36111</p>	<p>Course Outcomes (COs) :</p> <p>1) Students get the knowledge about past and present history of Medicinal Plants.</p> <p>2) Students get the knowledge about Diversity and health care remedial measure of Medicinal Plants.</p> <p>3) Students can able to explain about importance of Medicinal Plant conservation and to prevent it from becoming extinct.</p> <p>4) Students will get knowledge about primary mandate of National Board organization programs for conservation, cultivation, trade and export of Medicinal plants.</p> <p>5) Students will be able to compare natural source of drug obtained from different plants and their parts.</p>
<p>B.Sc.I Semester II Plant Ecology 23MJ36121</p>	<p>Course Outcomes (COs) :</p> <p>1) Students can understand about climatic and edaphic factors of Environment.</p> <p>2) Students are able to identify diff. adaptation occurred in plants as per environment</p> <p>3) Students able to identify different forms and structure of community.</p> <p>4) Students can understand about the concepts of ecology.</p>

	5) Students can able to explain about hydrosere and xerosere.
B.Sc.I Semester II Taxonomy of Angiosperms. 23MJ36122	Course Outcomes (COs) : 1.Students can understand about importance of taxonomy 2. Students can understand about classification systems in taxonomy. 3. Students can understand different methods of classification and rules of nomenclature. 4. Students can understand technique of herbarium and botanical gardens in India
B.Sc.I Semester II Introduction to Biomolecules 23MN36121	Course Outcomes (COs) : 1) Students will be able to explain Classification, physicochemical properties and biological role of Carbohydrates. 2) Students will be able to explain Classification, physico chemical properties and biological role of Amino Acid. 3) Students able to explain structural organization Protein, denaturation and renaturation mechanism. 4) Students will be able to explain Classification, physicochemical properties and biological role of Lipids. 5) Students will get the knowledge about importance of Nucleic Acid which carry genetic information.
B.Sc.I Semester II Gardening Management 23OE36121	Course Outcomes (COs) : 1) Students can explain nursery and gardening skills. 2) Students will be able to develop seed bank. 3) Students will be able to construct different bonsai. 4) Students can create different commercial flower articles.
B.Sc I Semester II Soil health Management 23SE36121	Course Outcomes (COs) : 1) Students will be able to Classify the soil based composition soil layers. 2) Students will be able to describe physical and chemical properties of different soil. 3) Students will be able to describe biotic and abiotic components of soil along with their interaction. 4) Students will be able to describe importance of vermicomposting in soil health enrichment. 5) Students will be able to elaborate methods for improvement of soil conditions.

<p>B.Sc. II Semester III Plant anatomy 24MJ36131</p>	<p>Course Outcomes (COs) : 1) Students will able to explain the meristematic tissue system of plants with respect to different theories of structural development. 2) Students will able to analyze the difference between primary structure of Monocot and Dicot Root and Stem . 3) Students are able to explain secondary structure of plants with the example of Bignonia and Draceana. 4) Students are able to distinguish between epidermal secretory and mechanical tissue system</p>
<p>B.Sc. II Semester III Plant metabolism 24MJ36133</p>	<p>Course Outcomes (COs) : 1) Students are able basic concepts regarding enzymes and their mechanism of action 2) Students are able to explain nitrogen metabolism. their roll in plants. 3) Students are able to explain the effect of different plant growth regulators on plant growth and development. 4) Students are able to analyze the effect of micronutrients and Macronutrients to the plant growth 5) Students are able to classify carbohydrates with the help of their character and study of examples.</p>
<p>B.Sc. II Semester IV Plant physiology</p>	<p>Course Outcomes (COs) : 1) Students will understand the photo effect on plant mechanism 2) Students will get knowledge about technique in translocation in plants 3) Students will get knowledge about Photosynthesis will help to save the environment 4) Students will get knowledge about Respiration will help to save the environment 5) Detail understanding of role of organic fertilizer will develop interest in organic farming</p>
<p>B.Sc. II Semester IV Embryology of Angiosperms</p>	<p>Course Outcomes (COs) : 1) Students will understand the role and mechanism of flower in the plant production. 2) Understanding of developmental stages of embryo and endosperms will help the students to produce quality food production as well as quality seed production. 3) Knowledge of embryology will help to the students to maintain the plant health.</p>
<p>B.Sc.III Semester V</p>	<p>Course Outcomes (COs) :</p>

Plant Systematics 2231561	1) Students will be able to recall all angiosperm terminology 2) Students can understand about classification systems in taxonomy 3) Students can understand technique of herbarium and botanical gardens in India 4) Students can recall botanical names of local plants 5) Students are able to identify the plants with respect to family according to different class
B.Sc.III Semester V Genetics 2231562	Course Outcomes (COs) : 1) Students can analyse Mendel's law of inheritance. 2) Students will be able to explain process of linkage and crossing over. 3) Students will be able to explain mechanism of sex determination. 4) Students can analyse Polygenic traits and can explain Hardy and Weinberg's law.
B.Sc.III Semester V Molecular biology 2231563	Course Outcomes (COs) : 1) Students will be able to distinguish between different experiments related to discovery 2) Students will be able to compare structure of DNA and RNA 3) Students will be able to explain mechanism of DNA replication in Prokaryotes and Eukaryotes 4) Students can analyse process of transcription and translation in prokaryotes and eukaryotes
B.Sc.III Semester V Economic Botany 2231565	Course Outcomes (COs) : 1) Students can understand the uses of different plants and plant part 2) Students will be able to explain uses of different plant as source of vegetable oil 3) Students will be able to compare natural source of drugs obtained from different plants 4) Student can categorise the plant natural products as per their origin and importance
B.Sc.III Semester VI Organic farming 2231566	Course Outcomes (COs) : 1) Students will be able to understand the concept of organic farming. 2) Students will be able to analyse the general farming and organic farming. 3) Interest about organic farming will increase. 4) Knowledge about organic farming will help to save human as well as
B.Sc.III Semester VI Plant pathology 2231661	Course Outcomes (COs) : 1) Students can identify Plant Diseases as per their characteristics.

	<p>2) Students will be able to compare symptoms of Fungal and Bacterial diseases of plants.</p> <p>3) Students will be able to examine the symptoms of mycoplasma, Bacterial and viral plant diseases.</p> <p>4) Students can identify healthy and high productive seeds by its characters.</p>
<p>B.Sc.III Semester VI Plant biotechnology 2231662</p>	<p>Course Outcomes (COs) :</p> <p>1) Students will be able to explain recombinant DNA technology.</p> <p>2) Students will be able to compare the different methods of gene transfer.</p> <p>3) Students will be able to explain the different methods of gene cloning.</p> <p>4) Students can explain different applications of plant tissue culture.</p>
<p>B.Sc.III Semester VI Cell biology 2231663</p>	<p>Course Outcomes (COs) :</p> <p>1) Students can compare scanning and scanning transmission electron microscopy.</p> <p>2) Students will be able to compare the structure of eukaryotic and prokaryotic cell.</p> <p>3) Students will be able to categorise cell organelles as per their function.</p> <p>4) Students can explain the process of Meiosis and Mitosis.</p>
<p>B.Sc.III Semester VI Nursery gardening and Horticultural practices 2231664</p>	<p>Course Outcomes (COs) :</p> <p>1) Students can explain nursery and gardening skills.</p> <p>2) Students will be able to develop seed bank.</p> <p>3) Students can demonstrate procedure of layering, cutting and grafting.</p> <p>4) Students will be able to construct different bonsai.</p> <p>5) Students can create different commercial flower articles..</p>

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: BBA (NEP2020)

BBA – I Sem - I	
Principles of Management 23MJ22111	Course Outcomes (COs) 1. Discuss the principles of management developed by F.W. Taylor and Henri Fayol 2. Describe the importance of planning and process of organizing. 3. Explain the process of staffing and importance of directing 4. Elaborate the importance of co-ordination and process of controlling 5. Justify the importance of doing business ethically.
Fundamentals of Accounting 23MJ22112	Course Outcomes (COs) : 1. Understand financial transactions and their systematic recording. 2. Get familiarize with various users of accounting information 3. Understand & interpret financial statements for decision-making. 4. Ensure compliance with legal and regulatory requirements. 5. Support decision-making and communicate financial information to stakeholders.
Accounting for Business	Course Outcomes (COs) 1. Prepare final accounts of sole proprietor. 2. Estimate financial results of the business. 3. Reconcile statements. 4. Design a loan proposal to be submitted to the bank for purchasing asset. They themselves will be able to apply for shop act license and Udayam registration.
Organizational Behavior 23SE22111	Course Outcomes (COs) 1. Demonstrate the applicability of the concept of organizational behavior to understand the behavior of people in the organization. 2. Analyze the complexities associated with management of the group behavior in the organization. 3. Understand the importance of organizational behavior in managerial functions.
Micro Economics 23OE05112	Course Outcomes (COs) : 1. Describe the role of business economics in business decision 2. Analyse the consumer behaviour in the market

	<p>3. Examine the relationship between inputs and output</p> <p>4. Relate the concepts of cost and revenue</p> <p>5. Distinguish between how prices are determined under various markets.</p>
<p>English for All – I 23AE01111</p>	<p>Course Outcomes (COs) :</p> <p>1. Use grammatically correct English.</p> <p>2. Communicate effectively</p>
<p>Chanakya’s Philosophies for Management 23IK22111</p>	<p>Course Outcomes (COs) :</p> <p>1. Understand and apply Chanakya's teachings in modern management & Analyze and propose strategies based on Chanakya's principles.</p> <p>2. Evaluate the impact of Chanakya's wisdom on personal and professional success.</p> <p>3. Critically analyze and apply Chanakya's principles in real-world management scenarios.</p>
<p>BBA – I Sem - II</p>	
<p>Basics of Entrepreneurship 23MJ22121</p>	<p>Course Outcomes (COs) :</p> <p>1. State the role of entrepreneurship in economic development of India.</p> <p>2. Summarize challenges faced by women entrepreneurs and family managed business in India</p> <p>3. Elaborate the role of SMEs in Indian economy</p> <p>4. Explain the role of government in entrepreneurial development in India</p> <p>5. Identify the parameters to assess opportunities and constraints for starting a new business. Formulate an outline of business plan</p>
<p>Business Organization and Environment 23MJ22122</p>	<p>Course Outcomes (COs) :</p> <p>1. Describe the economic and social objectives of business. Explain the impact of the industrial revolution and distinguish between the various forms of business organization.</p> <p>2. Elaborate the applications of technology in business. Examine the scope of outsourcing and appreciate its need.</p> <p>3. Brief out an overview about the environment in which the business works</p>
<p>Fundamentals of Computer 23MN39121</p>	<p>Course Outcomes (COs) :</p> <p>1. Demonstrate a comprehensive understanding of computer architecture, including the block diagram and basic units of a computer system.</p> <p>2. Apply knowledge of computer memory, I/O devices, and computer networks for effective data communication and transfer.</p> <p>3. Describe operating systems and their functions.</p> <p>4. Analyze and evaluate the applications of computers in different fields, proposing suitable solutions using computer technologies.</p>
<p>Office Application Tools</p>	<p>Course Outcomes (COs) :</p> <p>1. Create and format content in word document</p> <p>2. Create and manipulate excel spreadsheet</p> <p>3. Manage the cloud-based data and its collaboration.</p> <p>4. Create presentation with graphics and animation effects</p>
<p>Macro Economics 23OE05122</p>	<p>Course Outcomes (COs) :</p> <p>1. Relate the role of External Economic Environment in business decision</p> <p>2. Explain the various concepts of National income</p> <p>3. Analyze the change in value of money</p>

	<p>4. Examine the situation of Inflation and Business cycle</p> <p>5. Relate the International Economic Environment with the current international Economic situation</p>
<p>English for All - II 23AE01121</p>	<p>Course Outcomes (COs) :</p> <p>1. Exhibit their acquaintance with the skills of making Presentations, participating in Group Discussions, facing Personal Interviews</p> <p>2. Write emails, applications for job, Resume, etc.</p>
<p>Leadership Skills 23SE22121</p>	<p>Course Outcomes (COs) :</p> <p>1. Use the concept of SWOT analysis on self and summarize its importance and prioritize individual tasks for effective time management.</p> <p>2. Describe the importance of leadership and various leadership styles.</p> <p>3. Explain techniques of motivation.</p>

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: Computer Science (BCA-I) NEP 2020

Course Title	Programme Specific Outcomes (PSOs), Course Outcomes (Cos)
B.C.A	Programme Specific Outcomes (PSOs)
B.C.A. I Semester I English For All-I (AEC) 23AE01111	Course Outcomes (COs) 1) Students will be able to use grammatically correct English. 2) Student will be able to communicate effectively.
B.C.A. I Semester I Applications Logic Development with C Programming (Major) 23MJ39111	Course Outcomes (COs) : Students will be able to 1. Develop problem solving logic. 2. Understand operators, expressions and pre-processors. 3. Develop conditional statements to write programs in C. 4. Understand the concept of an array, its declaration and uses.
Advanced programming in C (Major) 23MJ39112	Course Outcomes (COs) : Students will be able to 1. Explain dynamic memory allocations techniques. 2. Write & use inbuilt and user defined functions. 3. Exercise the concepts of file handling to manipulate file operations. 4. Use macros in their programs
Office Automation Tools(SEC) 23SE39111	1. It will help to learn computer functionalities from basics to advance. 2. Students would be able to document spread sheets, make small presentations. 3. To develop future managers for offices and software awareness using office automation.

Web Technology(VSC) 23VS39111	<ol style="list-style-type: none"> 1. Students will design and develop web-pages. 2. Students are able to design static web pages by using HTML and CSS.
Foundation of Human Skills (OE) 23OE22111	<ol style="list-style-type: none"> 1. Connect the importance of soft skills in corporate world and appraise the need of practicing soft skills 2. Use the concept of SWOT analysis on self and summarize its importance 3. Recognizing the factors affecting individual behaviour 4. Illustrate importance of emotional intelligence with example 5. Prioritize individuals tasks for effective time management.
Vedic Mathematics 23IK33111	
B.C.A. I Semester II OOPs with C++ -I (Major) 23MJ39121	<p>Students would be able to</p> <ol style="list-style-type: none"> 1. Describe features of object-oriented programming. 2. Implement class, constructor and compile time polymorphism.
OOPs with C++ - II (Major) 23MJ39122	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. Compare between different kinds of inheritance. 2. Implement run time polymorphism. 3. Handle exceptions in C++ program.
Discrete Structure for Computer Science (Minor Core) 23MN38121	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. Apply the concepts of sets, functions, relations to problems in computer science 2. Describe lattices and solve Boolean algebra problems. 3. Enhance their logical skills.
Basics of Management (OE) 23OE22121	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. Explain the Principles of Management. 2. Describe the planning and decision Making Process. 3. Explain the process of Organizing and Authority Delegation. 4. Explain the process of staffing and importance of directing and supervising, 5. Explain the process and techniques of Motivation and controlling.
English For All-II(AECL) 23AE01121	<ol style="list-style-type: none"> 1. Students will be able to exhibit their acquaintance with the skill of making 2. Students will be able to write emails, applications for job ,resume etc.
Linux Operating System (SEC) 23SE39121	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. Understand fundamental concepts of operating system. 2. Use various commands to access Linux operating system. 3. Explain Linux file system.

	2. Create users and groups for this operating system.
JavaScript and jQuery(VSC) 23VS39121	Students will be able to 1. Develop a dynamic webpage by the use of javascript. 2. Write a well-formed / valid XML document.

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Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos)

Name of the Department: Computer Science (BSc ECS-I) NEP 2020

Course Title	Programme Specific Outcomes (PSOs), Course Outcomes (Cos)
B.Sc ECS-I	Programme Specific Outcomes (PSOs)
B.Sc ECS. I Semester I English For All-I (AEC) 23AE01111	Course Outcomes (COs) 1) Students will be able to use grammatically correct English. 2) Student will be able to communicate effectively.
Programming Using C-I (Major) 23MJ38111	Course Outcomes (COs) : On completion of the course, students are able to: 1. Develop the basic C programs. 2. Describe the programming environment of C language. 3. Explain use of operators, expressions and pre-processors. 4. Implement arrays and strings in C programs.
Programming Using C-II (Major) 23MJ38112	Course Outcomes (COs) : On completion of the course, students are able to 1. Apply the concepts of functions, pointers, structures and unions in C language. 2. Implement file handling using C programs.

Mathematics Mathematical Algebra (SEC) 23SE33111	Students completing this course will be able to 1. Express a logic sentence in terms of logical connectives. 2. Develop Practical Knowledge of Mathematics. 3. Evaluate Inverse functions 4. Enhance their logical skills and computational ability
Foundation of Human Skills (OE) 23OE22111	1. Connect the importance of soft skills in corporate world and appraise the need of practicing soft skills 2. Use the concept of SWOT analysis on self and summarize its importance 3. Recognizing the factors affecting individual behaviour 4. Illustrate importance of emotional intelligence with example 5. Prioritize individual's tasks for effective time management.
Vedic Mathematics 23IK33111	
Office Automation(VSC) 23VS38111	1. It will help students to explain computer functionalities from basics to advance 2. Students would be able to document spreadsheets, make small presentations 3. To develop future managers for offices and software awareness using office Automation. 4. Students will create database using MS Access.
B.Sc ECS.-I Semester II Object Oriented Programming –I(Major) 23MJ38121	Students would be able to 1. Describe features of object-oriented programming. 2. Explain Tokens, Expressions and Control Structures in CPP. Implement class, constructors and destructors.
OOPs with C++ - II (Major) 23MJ39122	On completion of this course students will be able to 1. Explore inheritance and polymorphism concepts. 2. Implement file handling mechanism to store data permanently, 3. Handle run time errors during program execution
Basic Electronics (Minor Core) 23MN35121	After successful completion of course student will be able to, 1. Explore fundamental laws and elements of electrical circuits and understand basic terms in Electronics. 2. Explain Basic Circuit components and their applications. 3. Learn basic circuit theorems and analyze circuits by applying theorems. 4. Reduce more complicated circuits into simpler equivalent circuits. 5. Explain AC circuits and related terminologies with examples and Design simple DC and AC circuits and solve numerical problems.
Basics of Management (OE) 23OE22121	Students will be able to 1. Explain the Principles of Management. 2. Describe the planning and decision Making Process. 3. Explain the process of Organizing and Authority Delegation. 4. Explain the process of staffing and importance of directing and supervising, 5. Explain the process and techniques of Motivation and controlling.
English For All-II(AECL) 23AE01121	1. Students will be able to exhibit their acquaintance with the skill of making 2. Students will be able to write emails, applications for job ,resume etc.

<p>Descriptive Statistics (SEC) 23SE34122</p>	<p>Course Outcomes:</p> <p>Students will be able to</p> <ol style="list-style-type: none"> 1. Explain knowledge of Statistics practically. 2. Explain application of statistical tools 3. Study Enhancement of computational ability & Enhancement of logical skills
<p>Web Technology(VSC) 23VS38121</p>	<p>Students will able to</p> <ol style="list-style-type: none"> 1.Understand the basic principles and standards of standard web design 2.Understand how to design websites with different website development models. 3.Know the different page types on websites and it;s navigations. 4.Designing websites using HTML and CSS 5.Develop a dynamic webpage by the use of JavaScript

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Name of the Department: Marathi

PSOs and COs are relevant to the local needs:

By including the stories and poems of local writers like Kavi Kunjvihari, Maruti Chitampalli, Laxminarayan Bolli in the curriculum, the students are getting to know their literary achievements and writings.

PSOs and COs are relevant to the regional needs:

As the rules of attestation are included in the syllabus, bids have to be considered in accordance with the attestation. So it is also helping to think of dialects from a regional consciousness.

PSOs and COs are relevant to the national needs:

Essays based on national integration, justice, equality, fraternity are included in the curriculum, so the students get to know the essential thoughts for becoming a wise citizen and building a nation.

PSOs and COs are relevant to the Global needs:

The stories, poems and essays included in the curriculum are helping the students to get an introduction to world brotherhood and universal thoughts.

Prof. Suhas Pujari
HoD

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Name of the Department: HINDI

PSOs and COs are relevant to the local needs:

- The curriculum includes topics that promote Hindi as a means of communication and cultural preservation within the Solapur region.
- Students are encouraged to analyze local literary contributions, exploring the works of regional writers and poets, thereby fostering community engagement and awareness.
- By integrating local dialectal nuances and cultural themes, the program nurtures a deeper connection to the local linguistic heritage.

PSOs and COs are relevant to the regional needs:

- The study of Hindi literature enhances understanding and appreciation of linguistic diversity across Maharashtra and neighboring states, addressing regional linguistic challenges.
- The department offers insights into how Hindi serves as a bridge language for Kannada and Marathi speakers in the region, fostering cross-cultural harmony.
- Regional themes in the curriculum include socio-economic and cultural topics that resonate with the broader demographic of the area.

PSOs and COs are relevant to the national needs:

- Hindi, being one of the official languages of India, is integral for effective communication in government, media, and academia. The department ensures proficiency in both spoken and written Hindi.

- Nationally recognized Hindi literary works, movements, and authors are emphasized to instill a sense of unity and national pride.
- The program equips students for careers in public administration, education, translation, and journalism, addressing the demand for skilled professionals fluent in Hindi.

PSOs and COs are relevant to the Global needs:

- With the growing diaspora of Hindi speakers worldwide, the program prepares students to engage with global communities, promoting Hindi as a language of international communication and culture.
- The curriculum explores Hindi's influence on world literature, film, and media, fostering global cultural exchange.
- By integrating technology and translation tools, students are equipped to contribute to the digital and globalized use of Hindi in academic, professional, and creative contexts.

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Name of the Department: Geography

Class: B.A.I

SEM- I

Major I- Geomorphology- I

- **Local Needs (Solapur District):** Understanding the landforms and soil types in Solapur district to help address soil erosion, drought management, and better agricultural practices.
- **Regional Needs (Maharashtra):** Studying the physical features of Maharashtra, such as the Deccan Plateau and Western Ghats, to support regional land use planning and resource management.
- **National Needs (India):** Contributing to national efforts in planning infrastructure, disaster management, and sustainable land use across India's varied landscapes.
- **Global Needs:** Providing insights into global studies on landforms, climate change impacts, and natural hazard management.

Major II- Human Geography

- **Local Needs (Solapur District):** Understanding the population distribution and cultural practices of Solapur to improve local development and services.
- **Regional Needs (Maharashtra):** Analyzing migration, urbanization, and population trends in Maharashtra to guide regional development policies.
- **National Needs (India):** Supporting national policies on population growth, urbanization, and migration through a deeper understanding of India's diverse demographic landscape.

- **Global Needs:** Contributing to global studies on population changes, migration, and development issues.

Minor- Rural Settlement Geography

- **Local Needs (Solapur District):** Examining rural settlement patterns in Solapur to improve infrastructure, irrigation, and local economic conditions.
- **Regional Needs (Maharashtra):** Understanding rural settlements in Maharashtra to support policies related to rural development, land reform, and connectivity.
- **National Needs (India):** Helping to address national concerns about rural poverty, agricultural challenges, and migration by studying settlement patterns across India.
- **Global Needs:** Contributing to global discussions on rural development, sustainable agriculture, and migration from rural to urban areas.

IKS-Bharatvarsh: A Land of Rare Endowment

- **Local Needs (Solapur District):** Promoting the cultural and natural heritage of Solapur to support tourism and preserve local traditions.
- **Regional Needs (Maharashtra):** Highlighting Maharashtra's rich natural and cultural resources for regional development and conservation efforts.
- **National Needs (India):** Fostering national policies that make use of India's unique natural and cultural wealth for sustainable growth.
- **Global Needs:** Contributing to global knowledge on biodiversity conservation and heritage preservation.

OE-Physical Geography of Maharashtra

- **Local Needs (Solapur District):** Studying the geography of Solapur to address issues like drought, soil degradation, and agricultural challenges.
- **Regional Needs (Maharashtra):** Understanding Maharashtra's physical features, including rivers, mountains, and coastal areas, to plan for infrastructure and resource management.
- **National Needs (India):** Supporting national resource management and infrastructure development by studying diverse geographic regions of India, including Maharashtra.
- **Global Needs:** Contributing to global discussions on climate resilience and sustainable development.

SEM- II

Major I - Climatology

- **Local Needs (Solapur District):** Understanding local climate patterns, such as droughts, to improve agriculture and water management in Solapur.
- **Regional Needs (Maharashtra):** Studying the climate of Maharashtra, including monsoon patterns, to support agriculture, water management, and disaster planning.
- **National Needs (India):** Contributing to national climate policies by studying climate variability and related challenges like monsoon changes and disaster management.
- **Global Needs:** Participating in global climate research, including efforts to mitigate climate change and improve weather forecasting.

Minor-Urban Geography

- **Local Needs (Solapur District):** Improving urban planning in Solapur to address infrastructure needs and support sustainable development.
- **Regional Needs (Maharashtra):** Studying urban growth in Maharashtra's cities to help with infrastructure planning and housing policies.
- **National Needs (India):** Contributing to national urban policies by supporting sustainable urbanization, housing, and smart city initiatives.
- **Global Needs:** Participating in global studies on urbanization and sustainable city development.

OE- Economic and Demographic Geography of Maharashtra

- **Local Needs (Solapur District):** Understanding Solapur's economic and demographic trends to improve local planning and create job opportunities.
- **Regional Needs (Maharashtra):** Studying Maharashtra's economy and population to guide regional policies on resource management and industrial development.
- **National Needs (India):** Contributing to national economic and demographic policies by studying Maharashtra's role as a major economic center in India.
- **Global Needs:** Engaging in global discussions on economic trends and population growth, contributing to international research on migration and resource management.

SEC: Introduction to Tourism

- **Local Needs (Solapur District):** Promoting tourism in Solapur by developing local cultural and natural attractions to boost the economy.

- **Regional Needs (Maharashtra):** Enhancing tourism in Maharashtra by promoting popular destinations such as Ajanta-Ellora and the Konkan coast.
- **National Needs (India):** Supporting India's national tourism policies by promoting diverse attractions and sustainable tourism practices.
- **Global Needs:** Contributing to global tourism development by sharing best practices in sustainable tourism and cultural heritage preservation.

B.Sc. I

SEM I

Minor Fundamental Geomorphology

- **Local Needs (Solapur District):** Understanding the landforms and soil types in Solapur district to help address soil erosion, drought management, and better agricultural practices.
- **Regional Needs (Maharashtra):** Studying the physical features of Maharashtra, such as the Deccan Plateau and Western Ghats, to support regional land use planning and resource management.
- **National Needs (India):** Contributing to national efforts in planning infrastructure, disaster management, and sustainable land use across India's varied landscapes.
- **Global Needs:** Providing insights into global studies on landforms, climate change impacts, and natural hazard management.

SEM- II

Minor - Fundamental Climatology

- **Local Needs (Solapur District):** Understanding local climate patterns, such as droughts, to improve agriculture and water management in Solapur.
- **Regional Needs (Maharashtra):** Studying the climate of Maharashtra, including monsoon patterns, to support agriculture, water management, and disaster planning.
- **National Needs (India):** Contributing to national climate policies by studying climate variability and related challenges like monsoon changes and disaster management.
- **Global Needs:** Participating in global climate research, including efforts to mitigate climate change and improve weather forecasting.

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Name of the Department: Geography

Class: M.A.I

SEM I

Geomorphology- I

Local:

Solapur district belongs to Maharashtra state. Geographically it is located on Deccan trap. Geologically the deccan trap is made from basaltic rock which is derived from Basaltic lava flow during Cretaceous period. The study of different types of rocks will help our students to understand igneous rocks, sedimentary and metamorphic rocks found in the district. The study of geomorphology will help students to understand the geomorphological condition of Solapur district. Solapur comes under Zone III category of earthquake, therefore the study of interior of earth structure will help to understand causes of the existing geomorphological structures of Solapur and geological activities going on earth surface due to earth's internal forces like earthquakes, plate movements etc. Erosion is the greatest problem in Solapur district. It is mainly due to aeolian and fluvial. The average wind speed in Solapur district is 3.9 m/s and predominantly flowing from west, this causes aeolian erosion. The course content will help students to understand the nature of aeolian erosion, preventive practices of erosion and schedule the agricultural activities accordingly. The average rainfall in the district is 488.8 mm which is unequally distributed temporally and spatially in the district. The course will help to understand the concept of fluvial and aeolian erosion and the various factors influencing the erosion.

Regional Level:

Maharashtra has a remarkable physical homogeneity, enforced by its underlying geology. The dominant physical trait of the state is its plateau character. Maharashtra is a part of Deccan plateau the geology of the state is overall similar however, physiographically it is not similar

everywhere. Its western upturned rims rising to form the Sahyadri Range and its slopes gently descending towards the east and southeast. The students may get introduced the basic knowledge about the surface of the state. The students to understand the concept of weathering, rock, landforms and their characteristics. Physiographically the is divided into three parts such as Konkan, western hill and Maharashtra plateau. In every region the characteristics are different each other. The students get knowledge about endogenic and endogenic forces, rocks, geomorphic process and landforms in Maharashtra state

National:

Indian Institute of Geomorphologists (IGI) is the national platform exclusively dedicated to the research and development in the field of geomorphology in India. The geomorphic diversity is displayed by a fascinating array of landforms produced by a variety of geomorphic processes; fluvial, coastal, aeolian, glacial, karst and mass movement as well as fluvio-glacial, fluvio-aeolian and fluvio-marine. Some of the special and unique landforms of the subcontinent include the massive mountain system of the Himalaya, the oversized Brahmaputra River, the megafans of the Kosi and the Gandak Rivers, the high, unbroken great escarpment of the Western Ghat, and the delta-studded coastline of the east coast of India. Rocks of virtually every geological period occur in some or the other part of the country and the lofty Himalayan ranges provide the most compelling evidence of plate tectonics and continental drift. The resultant geomorphic diversity of the subcontinent has dictated the course of human history of the region since and prior to the advent of Harappa civilization. The course will help to understand the concept of geomorphology, geomorphic Processes

Global:

Landform evolution is an important aspect of earth sciences and involves complicated interaction among different physical processes and environmental factors, such as underlying rock structures, tectonics, rock types, climate and climatic changes, and human activities, all occurring over a wide range of spatial and temporal scales. Student can Compare the evolution of Landforms throughout the world. In the field of representation of relief methods in the world it include hachure, hill shading, layer tints, benchmarks and spot heights and contours. However, contours and spot heights are predominantly used to depict the relief of an area on all topographical maps. Contours are imaginary lines joining places having the same elevation

above mean sea level. The course will help to understand worldwide methods of relief representation.

Climatology- I

Local:

Solapur is blessed with a moderate and decent climate. Solapur district falls under the category of dry (arid and semiarid) climate according to the koppen climate classification. In an average the climate of the district is dry and comparatively extreme. As the region comes under rain shadow area, rainfall throughout the year is scanty and its distribution both spatial and temporal is not uniform. The study of different elements of climate will help our students to understand temperature, rainfall, air pressure, humidity, wind, cloud, precipitation, condensation, evaporation, in the district. As well as the student known the three seasons like summer, monsoon and winter. Agro-climatically, Solapur district comes under the rain shadow area, therefore the study of temperature and rainfall will help to understand the causes of rain shadow area. Students learn the interaction between the atmosphere and surface in the district. In short, the study of climatology will help students to understand the climatic condition of Solapur district.

Regional:

Maharashtra has typical monsoon climate, with hot, rainy and cold weather seasons. Tropical conditions prevail all over the state and even the hill stations are not that cold. Dew, frost, hail can also be happened sometimes according to the seasonal weather. The study of different elements of climate will help our students to understand. The students get to know about the events that change with time such as storms, clouds, rain, lightning etc. due to the interrelationship of air temperature, atmospheric pressure, wind speed and direction in the state.

National:

India is a very diversified country. The Indian peninsula has a huge variety of climates within various states within it. India mostly has the climate of a tropical country. India's northern part is situated in the temperate belt. During the summer season due to the sun's position the region experiences a dry climate like that of the equatorial regions. The plains in the northern region of India are influenced by the hot wind called 'loo' from Thar and Iranian deserts. This makes the temperatures comparable to the southern part of India. Students will demonstrate

knowledge of the climate of India. As well as, student will recognize the significance of climate for understanding socio- economic progress of country. Students assess the impacts of climate change on human and natural systems and to develop suitable adaptation and mitigation strategies at the national level

Global:

In climatology is the study of the atmosphere and weather patterns over time on the earth. This field of science focuses on recording and analysing weather patterns throughout the world and understanding the atmospheric conditions that cause them. It is sometimes confused with meteorology, which is the study of weather and weather forecasting. However, climatology is mainly focused on the natural and artificial forces that influence long-term weather patterns. As well as in this syllabus is study to insulation and temperature, elements of weather and climate, atmospheric composition and structure, atmospheric pressure and winds, Climatic Regions of Koppen and Triwartha. Students known the climate of world and how it changes over time. The climatology helps students better understand the atmospheric conditions that cause weather patterns and temperature changes over time. Finally, the study of climatology allows students to observe atmospheric phenomena and make predictions about the near and distant future climate

Economic Geography

Local:

In the fourth semester majority of the course deals with economic geography. Economy of Solapur district is quite developed where its industries are concerned. It is situated at an important junction of the North-south railway line and is consequently a good place for industries to be set up. There are a number of medium and small scale and medium industries found in the district, and it is one of the prime centres of the Handloom and Power loom industry, cotton mills and the beedi industry. Solapur is well known for the bed sheets produced here, and has a reputation for the same. Textiles therefore figure in a big way in the economy of the district. In the agricultural field, the district has a well-established market in oilseeds. The major crops grown in the district include jowar, wheat and sugarcane. The course will also help to understand the students with economic activities like Agriculture, Manufacturing, Transport, Trade and Services in Solapur district.

Regional:

Maharashtra occupies a prominent place in the country's economy. Mumbai, the commercial capital of the country, has the presence of all the leading industrial / corporate houses of the country. The state is the major producer of oilseeds, groundnut, sunflower, soya bean etc. The state also produces cash crops like cotton, sugarcane, turmeric and vegetables. The state also has a vast area under horticulture cultivation. Inequality in terms of economic welfare and production levels is a common phenomenon in the state of Maharashtra. To address such disparities, the curriculum is used to mobilize resources, solve problems and mobilize resources. It helps to understand the factors and distribution of localization of industry in the state of Maharashtra

National:

Economic Geography serves the purpose of identifying the influence that the environment exerts on man through the preservation of the multiple geo-economic conditions of different parts of the world. Any attempt that aims at the balanced development of economy could not succeed without the complete understanding of the man-environment inter-relationship without any such knowledge economic relationship is bound to end up in a fiasco. It is a fait accompli. Economic Geography, therefore, serves as an essential tool for reducing and finally eliminating world societies' disparity gaps by scientific study of their economic resources, modern needs and cultural heritages

Global:

The study of economic geography is important for students to serve as an essential tool for reducing the disparity gap in the global society and to overcome it through the scientific study of their economic resources, modern needs and cultural heritage. Economic geography gives students the knowledge of how the natural, human and cultural environment is related to the economic lifestyle of man. The study of economic geography can prepare students for careers around business and management.

SEM II**Geomorphology- II****Local:**

Solapur district belongs to Maharashtra state. Geographically it is located on Deccan trap. Geologically the deccan trap is made from basaltic rock which is derived from Basaltic lava flow

during Cretaceous period. The study of different types of rocks will help our students to understand igneous rocks, sedimentary and metamorphic rocks found in the district. The study of geomorphology will help students to understand the geomorphological condition of Solapur district. Solapur comes under Zone III category of earthquake, therefore the study of interior of earth structure will help to understand causes of the existing geomorphological structures of Solapur and geological activities going on earth surface due to earth's internal forces like earthquakes, plate movements etc. Erosion is the greatest problem in Solapur district. It is mainly due to aeolian and fluvial. The average wind speed in Solapur district is 3.9 m/s and predominantly flowing from west, this causes aeolian erosion. The course content will help students to understand the nature of aeolian erosion, preventive practices of erosion and schedule the agricultural activities accordingly. The average rainfall in the district is 488.8 mm which is unequally distributed temporally and spatially in the district. The course will help to understand the concept of fluvial and aeolian erosion and the various factors influencing the erosion.

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National:

Indian Institute of Geomorphologists (IGI) is the national platform exclusively dedicated to the research and development in the field of geomorphology in India. The geomorphic diversity is displayed by a fascinating array of landforms produced by a variety of geomorphic processes; fluvial, coastal, aeolian, glacial, karst and mass movement as well as fluvio-glacial, fluvio-aeolian and fluvio-marine. Some of the special and unique landforms of the subcontinent include the massive mountain system of the Himalaya, the oversized Brahmaputra River, the,

megafans of the Kosi and the Gandak Rivers, the high, unbroken great escarpment of the Western Ghat, and the delta-studded coastline of the east coast of India. Rocks of virtually every geological period occur in some or the other part of the country and the lofty Himalayan ranges provide the most compelling evidence of plate tectonics and continental drift. The resultant geomorphic diversity of the subcontinent has dictated the course of human history of the region since and prior to the advent of Harappa civilization. The course will help to understand the concept of geomorphology, geomorphic Processes

Global:

Landform evolution is an important aspect of earth sciences and involves complicated interaction among different physical processes and environmental factors, such as underlying rock structures, tectonics, rock types, climate and climatic changes, and human activities, all occurring over a wide range of spatial and temporal scales. Student can Compare the evolution of Landforms throughout the world. In the field of representation of relief methods in the world it include hachure, hill shading, layer tints, benchmarks and spot heights and contours. However, contours and spot heights are predominantly used to depict the relief of an area on all topographical maps. Contours are imaginary lines joining places having the same elevation above mean sea level. The course will help to understand worldwide methods of relief representation.

ClimatologyII

Local:

Climatology is important since it helps determine future climate expectations. Studying climatological statistics and local and regional topography around a given location can provide important insights about the historical bounds of weather variables and how the weather "behaves" in various weather patterns.

Regional:

Understanding climate patterns: Climatology helps geographers to understand the patterns of climate and weather in different parts of the world. This is important for predicting and preparing for natural various disaster of various regions.

National:

Climatologists seek to understand three main aspects of climate. The first aspect is the weather patterns that govern normal conditions in different nations throughout the world. Secondly, climate scientists try to understand the relationship between different aspects of weather such as temperature and sunlight. The third aspect of climate that climatologists investigate is the way that weather changes over time. Results from this type of research have shown that human activities are affecting Earth's overall climate, such as with increased global temperatures.

International

Climatology is a key field of study in geography because climate plays a fundamental role in shaping the physical and human characteristics of the Earth's surface. Climatology involves the study of long-term weather patterns, atmospheric conditions, and climate variability, and it helps geographers to understand the distribution and characteristics of different climatic regions around the world.

Population Geography**Local:**

Population geography plays an important role in the understanding of economic geography as people are the main component of the economy contributing from every possible sector. As per census 2011 Solapur district is ranked 11th in Maharashtra state. The study of Introduction to Population Geography will help our students to understand importance of population. Solapur district population growth rate over the decade 2001-2011 was 12.1% therefore the study of growth of population will help our student to understand the factors which is affecting on population growth. The distribution of population is uneven in the Solapur district caused by drought regions. Birth rate is one of the most important factors which affecting growth of population in any region. During 2010-2011 periods, it substantially declined and became as low as 20.58. the study of Fertility and Mortality will help our students to understand birth rate and death rate of Solapur district. Sex ratio is an important social indicator as it gives the measure of 'equal number of females' and 'males in society' at a given period in time. Solapur has a sex ratio of 932 females for every 1000 males, and a literacy rate of 77.72%. This course will help our student to understand Population Composition and Characteristics and various factors affection the population composition.

Regional:

Maharashtra is a state in the western region of India. It is the third-largest state by area and the second-largest state by population. As per of Census India, the population of Maharashtra in 2011 is 112, 374,333 (11.23 Crore) & the estimated population of Maharashtra in 2022 is 125,411,000 (12.54 Crore). Population distribution in Maharashtra state is uneven due to uneven physical structure. Western Maharashtra is a leading region in terms of agriculture and Industries hence this region has dense population. On the other hand, Marathwada and other parts are drought-prone, so there is no development of agriculture here which effecting on the migration According to census 2011, Sex ratio of Maharashtra is higher than national average. The study of ratio will help our students to understand population dynamics. Out of the total population of Maharashtra 45.22% people lived in urban regions while 54.78% in rural areas. This course will help our student to understand Population Composition and Characteristics of Maharashtra.

National:

As per Census of India in 2011, Population of India is 1.21 billion. India, with 2.4% of the world's surface area, accounts for 17.5% of its population. The study of demography is of immense importance to an economy. Population studies help us to know how far the growth rate of the economy is keeping pace with the growth rate of population. Growth of population is one of the major problems of the world. India showed a decadal growth rate of 17.64 % for the entire population as compared to 21.15 % in Census 2001. Malthus Theory and Demographic Transition Theory will help our student to understand the different phase of population growth of any country and factor affection on the population growth. Sex ratio is most important social indicator which gives the idea of female number as compare to male number in the society. The sex ratio in India is decent and improving year by year. As per census 2011 sex ration of India is 940 females/1000 males. Uttar Pradesh has the highest share of out-migrants while Maharashtra has the highest share of in-migrants because of lake of employment opportunity, Marriage, Education facility etc.

Global:

World population has reached 8 billion people on November 15, 2022 according to the United Nations. It is estimate that world population to reach 10 billion in the year 2058. Population distribution is uneven in the world. Some countries have under population. the

country's economy suffers because it lacks a workforce and consumer base. On the other hand, many developing countries have over population. These countries may face innumerable problems of basic services like water, electricity, transport and communications, public health, education, etc. Along with these, problems of migration and urbanization are associated with the growing population which further lead to the law-and-order problem. Malthus Theory and Demographic Transition Theory will help our students to understand the different phases of different country. There are an estimated 272 million international migrants which is 3.5% of the world's population. Most people leave their home countries for work, millions have been driven away due to conflict, violence and climate change. Most migrants come from India; the United States is the primary destination. This course will help our student to understand Population Dynamics of the world.

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Name of the Department: Sociology

PSOs and COs are relevant to the local needs:

- *Understand and follow human values*
- *Contribute to national development*

PSOs and Cos are relevant to the regional needs:

- *Be a responsible and dutiful citizen*
- *Be aware of research about social and culture reality in society*

PSOs and COs are relevant to the national needs:

- *Have knowledge about society and its issues*
- *Have an interest in social work*

PSOs and COs are relevant to the Global needs:

- *Nurture innovative and creativity in a fine arts and life.*
- *Have communication skills and social interaction*
- *Respect the cultural heritage of pluralism and mutual respect.*

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Name of the Department: COMMERCE

PSOs and COs are relevant to the local, regional, national, and global needs:

Yes, Programme Outcomes (POs) and Course Outcomes (COs) are relevant to local, regional, national, and global developmental needs. These outcomes reflect the relevance of the curricula developed and implemented by an institution.

Course Name	Focus				Description
	Local	Regional	National	Global	
Basics of Accounting & Financial Accounting	√	√	√		Basic accounting principles for creating and presenting financial statements in accordance with Indian Accounting Standards are covered in the course. Globally, the fundamental ideas are applicable regardless of geographic borders.
Basics of Cost Accounting	√	√	√		The goal of this course is to improve students' understanding of basic cost accounting principles.
Indian Banking System	√	√	√		This course covers the history of banking as well as basic banking principles, types, and functions. The syllabus that has been included to teach students about the Indian banking system also includes the banking recommendations, DRT, and Lok Adalat. In order to give the students a comprehensive understanding of the Indian banking system, recent developments have also been incorporated into the curriculum.
Retail Banking	√	√	√		The foundations of retail banking, its increasing national

					importance, and the difficulties encountered are the main topics of this course. Additionally, this course marks the transition from traditional banking to online banking. Therefore, this course has been adopted with the goal of educating the students about electronic banking efforts and their importance.
Principles of Business Mgt.	√	√	√	√	Management principles can be applied at any level of a business organization. The course emphasizes the concepts, ideas, and processes that are broadly relevant and essential for managerial analysis and decision-making.
Organizational Behaviour	√				This course focuses on how managers may establish good work environments and decent work for everyone in accordance with employment goals by having a thorough awareness of the factors that influence both individual and group behaviour.
Fundamentals of Marketing	√	√	√	√	Concepts of marketing management and components of the marketing mix are applicable globally and at all levels. For this reason, the students have been introduced to this course as an introductory course.
Marketing for Beginners	√				The department has added this subject to its list of open electives for students from other faculties. It helps students become familiar with and accustomed to marketing and marketing concepts by covering the foundations of marketing.
Retail Marketing			√	√	Since the retail sector is liberalized, it has been extremely competitive and dynamic. Having

					a solid understanding of the Indian and global retail environments aids in developing sustainable patterns of production and consumption.
Advanced Accountancy	√	√	√		To comprehend the conceptual basis of the preparation and presentation of company financial statements using the application of accounting principles to various real-world scenarios in accordance with Indian Accounting Standards.
Advanced Costing	√	√	√		The significance of cost analysis and management, activity-based management, process costing and cost allocation, planning and decision-making, and performance evaluation and management will all be covered in this course.
Business Models & Start ups	√	√	√	√	The goal of the course "Business Models and Start Ups" is to provide a thorough grasp of the steps involved in building Indian startups. The business model that operates at both the national and international levels will also be covered in this course.

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Name of the Department: Chemistry

PSOs and COs are relevant to the local needs:

PSOs and Cos are in complete agreement with the local needs. Advanced points related to polymers, inorganic reaction mechanism, retro-synthesis, spectroscopic techniques, are desperately added so that students can be trained perfectly to grab any local industrial opportunity.

PSOs and COs are relevant to the regional needs:

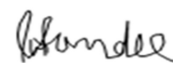
PSOs and COs are also in accordance to regional needs. It mainly includes awareness about environmental pollution. Students can analyze water quality in terms of Hardness. The added points will be helpful in organic farming, preparation of synthetic dyes, drugs, and industrially important compounds.

PSOs and COs are relevant to the national needs:

In order to highlight importance of advanced techniques such as separation techniques, spectroscopic techniques, Bio-inorganic, fertilizers etc. having National importance the related topics are added to our curriculum. The PSOs and COs will help students to acquire a position as chemist in Research and Development, Quality Control units of various companies. The number of students going for higher education is less. Our PSOs and COs will definitely aid in climbing this number.

PSOs and COs are relevant to the Global needs:

Our curriculum and its PSOs and COs are completely related to core theory and advanced practical based skills which is currently a global challenge. We believe that this will help students to succeed for gaining a job not only at National but also at global level in various chemical and pharmaceutical companies. Students can go abroad for their higher education studies.



HoD

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Name of the Department: Botany

PSOs and COs are relevant to the local needs:

- 1) Students apply knowledge of local flora to solve environmental challenges.
- 2) Students develop strategies for conservation and sustainable management of plant resources.
- 3) Students understand pest management and organic farming practices in local climate.
- 4) Students get knowledge about preserve traditional knowledge of plants used for food, medicine and cultural purposes.

PSOs and COs are relevant to the regional needs:

- 1) Students use regional plant biodiversity to solve local challenges in agriculture, medicine and resource management.
- 2) Students contribute to regional conservation programmes and policy making
- 3) Students analyses the role of plants in climate change and maintaining ecological balance.
- 4) Students can engage cross cultural and interdisciplinary research collaboration.

PSOs and COs are relevant to the national needs:

- 1) Students conduct impactful research in plant science, focusing on innovations in biotechnology, pharmacology and environmental conservation.
- 2) Students can get expertise in plant tissue culture, genetic engineering and phytochemical analysis for pharmaceutical and industrial application.
- 3) Students mastered the techniques for identifying, classifying and analyzing plants with the focus on global and local significance
- 4) Students focus on indigenous plant species, local agricultural practices and community driven conservation initiatives.

PSOs and COs are relevant to the Global needs:

- 1) Students will understand the interaction between plants and their environment to develop the skills necessary for studying and managing plant ecosystem.

- 2) Students apply botanical knowledge to address international challenges like food security, climate change and biodiversity loss.
- 3) Students work with communities to implement botanical solutions for improving health, livelihoods and education.
- 4) Students stay updated with advancements in botany and related disciplines to adapt to changing global and regional needs.

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Curricula relevance to the local, national, regional and global developmental needs

Name of the Department: Mathematics

Class: B. Sc I, II, &III

Curricula relevance to the local needs

1. Algebra
2. Calculus
3. Geometry
4. Differential Equations-I

Curricula relevance to the regional needs

1. Differential Calculus
2. Laplace and Fourier Transform
3. Group
4. Differential Equations

Curricula relevance to the national needs

1. Numerical Analysis
2. Real Analysis
3. Partial Differential Equations
4. Graph Theory
5. Complex Analysis

Curricula relevance to the global needs

1. Metric spaces
2. Integral Calculus
3. Programming in C++
4. Abstract and Modern Algebra
5. Linear algebra and Ring

HOD Signature

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2) Students apply botanical knowledge to address international challenges like food security, climate change and biodiversity loss.

3) Students work with communities to implement botanical solutions for improving health, livelihoods and education.

4) Students stay updated with advancements in botany and related disciplines to adapt to changing global and regional needs.

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Name of the Department: Computer Science

BCA-I

PSOs and COs are relevant to the local needs:

PSOs can include objectives such as improving the problem-solving and analytical skills of students, which are crucial for addressing real-world challenges faced by local businesses and communities. The syllabus covers Basic programming languages like C, C programming and Web Technologies and Java Script and it will help Students to develop the software and web sites for local business, shops, colleges, schools, industries and other local commercial fields.

If the local area has a focus on innovation or startup culture, The subject Fundamentals of human skill might encourage entrepreneurial thinking, which can lead to local job creation and support for local tech startups.

PSOs and COs are relevant to the regional needs:

Local Industry Focus: If the region has a booming IT industry or a specific sector such as agriculture, healthcare, or education, the course like office Automation can be designed to emphasize the use of technology relevant to that sector. For example, if the region has many healthcare providers,

Addressing Local Challenges: In areas with challenges like rural development, the subject like included in the syllabus might develop technologies that assist with agriculture, infrastructure, and education. Students might learn to create websites that provide services to remote areas or technologies that help in improving the quality of life for underserved communities.

Regional Programming Languages and Tools: Certain regions may have preferences for particular programming languages or technologies. For example, if the region is known for having a high demand for specific web development frameworks Web technology and java script focus on teaching students those technologies. Local government or large businesses may also need region-specific solutions, like software for managing local utilities or local service providers.

PSOs and COs are relevant to the national needs:

software solutions that align with national priorities in sectors like healthcare, education, and government, utilizing emerging technologies such as for adopting paperless work office automation subject in syllabus will train students to do paper less work

PSOs and COs are relevant to the Global needs:

Programming and Software Development: As programming skills are foundational to many national initiatives in digitalization, COs in programming and software development courses should focus on ensuring proficiency in widely used languages such as JavaScript and frameworks. This will prepare students to contribute to the country's growing demand for skilled software developers.

Tech for Sustainability: If the country has national sustainability goals, courses could focus on developing technology solutions that promote environmental conservation, such as apps for tracking carbon footprints, energy-efficient systems, or software that supports sustainable agriculture.

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Name of the Department: Computer Science

BSc ECS-I

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If the local area has a focus on innovation or startup culture, The subject Fundamentals of human skill might encourage entrepreneurial thinking, which can lead to local job creation and support for local tech startups.

PSOs and COs are relevant to the regional needs:

Students will be able to develop system-level applications using C and C++, including embedded systems for smart devices, real-time systems for national security, and performance-critical applications for healthcare and manufacturing.

In HTML students will be able to create responsive web pages using HTML and ensure accessibility and compatibility, contributing to the national goal of digital inclusion and widespread e-governance."

Electronics in Students will design and implement embedded systems using microcontrollers to support IoT applications in areas such as healthcare, agriculture, and smart cities, contributing to the national push for digital transformation."

In Human Skills Students will improve communication, teamwork, and leadership abilities through collaborative projects and presentations, ensuring they are prepared for professional roles in multidisciplinary tech teams."

In Mathematical Algebra Students will use algebraic methods to solve complex computational problems and optimize algorithms, contributing to the development of efficient software systems for sectors such as finance, logistics, and healthcare."

PSOs and COs are relevant to the national needs:

Software solutions that align with national priorities in sectors like healthcare, education, and government, utilizing emerging technologies such as for adopting paperless work office automation subject in syllabus will train students to do paper less work

PSOs and COs are relevant to the Global needs:

Programming Proficiency: Students should be proficient in C and C++, able to design and implement high-performance and embedded applications that meet global standards in industries like gaming, healthcare, and telecommunications.

Students will be able to develop efficient and scalable system-level applications using C, focusing on high-performance and real-time systems."

Students will be able to apply object-oriented programming principles in C++ to build modular, reusable, and efficient software for applications in fields such as gaming, automation, and IoT."