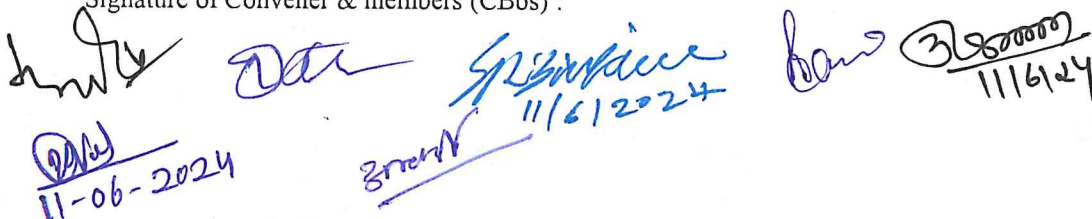


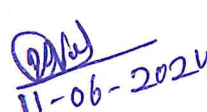

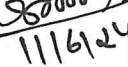
FOUR YEAR UNDERGRADUATE PROGRAM - (2024-28)
DEPARTMENT OF HINDI
COURSE CURRICULUM

PART -A : Introduction			
Program: Bachelor in Arts Certificate/Diploma/Degree/Honors		Semester - II	
		Session: 2024-25	
1	Course Code	HNSC-02	
2	Course Title	हिन्दी साहित्य का इतिहास – आधुनिक काल	
3	Course Type	DSC	
4	Pre-requisite (if any)	As per requirement	
5	Course Learning Outcome (CLO)	1. युगीन परिस्थितियों और साहित्यिक प्रवृत्तियों के आधार पर विद्यार्थी पुनर्जागरण काल एवं जागरण सुधार काल के प्रमुख रचनाकारों की उपादेयता को गहनता से समझ सकेंगे। 2. हिन्दी पद्य के साथ गद्य के क्रमबद्ध विकास को समझ सकेंगे। 3. छायावाद एवं छायावादोत्तर काव्य के माध्यम से तत्कालीन स्वतंत्रता आंदोलन की पृष्ठ भूमि से विद्यार्थी अवगत होंगे। 4. स्वातंत्र्योत्तर पद्य और गद्य की विभिन्न विधाओं के माध्यम से विद्यार्थी बदलते हुए सामाजिक-सांस्कृतिक मूल्यों को समझने में सक्षम हो सकेंगे। 5. भूमण्डलीकरण के दौर में युगीन हिन्दी साहित्य को विश्व साहित्य के समानान्तर रख कर मूल्यांकनपरक दृष्टि एवं समझ का विकास हो सकेगा।	
6	Credit Value	4 Credits	(01 Credit = 15 Hours - learning & Observation)
7	Total Marks	Maximum Marks : 100	Minimum Passing Marks : 40

PART -B : Content of the Course		
Total No. of Teaching-Learning Periods (01 Hr. Per Period) - 60 Periods (60 Hours)		
Unit	Topics (Course Contents)	No. of Period
I	आधुनिक काल व हिन्दी नवजागरण – भातेन्दु युग अ. आधुनिक काल की राजनैतिक, सामाजिक, आर्थिक एवं सांस्कृतिक पृष्ठभूमि, हिन्दी नवजागरण ब. भारतेन्दु युग – प्रमुख साहित्यकार, साहित्य एवं साहित्यिक विशेषताएं	15
II	द्विवेदी युग व छायावाद अ. द्विवेदी युग के प्रमुख साहित्यकार, साहित्य एवं विशेषताएं ब. छायावाद के प्रमुख साहित्यकार, साहित्य एवं विशेषताएं	15
III	छायावादोत्तर काल (विभिन्न प्रवृत्तियों) अ. प्रगतिवाद व प्रयोगवाद के प्रमुख साहित्यकार, साहित्य एवं विशेषताएं ब. नई कविता व समकालीन कविता के प्रमुख साहित्यकार, साहित्य एवं विशेषताएं	15
IV	हिन्दी गद्य का विकास अ. कहानी एवं उपन्यास का उद्भव एवं विकास, सामान्य प्रवृत्तियां व प्रमुख कथाकार, उपन्यासकार ब. निबंध एवं नाटक का उद्भव एवं विकास, सामान्य प्रवृत्तियां व प्रमुख निबंधकार तथा नाटककार	15
Keywords		

Signature of Convener & members (CBos) :



PART -C : Learning Resource		
Text Books, Reference Books and Others		
1. महावीर प्रसाद द्विवेदी और हिन्दी नवजागरण – डॉ. रामविलास शर्मा, राजकमल प्रकाशन, नई दिल्ली 2. भारतेन्दु हरिश्चंद्र और हिन्दी नवजागरण – डॉ. रामविलास शर्मा, राजकमल प्रकाशन, नई दिल्ली 3. छायावाद की प्रासंगिकता – रमेशचन्द्र शाह, वाग्देवी प्रकाशन बिकानेर 4. नवजागरण की समस्याएं – डॉ. रामविलास शर्मा, राजकमल प्रकाशन, नई दिल्ली 5. भारतेन्दु की रंग परिकल्पना – सत्येन्द्र तनेजा 6. छायावादोत्तर प्रतिनिधि कवि और उनकी कविताएं – विश्वविद्यालय प्रकाशन वाराणसी 7. हिन्दी गद्य का विकास – भारतेन्दु हरिश्चंद्र 8. आधुनिक हिन्दी गद्य का इतिहास – आचार्य रामचन्द्र शुक्ल, राजकमल प्रकाशन, नई दिल्ली 9. भारतेन्दु युग – डॉ. सत्यपाल शर्मा 10. हिन्दी नाटक उदभव और विकास – दशरथ ओझा, राजपाल प्रकाशन 11. आधुनिक साहित्य की प्रवृत्तियां – नामवर सिंह, राजकमल प्रकाशन, दिल्ली		
Online Resources -		
1. E-Adhyayan 2. https://epustakalay.com.book 3. info@hindibook.com		
PART -D : Assessment And Evaluation		
Suggested Continuous Evaluation Methods : Maximum Marks : 100 Marks Continuous Internal Assessment (CIA) : 30 Marks End Semester Exam (ESE) : 70 Marks		
Coninuous Internal Assessment : (CIA) :	Internal Test/Quiz-(2) : 20 &	Better marks out of the two
End Semester Exam (ESE) :		Two Section - A&B

Name and Signature of Convener & Members of CBoS:



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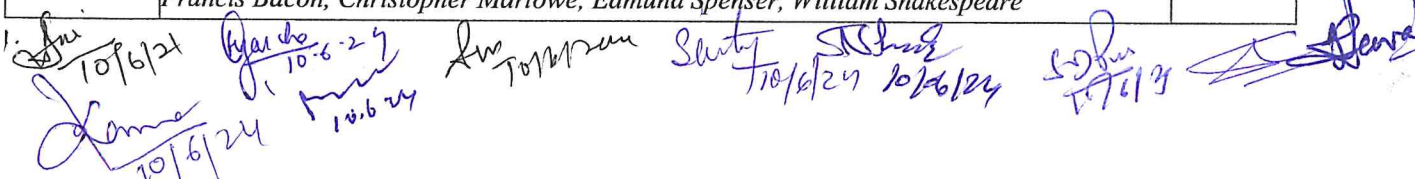
FOUR YEAR UNDERGRADUATE PROGRAM (2024 - 28)
DEPARTMENT OF English
COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Arts (Certificate/Diploma/Degree/Honors)		Semester - II	Session: 2024-2025
1	Course Code	ENSC-02	
2	Course Title	History of English Literature	
3	Course Type	DSC (Discipline Specific Course)	
4	Pre-requisite	As per Program	
5	Course Learning Outcomes (CLO)	<p>After completion of this course, the students will be able to:</p> <ul style="list-style-type: none"> ➤ Be aware of the characteristics of the various ages of English Literature. ➤ Understand different factors responsible for the literary developments that have taken place over the centuries in English Literature. ➤ Understand the development of English literature through historical Timeline. ➤ Comprehend the defining ethos and characteristics of different periods in English Literature. ➤ Develop a comprehensive understanding of the history of English Literature. ➤ Take cognizance of the historical, social and cultural context of each literary age and thereby make connections between literature and society & appreciate literature's ability to stimulate feeling. 	
6	Credit Value	4 Credits	Credit = 15 Hours - learning & Observation
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40

PART -B: Content of the Course

Total No. of Teaching-learning Periods (01 Hr. per period) – 60 Periods (60 Hours)

Unit	Topics (Course contents)	No. of Periods
I	<p>Age of Chaucer: (1350-1400): Section A: a) Salient Features: Hundred Years War, The Black Death, Religious Writings, Ballad Writing Prominent Author: Geoffery Chaucer Section B: (any one) a) Geoffrey Chaucer: The Knight, The Pardoner (from The Prologue to The Canterbury Tales)</p> <p>Renaissance: (1516-1625): Section A: a) Salient Features: Intellectual Rebirth, Freedom of thought & action, Thirst for knowledge, Love for Adventure and unlimited power, University wits, Elizabethan Lyric and Sonnets, b) Prominent Authors: Francis Bacon, Christopher Marlowe, Edmund Spenser, William Shakespeare</p>	15



PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:		
Maximum Marks:	100 Marks	
Continuous Internal Assessment (CIA):	30 Marks	
End Semester Exam (ESE):	70 Marks	
Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 20 & 20 Assignment / Seminar - 10 Total Marks - 30	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 30 Marks
End Semester Exam (ESE):	Two section – A & B Section A: Q1. Objective – 10 x1= 10 Mark; Q2. Short answer type- 5x4 =20 Marks Section B: Descriptive answer type qts., 1 out of 2 from each unit- 4x10=40 Marks	

Name and Signature of Convener & Members of CBoS:

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**FOUR YEAR UNDERGRADUATE PROGRAM(2024-28)
DEPARTMENT OF SOCIOLOGY COURSE CURRICULUM**




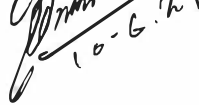




PART-A : INTRODUCTION		
PROGRAM: Bachelor in Arts (Certificate/ Diploma/Degree/Honors)		SEMESTER-II
SESSION:2024-25		
SUBJECT: SOCIOLOGY		
1	COURSE CODE:	SOSC-02
2	COURSE TITLE:	CHANGING SOCIAL INSTITUTIONS IN INDIA
3	COURSE TYPE:	DSC
4	Pre-requisite	As per Government norms
5	COURSE LEARNING OUTCOME (CLO):	<p>After completion of the course, the student will be able to achieve the following objectives-</p> <ul style="list-style-type: none"> • The students will learn and understand the classical background of Indian society. • Students will learn about the Indian social structure. • The course will enhance understanding about pre dominant issues of Indian society. • This course will enhance the understanding about rural structure, development and issues. • The students will learn about social problems of India.
6	CREDIT VALUE:	04(Credit= 15 Hour- Learning and observation)
7	TOTAL MARKS:	MAX MARKS:100
		MIN PASS MARKS:40

PART-B : CONTENT OF THE COURSE

Total Number of Teaching-Learning Periods(01 hr. Per Period)- 60 Period (60 Hours)

UNIT	TOPICS	No. of Periods
UNIT-I Classical Indian: Society and Changes	<ol style="list-style-type: none"> 1. Classical Indian Society and Changes 2. Ashram, Purusharth 3. Karma: Views on Past and Present 4. Caste Roles and Varna Formulations 	15
UNIT-II Indian Social Structure	<ol style="list-style-type: none"> 1. Family Roles and its Changing Nature 2. Marriage and its Challenges 3. Kinship: Principle and Pattern 4. Jajmani and Agrarian Relationship 	15
UNIT-III Rural Social System	<ol style="list-style-type: none"> 1. Rural Development and Change 2. Rural Migration and Urbanisation 3. Religiosity and superstition in rural society 4. Problem of Peasants 	15
UNIT-IV Social Issues in India	<ol style="list-style-type: none"> 1. Poverty and Unemployment : Causes and Remedies 2. Problem of Corruption: Causes and Remedies 3. Drugs Abuse: Types, Causes and Remedies 4. Cyber Crime: Types, Causes and Remedies 	15


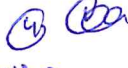






Signature of Convener & Members :

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PART-C : LEARNING RESOURCES ,REFERENCE BOOKS& OTHERS		
AUTHOR	TITLE	PUBLISHER
TEXTBOOK		
C.N.Shankar Rao	Indian Social Problems	S Chand
Ram Ahuja	Social Problems in India	Rawat Publication
C.N.Shankar Rao	Sociology of Indian Society	S Chand Publication
REFERENCES		
Rajendra Kumar Sharma	Indian Society: Institutions and Change	Atlantic Publication
B.R.Chauhan	Indian Villages	Rawat Publication
Indra Dewa	Society and Culture in India	Rawat Publucation
Online Resources		
1	https://epgp.inflibnet.ac.in	
2	https://vidyamidra.inflibnet.ac.in	
3	https://vidyamidra.inflibnet.ac.in/index.php/search	
4	https://www.swayamprabha.gov.in	

PART-D:ASSESSMENT AND EVALUATION		
Suggested Continuous Evaluation Methods:		
Maximum Marks:		
	100 Marks	Continuous
Continuous Internal Assessment (CIA):	30 Marks	
End Semester Exam (ESE):	70 Marks	
Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test/Quiz-(2): 20 & 20 Assignment/Seminar- 10 Total Marks- 30	Better marks out of the two Test/Quiz +obtained marks in Assignments shall be considered against 30 Marks
End Semester Exam (ESE):	Two section - A & B Section A: Q1. Objective - 10 x 1 = 10 Marks; Q2. Short answer type - 5 x 4 = 20 Marks Section B: Descriptive answer type qts., 1 out of 2 from each unit - 4 x 10 = 40 Marks	

Name and Signature of Convener & Members of CBoS

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For 4
CreditsFour-year undergraduate course; 2024 - 28
Department of Political Science Course Curriculum

PART A INTRODUCTION			
PROGRAM : Bachelor in social science Certificate/Diploma/Degree/ Honors		SEMESTER II	Session 2024-25
1	Course code	PSSC 02	
2	Course Title	Constitutional Government in India	
3	Course Type	DSC : Discipline specific course	
4	Prerequisite(if,any)	As per Program	
5	Course Learning Outcomes (CLO)	After completion of the course, the student shall be able to.. <ul style="list-style-type: none"> • Construct the political ideals mentioned in the preamble of the constitution. • Assess the provisions of citizenship, fundamental rights and duties and their correlation . • Examine the role of president and the functioning of union executive . • Interpret the provisions and functioning of the union legislature and constitutional bodies of functional democracy, like election commission, finance commission and C&AG. 	
6	Credit Value	4 credits	Credit = 15 Hours - learning & Observation and 30 Hrs for Practices/ Field work
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART B - Content of the Course			
Total No. of Teaching-Learning Periods (01 Hr. per period) 60 Period (60 Hours)			
UNIT	Topics (Course Content)		No. of Periods
I	Constitution Citizenship and Rights Making of Indian Constitution : Cabinet mission plan and Constituent assembly. Preamble, features, Sources. Schedules, citizenship. Fundamental Rights and Duties, Directive Principles of State Policy. Constitution Amendment Process		15
II	Union President, Vice President, Council of Ministers and Prime Minister. Federal Parliament Lok Sabha and Rajya Sabha. Supreme court - Organization Functions, Powers, Judicial Review.		15
III	Union and Federal administration controller and auditor general .Centre State Relations: Legislative, Financial, Administrative. Union and state public service commission, Election Commission, Finance Commission.		15
IV	State and Local self government Legislature, Executive: Governor, Council of Ministers and Chief Minister. State High Court - Organization , Functions, Rights.		15
Keywords : Act, assembly, constitution, president, parliament, judiciary, panchayati raj.			

Name and Signature of Convener & Members of BOS:

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2) *[Signature]* 10.06.24

3) *[Signature]* 10/06/24

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PART C		Learning Resources: Text Books, Reference Books and Others	
Text Books Recommended			
1- आर.सी अग्रवाल (1985) : राष्ट्रीय आंदोलन एवं संवैधानिक विकास , एस चन्द एण्ड कम्पनी , नई दिल्ली ।			
2- डीडी बसु भारत (1986) : भारतीय संविधान एक परिचय, प्रेन्टिस हाल, नई दिल्ली । .			
3- एम सत्य राय (1983) : भारत मे राष्ट्रवाद, हिंदी माध्यम कार्यान्वयन निदेशालय दिल्ली विश्वविद्यालय।			
4- सुभाष कश्यप (1996) : हमारा संविधान, नेशनल बुक ट्रस्ट नई दिल्ली			
5- राकेश डेढगर्वे (2018) : भारतीय शासन और राजनीति - छ.ग. राज्य हिन्दी ग्रन्थ अकादमी . रायपुर ।			
Reference books			
6- Bipan Chandra (2000): India after Independence, Penguin Books, New Delhi.			
7- Bipan Chandra, M. Mukherjee and A.Mukherjee (2007) : India Since Independence, Penguin Books New Delhi.			
8- D D Basu (2015) Introduction to the Constitution of India, Lexisnexis, Gurgaon.			
9- Subhash C. Kashyap, (1989) Our Parliament, National Book Trust India, New Delhi.			
10- Subhash C. Kashyap, (1994) Our Constitution—An Introduction to India's Constitution and Constitutional Law, National Book Trust India, New Delhi.			
11- W.H. Morris-Jones, (1989) The Government and Politics of India, Universal Book Stall,.			
12- Granville Austin (1999) Indian Constitution: CornerStone of a Nation, Oxford University Press New Delhi			
13- Granville Austin (2004) Working a Democratic Constitution: A History of the Indian Experience Oxford University Press, New Delhi.			
14- M.V. Pylee (1995) An Introduction to the Constitution of India, Vikas Publishing House, New Delhi.			
e-books			
संवैधानिक विकास			
https://egyankosh.ac.in/bitstream/123456789/19930/1/Unit-23.pdf			
भारतीय संविधान			
https://code.mp.gov.in/WriteReadData/Pdf/Act_1950_0000_Pdf_F897_Hindi.pdf			
भारतीय संविधान			
https://egyankosh.ac.in/handle/123456789/58295			
भारतीय संविधान			
https://legislative.gov.in/hi/%E0%A4%AD%E0%A4%BE%E0%A4%B0%E0%A4%A4-%E0%A4%95%E0%A4%BE-%E0%A4%B8%E0%A4%82%E0%A4%B5%E0%A4%BF%E0%A4			
e-learning portals			
Indian constitution , CEC			
https://youtu.be/of2SoO8i8mM?si=B1N2z6bIkrHboauq		https://youtu.be/e18xmGhdsOg?si=8RS9FouShQLrybBJ	
https://youtu.be/VK7ZwVE96ue?si=mqE2dygeuRHKq9qc			
PART -D: Assessment and Evaluation			
Suggested Continuous Evaluation Methods:			
Maximum Marks:		100 Marks	
Continuous Internal Assessment (CIA):		30 Marks	
End Semester Exam (ESE):		70 Marks	
Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 20 & 20 Assignment / Seminar - 10 Total Marks - 30	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 30 Marks	
End Semester Exam (ESE):	Two section – A & B Section A: Q1. Objective – 10 x1= 10 Mark; Q2. Short answer type- 5x4 =20 Marks Section B: Descriptive answer type qts., 1 out of 2 from each unit-4 x 10=40 Marks		

Name and Signature of Convener & Members of BOS:

① *Dr. S. K. Singh* - *10/06/2024*

② *Dr. Anand Kumar* - *10-06-24*

③ *Dr. M. D. Singh* - *10-06-24*

④ *Dr. Anand Kumar* - *10/06/24*

⑤ *Dr. Anand Kumar* - *10/06/24*

⑥ *Dr. Anand Kumar* - *10/06/24*

⑦ *Dr. Anand Kumar* - *10/06/24*

⑧ *Dr. Anand Kumar* - *10/06/24*

⑨ *Dr. Anand Kumar* - *10/06/24*

⑩ *Dr. Anand Kumar* - *10/06/24*

For 4
Credits

Four-year undergraduate course; 2024 - 28

**FOUR YEAR UNDERGRADUATE PROGRAM
DEPARTMENT OF ECONOMICS
COURSE CURRICULUM – 2024-28**

PART-A, INTRODUCTION			
PROGRAM: Bachelor in Art (Certificate/Diploma/Degree/H onors)	Sem -II	SESSION:2024-2025	
SUBJECT: ECONOMICS			
1	COURSE CODE:	ECSC-02	
2	COURSE TITLE:	BASICS OF INDIAN ECONOMY	
3	COURSE TYPE:	DSC	
4	Pre-requisite	As per program	
5	COURSE LEARNING OUTCOME (CLO):	<ul style="list-style-type: none"> The students learn about the state of Indian economy pre and post-independence. The students learn about the planning process and its achievements in Indian economy. The students come across with the new economic reforms introduced in Indian economy in the year 1991 and its role in India's development. The students will come to know about some social problems like overpopulation, education, health & malnutrition, poverty, unemployment etc. The students learn the problems and prospects of agriculture sector in India. The students learn various aspects of industrial development and reforms process in the industrial economy. The students learn the role of foreign trade on Indian economy. They will also learn various aspects of foreign trade in India. The students learn the state income of Chhattisgarh in the form of GSDP, Per capita income, sectorial contribution etc. The students also learn about the importance of agriculture in Chhattisgarh's economy. The students learn about various crops their production and productivity. The students learn about various industries and infrastructure facilities in Chhattisgarh. 	
6	CREDIT VALUE:	4 Credits	Credit= 15 Hours- Learning and observation
7	TOTAL MARKS:	Max Marks:100	Min Passing Marks:40
PART-B, CONTENT OF THE COURSE			
Total No. of Teaching-Learning Periods (01Hr per period) -60 Periods (60 Hours)			
UNIT	TOPICS (Course Contents)	No of Periods	
UNIT I- AN INTRODUCTION TO INDIAN ECONOMY	1. INDIAN ECONOMY AT THE TIME OF INDEPENDENCE 2. POST INDEPENDENCE INDIAN ECONOMY	15	

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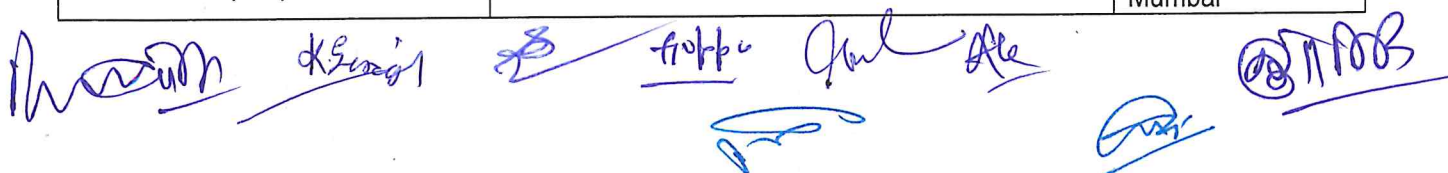
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	<ol style="list-style-type: none"> 3. DEVELOPMENT THROUGH FIVE YEAR PLANS 4. NITI AAYOG 5. NEW ECONOMIC REFORMS 	
UNIT II- DEMOGRAPHY	<ol style="list-style-type: none"> 1. DEMOGRAPHIC TRENDS OF INDIA 2. ISSUES OF EDUCATION, HEALTH, MALNUTRITION AND MIGRATION. 3. POVERTY AND INEQUALITY 4. UNEMPLOYMENT & OCCUPATIONAL DISTRIBUTION 	15
UNIT III- AGRICULTURE	<ol style="list-style-type: none"> 1. NATURE & IMPORTANCE OF AGRICULTURE 2. AGRICULTURE PRODUCTION & PRODUCTIVITY 3. MAJOR PROBLEMS IN INDIAN AGRICULTURE 4. LAND USE PATTERN & LAND REFORMS 5. NEW AGRICULTURE STRATEGIES & GREEN REVOLUTION 	15
UNIT IV- INDUSTRY & FOREIGN TRADE	<ol style="list-style-type: none"> 1. INDUSTRIAL GROWTH & PRODUCTIVITY 2. INDUSTRIAL POLICY & ECONOMIC REFORMS 3. MICRO, SMALL & MEDIUM INDUSTRIES (MSME) 4. PROBLEMS OF SMALL SCALE INDUSTRIES 5. PUBLIC ENTERPRISES IN INDIA 6. ROLE OF FOREIGN TRADE IN INDIA'S DEVELOPMENT 	15

Signature of Convener & Members CBoS:-

PART-C, LEARNING RESOURCES ,Reference Books& others

AUTHOR	TITLE	PUBLISHER
Uma Kapila	India Economy: Performance & Policies	Academic Foundation
Datt, Ruddar & K.P.M. Sundharam	Indian Economy	S. Chand & Co. new Delhi
Mishra & Puri	Indian Economy	Himalaya Publishing House
Govt. of India	Economic Survey (Various Issues)	Govt. of India
Brahmanand, P.R. & V.R. Panchmukhi (Eds)	The development process of the Indian Economy	Himalaya Publishing, Mumbai



मिश्रा एवं पुरी	भारतीय अर्थव्यवस्था	हिमालया पब्लिशिंग हाउस
अग्रवाल, ए. एन.	भारतीय अर्थव्यवस्था	न्यू ऐज इंटरनेशनल पब्लिशर्स
मिश्र, जे. पी.	भारतीय अर्थव्यवस्था	साहित्य भवन पब्लिकेशन, आगरा
छत्तीसगढ़ सरकार	आर्थिक सर्वेक्षण	आर्थिक एवं सांख्यिकीय संचालनालय, रायपुर
Uma Kapila	India Economy: Performance & Policies	Academic Foundation

Online Resources

1	https://epgp.inflibnet.ac.in
2	https://vidyamidra.inflibnet.ac.in
3	https://vidyamidra.inflibnet.ac.in/index.php/search
4	https://www.swayamprabha.gov.in
5	https://www.rbi.org.in/
6	http://descg.gov.in
7	https://www.indiabudget.gov.in/economicsurvey/
8	https://www.cso.ie/en/index.html

PART-D ASSESSMENT & EVALUATION

Suggested Continuous Evaluation Methods:

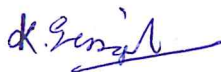
Maximum Marks	:100 Marks
Continuous Internal Assessment (CIA)	: 30 Marks,
End Semester Exams (ESE)	:70 marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Tests/Quiz-(2) : 20 & 20 Assignment/Seminar/Attendance - 10 Total Marks - 30	Better marks out of the two Test /Quiz +Obtained marks in Assignment shall be considered against 30 Marks
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End Semester Exams (ESE) :	Two Section – A & B Section A: Q 1- Objective- 10x1=10 Marks Q 2-Short answer type- 5x4=20 Marks Section B: Descriptive answer type questions, 1 out of 2 from each unit - 4x10=40 Marks
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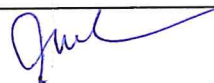
Signature of Convener & Members CBoS:-















चार वर्षीय स्नातक पाठ्यक्रम (2024-28)

अर्थशास्त्र विभाग

कोर्स करिकुलम

खंड - अ : परिचय			
पाठ्यक्रम : बैचलर इन आर्ट्स (सर्टिफिकेट / डिप्लोमा / डिग्री / आनर्स / आनर्स सह रिसर्च)		सेमेस्टर - II	सत्र - 2024-2025
1	कोर्स कूट	ECSC - 02	
2	कोर्स शीर्षक	भारतीय अर्थव्यवस्था की सामान्य जानकारी	
3	कोर्स प्रकार	DSC	
4	पूर्व अपेक्षित (यदि हो)	आवश्यकता अनुरूप	
5	कोर्स लर्निंग आउटकम (CLO)	<ul style="list-style-type: none"> छात्र आजादी से पहले और आजादी के बाद भारतीय अर्थव्यवस्था की स्थिति के बारे में सीखते हैं। छात्र भारतीय अर्थव्यवस्था में योजना प्रक्रिया और इसकी उपलब्धियों के बारे में सीखते हैं। छात्र वर्ष 1991 में भारतीय अर्थव्यवस्था में शुरू किए गए नए आर्थिक सुधारों और भारत के विकास में इसकी भूमिका से परिचित हुए। छात्रों को कुछ सामाजिक समस्याओं जैसे अधिक जनसंख्या, शिक्षा, स्वास्थ्य और कुपोषण, गरीबी, बेरोजगारी आदि के बारे में पता चलेगा। छात्र भारत में कृषि क्षेत्र की समस्याओं और संभावनाओं को सीखते हैं। छात्र औद्योगिक विकास और औद्योगिक अर्थव्यवस्था में सुधार प्रक्रिया के विभिन्न पहलुओं को सीखते हैं। छात्र भारतीय अर्थव्यवस्था पर विदेशी व्यापार की भूमिका सीखते हैं। वे भारत में विदेशी व्यापार के विभिन्न पहलुओं को भी सीखेंगे। छात्र जीएसडीपी, प्रति व्यक्ति आय, क्षेत्रीय योगदान आदि के रूप में छत्तीसगढ़ की राज्य आय सीखते हैं। छात्र छत्तीसगढ़ की अर्थव्यवस्था में कृषि के महत्व के बारे में भी सीखते हैं। छात्र विभिन्न फसलों, उनके उत्पादन और उत्पादकता के बारे में सीखते हैं। छात्र छत्तीसगढ़ में विभिन्न उद्योगों और बुनियादी सुविधाओं के बारे में सीखते हैं। 	
6	क्रेडिट महत्व	4 क्रेडिट	क्रेडिट = 15 घंटे का अध्ययन / प्रशिक्षण/ प्रवेक्षण
7	कुल अंक	पूर्णांक - 100	उत्तीर्णांक - 40

खंड - ब : कोर्स की विषयवस्तु

कुल अध्यापन कालखंड (01घंटा प्रति काल खंड) - 60 कालखंड (60 घंटे)

इकाई	प्रसंग (विषय वस्तु)	कालखंड की संख्या
I - भारतीय अर्थव्यवस्था का परिचय	<ol style="list-style-type: none"> स्वतंत्रता के समय भारतीय अर्थव्यवस्था स्वतंत्रता के बाद की भारतीय अर्थव्यवस्था पंचवर्षीय योजनाओं के माध्यम से विकास नीति आयोग नए आर्थिक सुधार 	15
II - जनांकिकी	<ol style="list-style-type: none"> भारत की जनसांख्यिकीय प्रवृत्तियाँ शिक्षा, स्वास्थ्य, कुपोषण और प्रवासन के मुद्दे 	15

Handwritten signatures and marks at the bottom of the page, including names like 'D. Gupta', 'S. K. Singh', and 'A. K. Singh'.

FOUR YEAR UNDERGRADUATE PROGRAM(2024 - 28)
DEPARTMENT OF GEOGRAPHY
COURSE CURRICULUM

PART-A: Introduction			
Program: Bachelor in Arts (Certificate / Diploma / Degree/Honors)		Semester - II	Session: 2024-2025
1	Course Code	GOSC – 02 T	
2	Course Title	Fundamental of Human Geography	
3	Course Type	DSC	
4	Pre-requisite(if, any)	As per the program	
5	Course Learning Outcomes(CLO)	At the end of this course the student will e have an ability to 1- Gain knowledge about major themes of human Geography. 2- Acquire knowledge on the history and evolution of humans. 3- Understand the approaches and processes of Human Geography as well as the diverse patterns of habitat and adaptations. 4- Ability to develop an idea about space and society 5- Understand the evolution of varied types of economic activities. 6- Assess the varied aspects of development and regional disparity, in order to formulate measures of balanced development and sustainable development.	
6	Credit Value	3 Credits	Credit = 15 Hours -learning & Observation
7	Total Marks	Max. Marks: 100	Min Passing Marks:40

PART -B: Content of the Course

Total No. of Teaching-learning Periods(01 Hr. per period) - 45 Periods (45 Hours)		
Unit	Topics (Course contents)	No. of Period
I	Introduction to Human Geography Definition, nature and scope. Fundamental concept in Human Geography . Understanding of man- nature relationship:- Determinism, Possibilism and Neo-determinism. Classification of Human Occupation	12
II	Population and Settlement - Growth of population, distribution and density of the world. Socio- economic Pattern of Population – Literacy, Migration:- Causes, and types .Occupational Structure. Theory and Model of population growth:-Concept of Optimum Population, Over Population and Under population.	10
III	Human Settlement and Races- Types and characteristics of human settlement- Rural settlement and Urban Settlement. Human Races- Basis of Racial Classification, world distribution. Habitat and economy of selected communities (Gond, Eskimo, Bushmen).	12
IV	Geography and Development- Indicators and measures of Regional development ,. Global pattern of development:- inter-regional variations, HDI. Concept of Sustainable Development.	11
Keywords	Determinism, Possibilism, Occupational Structure. Optimum Population, Racial	

Signature of Convener, Members of CBoS :

Dr. B. K. Thakur
 M-S. SAHU
 Dr. C. P. KANDU

③
 ⑥
 ⑦
 ⑧
 ⑨

10. Dr. S. Yadav
 11. Dr. Chandra Shekhar
 12.
 13. Dr. Sophia Ambrade - Doria

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

- 10- James, M. Robenstein, *An Introduction to Human Geography*, Prentice Hall, New Jersey, 2001
- 11- Michael, Can, *New Patterns: Process and Change in Human Geography* Nelson, 1997
- 12- Hussain Mazid- *Human Geography*, (Hindi & English Both) Rawat Publication Jaipur
- 13- Garg H.S. *Manav Bhoogol*, SBPD Publication, Agra.
- 14- Haroon Mohammad, *Manav Bhoogol*, Wisdom Publication
- 15- Kausik S.D. *Manav avam Arthik Bhoogol*, Rastogi publication Meerut.
- 16- Maurya, S.D. *Manav Bhoogol*, Sharda Pustak Bhavan, Prayagraj.2009
- 17- Khullar, D. R. *Human Geography*, (In Hindi) Kalyani Publishers, Ludhiyana, 2016
- 18- Prasad, Gayatri, *Cultural Geography*, (In Hindi) Sharda Pustak Bhavan . Prayagraj.

Reference books:

- 5- Bergwan, Edward E., *Human Geography: Culture. Connections and Landscape*, Prentice Hall, New Jersey. 1995
- 6- Carr, M., *Patterns, Process and change in Human Geography*, MacMillan Education, London, 1987.
- 7- Daniels Peter, Bradshaw Michael, Shaw Devil and Side way James, *Human Geography: Issues for the Twenty First Century*, Prentice Hall, New Jersey, 2001
- 8- Clarke, J I , *Population Geography of Developing Country*, Pergamon press ,Oxford, 1971

E-Books

- <https://web.ung.edu/media/university-press/human-geography.pdf>
- <https://www.drishtiiias.com/hindi/images/pdf/NCERT-Hindi-Class-12-Geography-Part-1.pdf>
- <http://assets.vmou.ac.in/GE05.pdf>-Human Geography
- <https://open.umn.edu/opentextbooks/textbooks/870>

OnlineResources–(e-Resources/e-books and e-learning portals)

- www.ignou.ac.in
- www.egyankosh.ac.in
- www.iitm.ac.in
- www.eskillindia.org
- www.eshiksha.mp.gov.in
- www.vlab.co.in
- www.swayam.ac.in
- www.internshala.com

PART-D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks

Continuous Internal Assessment(CIA):30 Marks

End Semester Exam (ESE):70 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 20 +20 Assignment/Seminar- 10 Total Marks -30	Better marks out of the two Test / Quiz+ obtained marks in Assignment shall be considered against 30 Marks
End Semester Exam (ESE):	Two section – A & B Section A: Q1. Objective – 10 x1= 10 Mark; Q2. Short answer type- 5x4 =20Marks Section B: Descriptive answer type qts., 1out of 2 from each unit-4x10=40Marks	

Signature of Convener, Members of CBoS :

1) Dr. S. S. ...
 2) ...
 3) ...
 4) ...
 5) ...
 6) ...
 7) ...
 8) ...
 9) ...
 10) ...

10/06/23
 Dr. Sophie Ambale - Sophie

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
DEPARTMENT OF GEOGRAPHY
COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Arts <i>(Certificate / Diploma / Degree/ Honors)</i>		Semester -II	Session: 2024-2025
1	Course Code	GOSC – 02 P	
2	Course Title	Practical 2 - Scale and Representation of Relief	
3	Course Type	Practical	
4	Pre-requisite (if, any)	<i>As per program</i>	
5	Course Learning Outcomes (CLO)	At the end of the this course the student will be able to 1- Understand and prepare different kinds of Scales and comprehend the concept of scales . 2- Identify the features of the land form through counters 3- Developed the Relief Map Making skills. 4- Gain in-depth knowledge on Drawing of Contour Features.	
6	Credit Value	1 Credits	<i>Credit =30 Hours Laboratory or Field learning/Training</i>
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20

PART -B: Content of the Course		
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)		
Module	Topics (Course contents)	No. of Period
Lab./Field Training/ Experiment Contents of Course	1- Scale- Methods of representing Scale, Conversion of Scale Type of Linear Scale- Simple Scale, Time Scale, Comparative Scale, Diagonal Scale 2- Representing of Relief- Pictorial, Mathematical and Combine Methods. 3- Contours-Land forms Representing By Contours- Hill, Ridge, Plateau, V shaped Valley, U shaped Valley, Waterfall,	30
Keywords	Scale, Diagonal ,Relief , V shaped Valley, Ridge	

Signature of Convener, Members of CBoS:

Dr. B. L. Sinha
 Dr. B. H. Thakur
 M. S. S. AHU
 Dr. C. P. Nandan

10
 11
 12
 13
 14

Dr. Dr. S. Yadav
 Dr. S. Chandra
 Dr. Sophie Ambre
 K. J. J. 10/06/24

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books-

1. Sarkar, A.K. (1997): Practical Geography : A Systematic Approach. Orient Publication ,Kolkata.
2. Sharma, J.P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut .
3. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi.
4. Singh, L.R. (2006) : Fundamentals of Practical Geography, Sharda Pustak Bhawan,
5. Haroon, M. , Practical Geography, Mishra Trading Corporation, Varanasi,2010
6. Chauhan, P R. 2005, Practical Geography, Vasundhara Prakashan, Gorakhpur
7. Istiyak.M. 1989,A Textbook of Practical Geography,Heritage Publication New Delhi
8. Mishra R.N. ,P K Sharma, Prayogik Bhoogol Rawat Publication, Jaipur ,2019
9. Khullar , D.R., Prayogatmak Bhoogol, Kalyani Publishers, Ludhiyana.

E books-

- 1- <https://www.slideshare.net/NisarKhand/instrumental-surveying-practical-plane-table-survey>
- 2- <https://bbsbec.edu.in/wp-content/uploads/2020/01/com.pdf>
- 3- <https://surveyofindia.gov.in/documents/soichapter-v.pdf>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50 Marks

Continuous Internal Assessment (CIA): 15 Marks

End Semester Exam (ESE): 35 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 10 & 10	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
	Assignment/Seminar +Attendance - 05 Total Marks - 15	
End Semester Exam (ESE):	Laboratory / Field Skill Performance: On spot Assessment	Managed by Course teacher as per lab. status
	A. Performed the Task based on lab. work - 20 Marks	
	B. Spotting based on tools & technology (written) – 10 Marks	
	C. Viva-voce (based on principle/technology) - 05 Marks	

Signature of Convener, Members of CBoS :

Dr. S. L. Jais

Dr. R. K. Mishra

M. S. SATHI

Dr C.P. NAND

④ total

⑤ 100% 10 Dr. S. Yadav

⑥ 100% 10 Dr. S. Yadav

⑦ 100% 10 Dr. S. Yadav

⑧ 100% 10 Dr. S. Yadav

⑨ 100% 10 Dr. S. Yadav

10 Dr. S. Yadav

11 Dr. S. Yadav

12 Dr. S. Yadav

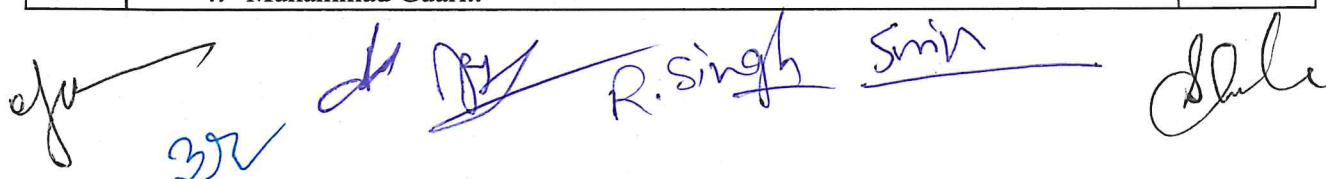
13 Dr. Sophie Ambrose - Sophie

14 Dr. S. Yadav

15 Dr. S. Yadav

FOUR YEAR UNDERGRADUATE PROGRAM (2024-28)
DEPARTMENT OF HISTORY

PART-A: Introduction			
Program: Bachelor in Arts (Certificate / Diploma / Degree/Hons)		Semester - II	Session: 2024-2025
1	Course Code	HISC 02	
2	Course Title	<i>Ancient Indian History (From Gupta age to 1206 A. D.)</i>	
3	Course Type	DSC	
4	Pre-requisite(if, any)	<i>As per Program</i>	
5	Course Learning Outcomes (CLO)	<ul style="list-style-type: none"> ➤ <i>Student will acquire knowledge about ancient period, Life style</i> ➤ <i>They can gather knowledge about the society culture & religion.</i> ➤ <i>Political condition of ancient period and the role of different social class.</i> ➤ <i>Student will learn about the Historiographical trends as well as sources of ancient Indian History</i> ➤ <i>Student will be familiar vedic period, Jainism, Buddhism and all ruling dynasties of Ancient India.</i> 	
6	Credit Value	04	<i>(Credit = 15 Hours - learning & Observation and 30 Hrs for Practices/ Field work)</i>
7	Total Marks	Max. Marks: 70+30=100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of Teaching-learning Periods 60 (01 Hr. per period)			
Module / Unit	Topics (Course contents)		No. of Period
I	<ol style="list-style-type: none"> 1. Gupta Dynasty. 2. Samudragupta and his Conquests. 3. Chandragupta Second and his Conquests. 4. Gupta Administration. 		15
II	<ol style="list-style-type: none"> 1. Gupta period Golden age of India. 2. Sangam Dynasty – Chola, Cher, Pandya 3. Pallav Dynasty. 4. Chalukya and Rastrakuta. 		15
III	<ol style="list-style-type: none"> 1. Harshvardhan – Conquests and Administration. 2. Origin of Rajputs. 3. Culture of Rajput age. 4. Gurjar, Pratihar, Pal and Sen Dynasty. 		15
IV	<ol style="list-style-type: none"> 1. India's Relation with South East Asia. 2. Arab Invasion in India 3. Mahmud Ghajanavi. 4. Muhammad Guari.. 		15



Keywords

.....

Signature of Convener & Members :

PART-C

Learning Resources: Text Books, Reference Books and Others

Text Books Recommended –

- 1- K. L. Khurana – History of India from earliest time to 1526 A. D.
- 2- K. L. Khurana – Ancient India from earliest time to 1206 A. D.
- 3- Vincent smith – oxford history of India.
- 4- L. Prasad – Ancient India –Indus valley civilization to 1200 A. D.
- 5- रतिभान सिंह नाहर – प्राचीन भारतीय इतिहास एवं संस्कृति
- 6- बी. एन. लुनिया – प्राचीन भारतीय संस्कृति
- 7- भार्गव – प्राचीन भारत
- 8- एस. आर. शर्मा – प्राचीन भारत
- 9- शांता शुक्ला – भारत का राजनीतिक इतिहास
- 10- ए. के. मित्तल – भारत का इतिहास प्रारम्भ से 1206 ई.
- 11- ए. के. मित्तल एवं डॉ. आर अग्रवाल – विश्व का इतिहास 1453 से 1890 ई.

Online Resources–

- e-Resources / e-books and e-learning portals

Online Resources–

- e-Resources / e-books and e-learning portals

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks

Continuous Internal Assessment (CIA): 30 Marks

End Semester Exam (ESE): 70 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 20 & 20 Assignment/Seminar +Attendance - 10 Total Marks - 30	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 30 Marks
End Semester Exam (ESE):	Two section – A & B Section A: Q1. Objective – 10 x1= 10 Mark; Q2. Short answer type- 5x4 =20 Marks Section B: Descriptive answer type qts., 1out of 2 from each unit- 4x10 =40 Marks	

Name and Signature of Convener & Members of CBoS:

FOUR YEAR UNDERGRADUATE PROGRAM (2024-28)

DEPARTMENT OF SANSKRIT

COURSE CURRICULUM

PART-A: Introduction			
Program: Bachelor in Arts (Certificate/Diploma/Degree/Honors)		Semester- II	Session 2024-25
1	Course Code	SNSC – 02	
2	Course Title	प्राचीन एवं आधुनिक साहित्य	
3	Course Type	DSC	
4	Pre-requisite (if any)	As per program	
5	Course Learning Outcomes (CLO)	<p>विश्व के प्राचीनतम तथा भारत के ज्ञानागारभूत ग्रन्थ ऋग्वेद तथा अन्य वैदिक, पौराणिक साहित्य के अनुशीलन से प्राचीन ज्ञान-सम्पदा का बोध होगा।</p> <p>वैदिकसाहित्य में प्रतिपादित विश्वबन्धुत्व, सर्वात्मभाव तथा समत्वचिन्तन के उच्च आदर्शों से मानवीय सद्गुणों का आधान एवं विकास होगा।</p> <p>उपदेशात्मक ग्रन्थ से नैतिक एवं व्यावहारिक ज्ञान की लब्धि होगी। ज्ञानार्जन के साथ उच्चारण एवं भाषिक क्षमता में अभिवृद्धि होगी। आधुनिक युग की संस्कृत रचनाओं की जानकारी प्राप्त होगी।</p>	
6	Credit Value	04 Credits	Credit = 15 Hours - learning & Observation
7	Total Marks	Max. Marks : 100	Min. Passing Marks : 40

PART – B Content of the Course		
Total No. of Teaching-Learning Periods (01 Hr. Per periode) 60 Periods (60 Hours)		
Unit	Topic (Course Contents)	No. of Periods
I	वैदिक एवं पौराणिक साहित्य - वेद, ब्राह्मण, आरण्यक, उपनिषद्, वेदांगों एवं पुराणों का संक्षिप्त परिचय	15
II	शुकनासोपदेश- व्याख्या तथा समीक्षात्मक प्रश्न	15
III	हितोपदेश (मित्रलाभ) व्याख्या तथा समीक्षात्मक प्रश्न	15
IV	आधुनिक संस्कृत कवि-परिचय - अप्पा शास्त्री राशीवडेकर, पंडिताक्षमाराव, जगन्नाथ पाठक,	15

	श्रीनिवासरथ, जानकीवल्लभ शास्त्री, वेंकटरामराघवन, अभिराजराजेंद्रमिश्र, डॉ. राधावल्लभ त्रिपाठी, हर्षदेवमाधव, डॉ.रेवाप्रसाद द्विवेदी, डॉ.पुष्पादीक्षित, डॉ.कामता प्रसाद त्रिपाठी	
Keyw rds	वेद, ब्राह्मण, आरण्यक, उपनिषद्, वेदांग, पुराण, शुकनासोपदेश, हितोपदेश, मित्रलाभ, आधुनिकसंस्कृतकवि	

The course of SNSC-01 & SNSC-02 considering as GE also for other faculties.

Signature of Convener & Members(CBoS) :

PART – C : Learning Resources

Text Books and Others

Text Books Recommended –

1. ऋक्सूक्तसंग्रह – तारिणीश झा, प्रकाशक – प्रकाशन केन्द्र, लखनऊ
2. ऋग्वेदसंहिता - श्रीमन्मोक्षमूलर भट्ट, प्रकाशक –कृष्णदास अकादमी, वाराणसी
3. शुक्लयजुर्वेद संहिता - श्रीरामकृष्ण शास्त्री, प्रकाशक –चौखम्बा विद्याभवन वारासी
4. पुराण-विमर्श –आचार्य बलदेव उपाध्याय, प्रकाशक–चौखम्बा विद्याभवन, वाराणसी
5. वैदिकसाहित्यस्येतिहासः – डा. राजधर मिश्रः, प्रकाशक–श्याम प्रकाशन, जयपुर
6. वैदिकसाहित्य और संस्कृति – आचार्य बलदेव उपाध्याय, प्रकाशक– शारदा मन्दिर, काशी
7. वैदिकसाहित्य और संस्कृति – वाचस्पति गैरोला, प्रकाशक -चौखम्बा संस्कृत प्रतिष्ठान, वाराणसी
8. संस्कृतसाहित्यकाइतिहास–आचार्य बलदेव उपाध्याय, शारदा निकेतन, वाराणसी
9. संस्कृतसाहित्य का समीक्षात्मक इतिहास– डा. कपिलदेव द्विवेदी
10. शुकनासोपदेश – प्रकाशक–मोतीलाल बनारसीदाम, वाराणसी
11. हितोपदेश (मित्रलाभ) - प्रकाशक–मोतीलाल बनारसीदाम, वाराणसी
12. हितोपदेश (मित्रलाभ) -आचार्य श्रीशेषराज शर्मा रेग्मी, प्रकाशक – चौखम्बा सुरभारती प्रकाशन, वाराणसी
13. हितोपदेश - नारायणराम आचार्य तीर्थ, प्रकाशक –चौखम्बा विद्याभवन, वाराणसी
14. नवस्पन्दसम्पादक–डा. राधावल्लभ त्रिपाठी, प्रकाशक –मध्यप्रदेश हिन्दी ग्रन्थ अकादमी, भोपाल

e- Resources/ e-books and e-learning portals

e- Resources/ e-books and e-learning portals

PART – D: Assessment and Evaluation

Suggested Continuous Evaluation Methods :

Maximum Marks : 100 Marks

Continuous Internal Assessment (CIA) : 30 Marks

End Semester Exam (ESE) : 70 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test /Quiz-(2) :20 & 20 Assignment / Seminar - 10 Total Marks - 30	Better marks out of the two Test / Quiz +obtained marks in Assignment shall be considered against 30 marks
End Semester Exam (ESE) :	Two section – A & B Section A :Q1 Objective-10 × 1=10 Marks Q2 Short answer type-5 × 4=20Marks Section B : Descriptive answer type qts. 1out of 2 from each unit-4 × 10=40 Marks	

Signature of Convener & Members(CBoS) :

Signature 1 *Signature 2* *Signature 3*
Signature 4 *Signature 5* *Signature 6*

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
DEPARTMENT OF ZOOLOGY
COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Life Science (Certificate / Diploma / Degree / Honors)		Semester - II	Session: 2024-2025
1	Course Code	ZOGE - 02T	
2	Course Title	Cell Biology and Histology	
3	Course Type	General Elective	
4	Pre-requisite (if, any)	<i>As per Program</i>	
5	Course Learning Outcomes (CLO)	<p>After successfully completing this course, the students will be able to-</p> <ul style="list-style-type: none"> ➤ Acquire knowledge of Cell membrane and function ➤ Understand the functioning of nucleus and extra nuclear organelles and understand the intricate cellular mechanisms involved. ➤ Gain Knowledge of key processes like cell division, ➤ Learn about various tissues of body their structural significance 	
6	Credit Value	3 Credits	<i>Credit = 15 Hours - learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of Teaching-learning Periods (01 Hr. per period) - 45 Periods (45 Hours)			
Unit	Topics (Course contents)		No. of Period
I	Cell Structure, Cell Membrane and Extra Nuclear Cell Organelles: General structure of Prokaryotes and Eukaryotes. Cell membrane organization: Origin, structure (Lipid-Lipid Bilayer Model, Dannelli & Davson Model, Unit Membrane Model and Fluid mosaic model), chemical composition and function of cell membrane, Specialization of cell membrane: microvilli desmosomes, Hemidesmosome, Septate Desmosome, plasmodesmata, tight and gap junction. Extra Nuclear Cell Organelles: Ultra structure and functions of Endoplasmic reticulum and Golgi apparatus.		11
II	Extra Nuclear Cell Organelles: Ultra structure and functions of Ribosome, Lysosome, Peroxisomes, Mitochondria: Origin, structure and function.		11
III	Nuclear Organization and Cell Division: Size, shape, structure and functions of interphase nucleus. Ultra structure of nuclear membrane and pore complex. Nucleolus: general organization, chemical composition and functions, Chromosome Morphology, Cell cycle, Cell division- Mitosis and Meiosis. Cell division checks points and their regulation. Programmed cell death (Apoptosis).		12
IV	Introduction to tissues. Epithelial tissue: types, structure and characteristics. surface modifications. Basement membrane: structure and characteristics. Connective tissue cells. Structure and function of loose, dense and adipose tissue. Cartilage and bone: classification, and fine structure. Blood: plasma, blood cells, lymph- their structure and function. Bone marrow and haemopoiesis. Structure and function of spleen. Muscular tissue: ultrastructure of smooth, skeletal and cardiac muscles. Muscle-tendon attachment. Structure and classification of neurons.		11
Keywords	<i>Cell Biology, Cell Membrane, Cell organelle, Nucleus, endoplasmic reticulum and Golgi apparatus, ribosome, lysosome, peroxisomes, Mitochondria, tissues.</i>		
Name and Signature of Convener & Members of CBOs:			

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Gupta P.K. Cell and Molecular Biology, Himalaya Publication
2. Arumugam.N, Cell biology and Molecular Biology, Saras Publication
3. Rastogi V.B. Cell Biology, Rastogi Publication
4. Verma P.S. and Agrawal Cell Biology, S. Chand Publication

Reference Books Recommended –

5. Karp, G. (2010) Cell and Molecular Biology: Concepts and Experiments (6th edition) John Wiley & Sons. Inc.
6. De Robertis, E.D.P. and De Robertis, E.M.F. (2006) Cell and Molecular Biology (8th edition) Lippincott Williams and Wilkins, Philadelphia.
7. Cooper, G.M. and Hausman, R.E. (2009) The Cell: A Molecular Approach. (5th edition) ASM Press & Sunderland, Washington, D.C.; Sinauer Associates, MA.
8. Becker, W.M.; Kleinsmith, L.J.; Hardin. J. and Bertoni, G. P. (2009) The World of the Cell. (7th edition) Pearson Benjamin Cummings Publishing, San Francisco. Practical

Online Resources–

1. National digital Library.-
<http://ndl.iitkgp.ac.in/document/Qkh4R2FGUkRNZjFicFUvWmpzQ2loY0poaUVtYIByc1BZNXk3TnZMWVfzQXpZNjhhQUplR1BTOERHelZXZUp5Nw>
2. <http://ndl.iitkgp.ac.in/document/Qkh4R2FGUkRNZjFicFUvWmpzQ2loZFJyVGFmaDFwbXpBS0kwNi9tbi91UGYxaFl6OC9Sb25QWUIXLzF1V3NUZw>
3. <https://www.youtube.com/watch?v=GYY627IeAKg>
4. E-PG Pathshala.
<https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=2rAs1Puvga4LW93zMe83aA==>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

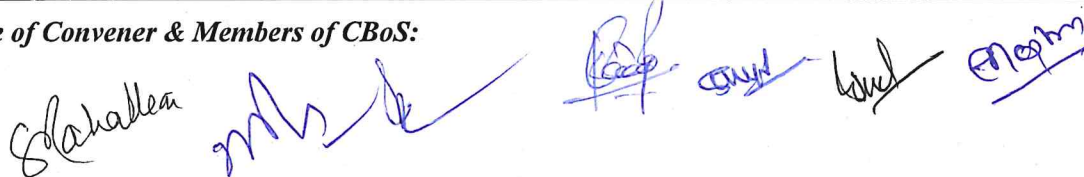
Maximum Marks: 100 Marks

Continuous Internal Assessment (CIA): 30 Marks

End Semester Exam (ESE): 70 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 20 +20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 30 Marks
	Assignment / Seminar - 10 Total Marks - 30	
End Semester Exam (ESE):	Two section – A & B Section A: Q1. Objective – 10 x1= 10 Mark; Q2. Short answer type- 5x4 =20 Marks Section B: Descriptive answer type qts., 1out of 2 from each unit-4x10=40 Marks	

Name and Signature of Convener & Members of CBoS:



FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
Department of ZOOLOGY
Course Curriculum

PART- A: Introduction			
Program: Bachelor in Life Science <i>(Certificate / Diploma / Degree / Honors)</i>		Semester - II	Session: 2024-2025
1	Course Code	ZOGE -02P	
2	Course Title	Cell Biology and Histology	
3	Course Type	General Elective	
4	Pre-requisite (if, any)	<i>As per Program</i>	
5	Course Learning Outcomes (CLO)	After successfully completing this course, the students will be able to- <ul style="list-style-type: none"> ➤ Understand ultra structure of prokaryote and Eukaryote cell, undertake microscopic study to gain knowledge ➤ learn to identify cell organelles ➤ Explain and demonstrate mitosis and meiosis division in onion root tip, Grass hopper testis, etc ➤ Gain knowledge of Microtomy 	
6	Credit Value	1 Credits	<i>Credit =30 Hours Laboratory or Field learning/Training</i>
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)			
Module	Topics (Course contents)		No. of Period
Lab./Field Training/ Experiment Contents of Course	<ol style="list-style-type: none"> 1. Study of prokaryotic and eukaryotic cell types with the help of chart, slide and video. 2. Separation and isolation of cells by sedimentation velocity in unit gravity. 3. Disruption of cells, isolation and identification of subcellular components, isolation of nuclei. 4. Isolation of mitochondria by differential centrifugation and identification of succinic dehydrogenase in the mitochondrial pellet. 5. Chromosome segregation in mitosis and meiosis. 6. Preparation of chromosome squashes from Onion Root tip for observation of stages of Mitosis 7. Preparation of chromosome squashes from grasshopper/cockroach testes for the observation of stages of meiosis. 8. Isolation and estimation of DNA. 9. Study of types of tissue through permanent slides: epithelial, connective, muscular, Nervous etc. 10. Preparation of Practical Record 11. Group discussion/Viva or Seminar presentation on related topics mentioned in Theory paper 		30
Keywords	<i>Prokaryote, Eukaryote, cell division, Mitosis, Meiosis, DNA Separation, Histology of Tissue, Microtomy.</i>		
Signature of Convener & Members (CBoS) :			

PART-C: Learning Resources**Text Books, Reference Books and Others****Text Books Recommended –**

1. Debarati Das Essential Practical Handbook of Cell Biology & Genetics, Biometry & Microbiology, A Laboratory Manual, Academic Publishers.
2. Mohan P Arora Cytogenetics:, Himalayan Publishing House

Reference Books Recommended –

3. Karp, G. (2010) Cell and Molecular Biology: Concepts and Experiments (6th edition) John Wiley & Sons. Inc.

Online Resources– National Digital Library

➤ http://ndl.iitkgp.ac.in/he_document/inflibnet_epgp/inflibnet_epgp/IN_I_e_P_P_1_Z_51296_P_1_P_o_e_51600_M_0_P_g_51604_51605?e=13|*|||

PART -D: Assessment and Evaluation**Suggested Continuous Evaluation Methods:**

Maximum Marks: 50 Marks

Continuous Internal Assessment (CIA): 15 Marks

End Semester Exam (ESE): 35 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 10 & 10 Assignment/Seminar +Attendance - 05 Total Marks - 15	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
End Semester Exam (ESE):	Laboratory / Field Skill Performance: On spot Assessment A. Performed the Task based on lab. work - 20 Marks B. Spotting based on tools & technology (written) – 10 Marks C. Viva-voce (based on principle/technology) - 05 Marks	Managed by Course teacher as per lab. status


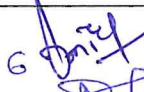








Name and Signature of Convener & Members of BoS :

(Handwritten signatures in blue ink)

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF BOTANY

COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Life Sciences <i>(Diploma / Degree/Honors)</i>		Semester – III/ IV/V/VI/VII/VIII	Session: 2024-2025
1	Course Code	BOGE -02 T	
2	Course Title	Microbes and Thallophyta	
3	Course Type	Generic elective (GE)	
4	Pre-requisite (if, any)	As per program	
5	Course Learning Outcomes (CLO)	At the end of this course, the students will be able to 1. Understand about the Microbes and their Importance. 2. Identify edible mushrooms and learn cultivation techniques. 3. Learn about bio-fertilizers and their uses. 4. Understand life cycles of different algae and fungi.	
6	Credit Value	3 Credits	Credit = 15 Hours - learning & Observation
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of Teaching-learning Periods (01 Hr. per period) - 45 Periods (45 Hours)			
Unit	Topics (Course contents)		No. of Period
I	Viruses: - general characteristics, nature, structure and nomenclature, Bacteriophages and TMV; Lytic and Lysogenic cycles, transmission and replication of viruses, Symptoms of viral diseases on plants, important plant diseases, viroid, prions. Actinomycetes: general characteristics, Structure, reproduction and economic importance. Mycoplasma, Phytoplasma; general characteristics, structure, reproduction and their economic uses.		12
II	Bacteria: History, general character, classification and morphology, Gram positive and Gram-negative bacteria, structure of bacteria shape, size flagella and ultra structure of bacterial cell; Bacterial Growth curve, factors affecting growth of microbes; sporulation, reproduction, recombination in bacteria- Transformation Conjugation and Transduction, and Economic importance. Cyanobacteria: General characteristics, morphology, Heterocyst, cell structure of Cyanobacteria, reproduction and economic importance of Bacteria.		11
III	Phycology: General characteristic features of Algae. Algae in diversified habitat, Salient features, occurrence, classification and range of thallus organization. Prominent pigments found in Algae. Reproduction classification, general character and life cycle of <i>-Volvox, Oedogonium, Chara, Vaucheria, Ectocarpus and Polysiphonia</i> . Economic importance of algae - Role of algae in soil fertility, algae as biofertilizer, blue green algae and nitrogen fixation. Symbiosis; algal products - Agar, biofuel		11
IV	Mycology, Mushroom Cultivation, Lichenology & Mycorrhiza: General characteristic features of Fungi, Economic importance and Classification of Fungi, Nutrition, Heterothallism, Physiological specialization, Heterokaryosis & Parasexuality in Fungi. Fungi as biocontrol agent. Classification, general character and life cycle of <i>-Mucor, Phytophthora, Penicillium, Peziza, Ustilago, Puccinia, Agaricus, Colletotrichum, Alternaria</i> . Edible Mushroom- Button and Oyster mushroom and their cultivation. General account of lichens. General account of Mycorrhiza.		11
Keywords	<i>Mycoplasma, Transduction, Biofertilizer, Parasexuality.</i>		
Signature of Convener & Members (CBoS):			
1		6	
2		7	
3		8	
4		9	
5		10	

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Kumar, H.D. (1999). Introductory Phycology. Affiliated East-West. Press Pvt. Ltd. Delhi. 2nd edition.
2. Tortora, G.J., Funke, B.R., Case, C.L. (2010). Microbiology: An Introduction, Pearson Benjamin Cummings, U.S.A. 10th edition.
3. Sethi, I.K. and Walia, S.K. (2011). Text book of Fungi & Their Allies, MacMillan Publishers Pvt. Ltd., Delhi.
4. Aggarwal, S. K. 2009. Foundation Course in Biology, A one books Pvt. Ltd., New Delhi.
5. Aneja, K. R. 1993. Experiments in Microbiology, Pathology and Tissue Culture, VishwaPrakashan, NewDelhi.
6. Annie Ragland, 2012. Algae and Bryophytes, Saras Publication, Kanyakumari, India.
7. Basu, A. N. 1993. Essentials of Plant Viruses, Vectors and Plant diseases, New Age International, New Delhi.
8. Chopra. G. L. 1984. A text book of Algae, Rastogi publications, Meerut, India.
9. Dubey, R. C. and Maheshwari. D.K. 2012. Practical Microbiology, S. Chand & Company, Pvt. Ltd., NewDelhi.
10. Fritsch, R. E. 1977. Structure and Reproduction of Algae, Cambridge University Press, London.
11. Sharma, P.D. (2011). Plant Pathology. Meerut, U.P.: Rastogi Publication.
12. Pandey B.P. 2001. College Botany Volume 1, S Chand & Company Pvt.Ltd, New Delhi.

Reference books:

1. Webster, J., Weber, R. (2007). Introduction to Fungi, 3rd edition. Cambridge, U.K.: Cambridge University Press.
2. Pelzar, 1963. Microbiology, Tata McGraw Hill, New Delhi
3. Rangaswamy, G. 2009, Disease of Crop Plants in India, Prientice Hall of India, New Delhi.
4. Microbiology Fundamental and Applications (hindi) (pb) 9. ISBN: 9788188826230 Edition: 03Year : 2016Author : Dr. Purohit SS , Dr. Deo Publisher : Student Edition Language : Hindi
5. Modern Microbiology (hindi) (hb) ISBN: 9788177543599Edition : 1Year : 2018Author : Dr. Purohit SS , Dr. Singh T Publisher : Agrobios (India)
6. Plant pathology by R.S. Mehrotra, Tata McGraw-Hill Publication

Online Resources–

- > e-Resources / e-learning portals
- > www.swayam.ac.in
- > www.ignou.ac.in
- > www.egyankosh.ac.in
- > www.iitm.ac.in
- > www.eskillindia.org
- > www.eshiksha.mp.gov.in
- > www.vlab.co.in
- > www.internshala.com
- > www.ndl.iitkgp.ac.in

Online Resources–

> e-Resources / e-books and e-learning portals

1. <https://www.classcentral.com/tag/microbiology>
2. <https://www.edx.org/learn/microbiology>
3. <https://www.mooc-list.com/tags/microbiology>
4. <https://www.udemy.com/topic/microbiology/>
5. <https://ucmp.berkeley.edu/bacteria/bacteria.html>
6. <https://www.livescience.com/53272-what-is-a-virus.html>
7. <https://glclambathach.in/lms/Economic%20importance%20of%20Algae.pdf>
8. <https://www.slideshare.net/sardar1109/algae-notes-1>
9. <https://www.onlinebiologynotes.com/algae-general-characteristics-classification/>
10. <https://www.sciencedirect.com/topics/immunology-and-microbiology/fungus>
11. <https://ucmp.berkeley.edu/fungi/fungi.html>
12. <https://agrimoon.com/wp-content/uploads/Mashroom-culture.pdf>
13. <http://ecoursesonline.iasri.res.in/mod/page/view.php?id=11293>
14. http://www.jnkvv.org/PDF/11042020102651plant_pathology.pdf
15. <https://www.apsnet.org/edcenter/disimpactmngmnt/topc/EpidemiologyTemporal/Pages/ManagementStrategies.aspx>
16. <https://www.agrilcareer.com/6-easy-steps-for-mushroom-cultivation/>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks

Continuous Internal Assessment (CIA): 30 Marks

End Semester Exam (ESE): 70 Marks

Continuous Internal Assessment (CIA):30 (By Course Teacher)	Internal Test / Quiz-(2): 20 +20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 30 Marks
	Assignment / Seminar - 10 Total Marks - 30	
End Semester Exam (ESE): 70	Two section – A & B Section A: Q1. Objective – 10 x1= 10 Mark; Q2. Short answer type- 5x4 =20 Marks Section B: Descriptive answer type qts., 1out of 2 from each unit-4x10=40 Marks	

1. Blog
2. Purohit
3. Indira
4. MS
5. H
6. Garg
7. Blatt
8. M
9. J

Name and Signature of Convener & Members of CBoS:

FOUR YEAR UNDERGRADUATE PROGRAM (2024–28)

DEPARTMENT OF BOTANY

COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Life Sciences (Diploma / Degree/Honors)		Semester – III/IV/ V/VI/VII/VIII	Session: 2024-2025
1	Course Code	BOGE- 02 P	
2	Course Title	Lab. Course –02 (Microbes and Thallophyta)	
3	Course Type	Laboratory course	
4	Pre-requisite (if, any)	As per program	
5	Course Learning Outcomes (CLO)	<ol style="list-style-type: none"> 1. Understand the Viruses, Bacteria, Phycology, Mycology and Plant pathology 2. Learn microbial techniques which will be beneficial for agriculture and industry. 3. Learn life cycles of selected genera of different groups 4. Understand etiology of plant diseases 5. Apply their knowledge in the crop fields to eradicate or avoid the diseases 	
6	Credit Value	1 Credits	<i>Credit =30 Hours Laboratory or Field learning/Training</i>
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20

PART -B: Content of the Course		
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)		
Module	Topics (Course contents)	No. of Period
Lab./Field Training/ Experiment Contents of Course	<ol style="list-style-type: none"> 1. Collection of viral/ Bactrial /fungal infected plants 2. Study of plant disease symptoms caused by viral/ Bactrial /fungal/ Mycoplasma 3. BACTERIAL IDENTIFICATION: Isolation of bacteria Staining techniques: Gram's, staining 4. Study / Slide preparation of available Cyanobacteria 5. PHYCOLOGY: Study / Slide preparation and Staining of algae –<i>Volvox, Oedogonium</i> and <i>Chara; Vaucheria; Ectocarpus Polysiphonia</i> 6. MYCOLOGY: Study/ Slide preparation and . Staining of fungi. <i>Mucor, Phytophthora, Penicillium, Peziza, Ustilago, Puccinia; Agaricus, colletotrichum, Alternaria.</i> Study of Button and Oyster Mushroom Lichens: crustose, foliose and fruticose specimens. Study of VAM fungi 	30
Keywords	infected plants, VAM, algae, fungi	

Signature of Convener & Members (CBoS) :

1.	6.
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4.	9.
5.	10.

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Practical Botany (Part I) ISBN #:81-301-0008-8 Sunil D Purohit, Gotam K Kukda & Anamika Singhvi Edition:2013 Apex Publishing House Durga Nursery Road, Udaipur, Rajasthan (bilingual).
2. Pandey S.K. (2012). Quick Concept of Botany. Publisher LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany (ISBN: 978-3-8484-3104-5).
3. Dubey, R. C. and Maheshwari. D.K. 2012. Practical Microbiology, S. Chand & Company, Pvt. Ltd., New Delhi.
4. Pandey. B.P. 2014 Modern Practical Botany, (Vol-I) S. Chand and Company Pvt. Ltd., New Delhi.

Online Resources–

➤ e-Resources / e-books and e-learning portals

- www.swayam.ac.in
- www.ignou.ac.in
- www.egyankosh.ac.in
- www.iitm.ac.in
- www.eskillindia.org
- www.eshiksha.mp.gov.in
- www.vlab.co.in
- www.internshala.com
- www.ndl.iitkgp.ac.in

Online Resources–

➤ e-Resources / e-books and e-learning portals

1. <https://community.plantae.org/tags/moocfuturelearn.com/courses/teaching-biology-inspiring-students-with-plants-in-science>
2. <https://microbiologysociety.org/publication/education-outreach-resources/basic-practical-microbiology-a-manual.html>
3. <https://microbiologyonline.org/file/7926d7789d8a2f7b2075109f68c3175e.pdf>
4. <http://allaboutalgae.com/benefits/>
5. <https://repository.cimmyt.org/xmlui/bitstream/handle/10883/3219/64331.pdf>
6. <https://www.mooc-list.com/tags/microbiology/>
7. <http://www.agrifs.ir/sites/default/files/A%20text%20book%20of%20practical%20botany%201%20%7BAshok%20Bendre%7D%20%5B8>
8. <https://171339239%5D%20%281984%29.pdf>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50 Marks

Continuous Internal Assessment (CIA): 15 Marks

End Semester Exam (ESE): 35 Marks

Continuous Internal Assessment (CIA): 15 (By Course Teacher)	Internal Test / Quiz-(2): 10 & 10	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
	Assignment/Seminar +Attendance - 05 Total Marks - 15	
End Semester Exam (ESE): 35	Laboratory / Field Skill Performance: On spot Assessment	
	A. Performed the Task based on lab. work - 20 Marks	Managed by Course teacher as per lab. status
	B. Spotting based on tools & technology (written) - 10 Marks C. Viva-voce (based on principle/technology) - 05 Marks	

Name and Signature of Convener & Members of CBoS:

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FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
Department of Biochemistry
Course Curriculum

PART- A: Introduction			
Program: Bachelor in Science <i>(Certificate / Diploma / Degree / Honors)</i>		Semester - II	
		Session: 2024-2025	
1	Course Code	BCGE – 02 T	
2	Course Title	Bioanalytical Techniques	
3	Course Type	Generic Elective (Theory)	
4	Pre-requisite (if, any)	As per the Programm	
5	Course Learning Outcomes (CLO)	<p><i>On successful completion of the course, the student shall be able to:</i></p> <ul style="list-style-type: none"> ➤ Understand basic concepts of Spectroscopy. ➤ Describe amino acids with application of chromatography. ➤ Understand basic concepts of centrifugation. ➤ Understand working principle, instrumentation and applications of various electrophoretic techniques. 	
6	Credit Value	3 Credits	<i>Credit = 15 Hours - learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of Teaching-learning Periods (01 Hr. per period) - 45 Periods (45 Hours)			
Unit	Topics (Course contents)		No. of Period
I	Spectroscopy - Concepts of spectroscopy, Laws of photometry. Beer-Lambert's law, Principles and applications of colorimetry. Visible and UV spectroscopy. Electrophoretic techniques – Principles of electrophoretic separation. Types of electrophoresis including paper and gel.		12
II	Chromatography – Principles and applications of paper, thin layer, ion exchange, affinity, gel permeation, adsorption and partition chromatography. HPLC and FPLC.		09
III	Centrifugation – Principle of centrifugation, concepts of RCF, different types of instruments and rotors, preparative, differential and density gradient centrifugation, analytical, ultra-centrifugation, determination of molecular weights and other applications.		12
IV	Microscopy – Bright field, Dark field, Phase contrast and Fluorescence microscopy Transmission and scanning microscopy, freeze fracture techniques, Immunological Techniques: Immuno diffusion, immune electrophoresis, radioimmunoassay, ELISA, Immuno fluorescence.		12
Keywords	Spectroscopy, Chromatography, Centrifugation, Electrophoresis, Microscope, ELISA.		

Name and Signature of Convener & Members of CBoS:

PART-C: Learning Resources		
Text Books, Reference Books and Others		
Text Books Recommended –		
<ul style="list-style-type: none"> ➤ K Wilson and John Walker Practical Biochemistry: Principles & Techniques ➤ RF Boyer Biochemistry Laboratory: Modern Theory & Techniques ➤ Physical biochemistry by D Friefelder, WH Freeman & Co., USA. ➤ Biophysical Chemistry By Upahyaya & Nath 		
Online Resources–		
<ul style="list-style-type: none"> ➤ e-Resources / e-books and e-learning portals ➤ https://en.wikibooks.org/wiki/Biochemistry ➤ https://www.pdfdrive.com/biomolecules-books.html ➤ https://ncert.nic.in/textbook.php 		
PART -D: Assessment and Evaluation		
Suggested Continuous Evaluation Methods:		
Maximum Marks:		100 Marks
Continuous Internal Assessment (CIA):		30 Marks
End Semester Exam (ESE):		70 Marks
Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 20 +20 Assignment / Seminar - 10 Total Marks - 30	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 30 Marks
End Semester Exam (ESE):	Two section – A & B Section A: Q1. Objective – 10 x1= 10 Mark; Q2. Short answer type- 5x4 =20 Marks Section B: Descriptive answer type qts., 1out of 2 from each unit-4x10=40 Marks	

Name and Signature of Convener & Members of CBoS:




FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
Department of Biochemistry
Course Curriculum

PART- A: Introduction			
Program: Bachelor in Science <i>(Certificate / Diploma / Degree/ Honors)</i>		Semester -II	Session: 2024-2025
1	Course Code	BCGE- 02P	
2	Course Title	Bioanalytical Techniques	
3	Course Type	Generic Elective (Practical)	
4	Pre-requisite (if, any)	As Per the Course	
5	Course Learning Outcomes (CLO)	<p><i>On successful completion of the course, the student shall be able to:</i></p> <ul style="list-style-type: none"> ➤ Examine different components present in the extract of radish leaves by using chromatography technique. ➤ Analysis independently of various biomolecules in the laboratory. ➤ Demonstrate the effect of inorganic compound and its percent purities in various types of samples. ➤ Analyze characteristics of UV absorption spectra of by different methods in samples in different biomolecules. 	
6	Credit Value	1 Credits	Credit =30 Hours Laboratory or Field learning/Training
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)			
Module	Topics (Course contents)		No. of Period
Lab./Field Training/ Experiment Contents of Course	<ul style="list-style-type: none"> ➤ Verification of Beer-Lambert's law. ➤ Separation of sugars using paper chromatography. ➤ Separation of amino acids by paper chromatography ➤ Separation of plant pigments by Paper chromatography 		30
Keywords	Spectroscopy, Estimation, Quantitative, Separation, Techniques		

Name and Signature of Convener & Members of CBoS:

PART-C: Learning Resources		
Text Books, Reference Books and Others		
Text Books Recommended –		
<ul style="list-style-type: none"> ➤ K Wilson and John Walker Practical Biochemistry: Principles & Techniques ➤ RF Boyer Biochemistry Laboratory: Modern Theory & Techniques ➤ Physical biochemistry by D Friefelder, WH Freeman & Co., USA. ➤ Biophysical Chemistry By Upahyaya & Nath 		
Online Resources–		
<ul style="list-style-type: none"> ➤ e-Resources / e-books and e-learning portals ➤ https://en.wikibooks.org/wiki/Biochemistry ➤ https://www.pdfdrive.com/biomolecules-books.html ➤ https://ncert.nic.in/textbook.php 		
PART -D: Assessment and Evaluation		
Suggested Continuous Evaluation Methods:		
Maximum Marks:		50 Marks
Continuous Internal Assessment (CIA):		15 Marks
End Semester Exam (ESE):		35 Marks
Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 10 & 10 Assignment/Seminar +Attendance - 05 Total Marks - 15	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
End Semester Exam (ESE):	Laboratory / Field Skill Performance: On spot Assessment A. Performed the Task based on lab. work - 20 Marks B. Spotting based on tools & technology (written) – 10 Marks C. Viva-voce (based on principle/technology) - 05 Marks	Managed by Course teacher as per lab. status




Name and Signature of Convener & Members of CBoS:

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
DEPARTMENT OF INFORMATION SCIENCE
COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Science (CS) (Certificate / Diploma / Degree/Honors)		Semester - II	Session: 2024-2025
1	Course Code	CSGE-02T	
2	Course Title	Programming in C++	
3	Course Type	DGE (Discipline Generic Elective)	
4	Prerequisite	As per program	
5	Course Learning Outcomes (CLO)	At the end of this course, the students will be able to: <ul style="list-style-type: none"> • Understand the fundamentals of object oriented programming. • Write programs related to concept of object oriented program • Define functions, class and to create own Libraries. • Write programs for file handling. • Develop small programs to solve real world problems. 	
6	Credit Value	3 Credits	Credit = 15 Hours - Learning & Observation
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of Teaching-Learning Periods (01 Hr. per period) - 45 Periods (45 Hours)			
Unit	Topics (Course contents)		No. of Period
I	Introduction and Programming Concepts : Definition of Program, Source file, Object file, Executable file, Header file, Language Translator- Assembler, Interpreter, Compiler, Testing, Debugging, Linker and Loader, Algorithms, Flow Charts, History of C language, Structure of C program , C Tokens : Identifiers, Keywords, Constants, Variables, Operators, Data Types, Control structure: Conditional and looping statements, Operator Precedence and Associativity, Array and its types, Pointer, Functions : Standard Library and User defined functions, function prototype, Call by value and Call by reference, recursive functions, String functions.		12
II	Introduction to Object Oriented Programming: Concept of object oriented programming, Features of C++, Structure of C++ program, Data types, structure, class and objects, Access Specifiers: Private, Public, Protected, inline functions, static data and static functions. Constructor: Default constructor, Copy constructor, Parameterized constructor, Destructor.		11
III	Inheritance and Polymorphism: Definition, Concept of base and derived class, Types of Inheritance: Single, Multilevel, Multiple, Hierarchical and Hybrid Inheritance. Polymorphism: Definition, Compile time polymorphism: Function overloading, Operator overloading, constructor overloading, Runtime polymorphism: Virtual Function, pure virtual function. Inline function, friend function, friend class.		11
IV	Input-Output and File Handling : I/O classes, File and Stream classes, Char I/O, String I/O, Object I/O, File Pointer, Opening and Closing file. Exception Handling and Standard Template Library: Definition, Exception basics, try, catch and throws keywords, Template.		11
Keywords	Token, Identifier, Keyword, Array, Function, Class, Object, Polymorphism, Inheritance, Constructor, Template.		
Name and Signature of Convener & Members of CBoS:			
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>Dr. H.S. Hetg Chairman</p> </div> <div style="text-align: center;"> <p><i>[Signature]</i> Sunita</p> </div> <div style="text-align: center;"> <p><i>[Signature]</i> Shreyansh Singh</p> </div> <div style="text-align: center;"> <p><i>[Signature]</i> Jyoti Kulkarni</p> </div> <div style="text-align: center;"> <p><i>[Signature]</i> (Shresh Thakur)</p> </div> <div style="text-align: center;"> <p><i>[Signature]</i> ANJEETA KUMAR</p> </div> </div>			

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended:

- Peter Juliff, Program Design, PHI Publications.
- Yashwant Kanetkar, Let us C: BPB Publications.
- E. Balaguruswamy, Programming in ANSI C, Tata McGraw Hill

Reference Books Recommended:

- Y. Kanetkar, Let us C++, B.P.B Publication .
- E. Balaguruswamy, Programming in C++, Tata McGraw Hill.
- R. Kumar, Object Oriented Programming with C++, Prakhar Publication(Hindi)
- Dhupiya, Lakhyani , C++ Programming Alka Publications, Ajmer (Paperback, Dhupiya, Lakhyani)(Hindi)

Online Resources:

- Introduction to C and C++ from SWAYAM/NPTEL
https://onlinecourses.nptel.ac.in/noc22_cs103/preview
<https://www.youtube.com/watch?v=KG4hjVDw-p8&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=2>
- Constant and Inline Function through NPTEL:
<https://www.youtube.com/watch?v=pX6LufLso2M&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=10>
- Pointer and Reference NPTEL
<https://www.youtube.com/watch?v=GtsBZ5e1-cE&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=12>
- Function Overloading NPTEL
<https://www.youtube.com/watch?v=uJGmGAShHeU&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=13>
- Operator Overloading NPTEL
<https://www.youtube.com/watch?v=0jpOwe4d-FE&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=17>
- Dynamic Memory Management NPTEL
<https://www.youtube.com/watch?v=lkFK2X6qIc0&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=18>
- Class and Object NPTEL
https://www.youtube.com/watch?v=wtuks_f3vP4&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=24
- Access Specifiers NPTEL
https://www.youtube.com/watch?v=6ki_W7cXdM0&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=22
- Constructor and Destructor NPTEL
https://www.youtube.com/watch?v=wtuks_f3vP4&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=24
- C++ different topics from W3School
https://www.w3schools.com/_CPP/default.asp
- C++ different topics from Javatpoint
<https://www.javatpoint.com/cpp-tutorial>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks

Continuous Internal Assessment (CIA): 30 Marks

End Semester Exam (ESE): 70 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 20 +20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 30 Marks
	Assignment / Seminar - 10 Total Marks - 30	
End Semester Exam (ESE):	Two section – A & B	
	Section A: Q1. Objective – 10 x1= 10 Mark; Q2. Short answer type- 5x4 =20 Marks Section B: Descriptive answer type qts., 1 out of 2 from each unit-4x10=40 Marks	

Name and Signature of Convener & Members of CBoS:

Dr H.S. Hota
Chairman

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Suresh Thakur

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ANJETA KUMAR

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
DEPARTMENT OF INFORMATION SCIENCE
COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Science (CS) <i>(Certificate / Diploma / Degree)</i>		Semester - II	Session: 2024-2025
1	Course Code	CSGE-02P	
2	Course Title	Lab 2: Programming in C++	
3	Course Type	Practical	
4	Prerequisite	<i>As per program</i>	
5	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> • Understand the fundamental programming concepts and methodologies which are essential to create good C++ programs. • Code, test, and implement a well-structured, robust computer program using the C++ programming language. • Write reusable modules (collections of functions). • Understand design/implementation issues involved with variable allocation and binding, control flow, types, subroutines, parameter passing. • Develop an in-depth understanding of functional, logic, and object-oriented programming paradigms. 	
6	Credit Value	1 Credits	<i>Credit =30 Hours Laboratory or Field Learning/Training</i>
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)			
Module	Topics (Course contents)		No. of Period
List of Practical Experiments.	<ol style="list-style-type: none"> 1. Write a program in C++ for addition of two numbers using float data type. 2. Write a program in C++ to find the biggest number between two numbers. 3. Write a program in C++ to find the factorial value of any entered number using do – while loop. 4. Write a program in C++ for various arithmetic operations using switch case statements. 5. Write a program in C++ for Multiplication of two 3X3 matrices. 6. Write a program in C++ to store five books of information using structure. 7. Write a program in C++ to store six employee information using union. 8. Write a program in C++ to calculate simple interest using call by value and call by reference method. 9. Write a program in C++ to find the sum and average of five numbers using class and objects. 10. Write a program in C++ to multiply two numbers using private and public member functions. 11. Write a program in C++ to print structure like this using scope resolution operator 1 1 2 1 2 3 1 2 3 4 1 2 3 4 5 12. Write a program in C++ for constructor and Destructor. 		30

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended:

- Peter Juliff, Program Design, PHI Publications.
- Yashwant Kanetkar, Let us C: BPB Publications.
- E. Balaguruswamy, Programming in ANSI C, Tata McGraw Hill

Reference Books Recommended:

- Y. Kanetkar, Let us C++, B.P.B Publication .
- E. Balaguruswamy, Programming in C++, Tata McGraw Hill.
- R. Kumar, Object Oriented Programming with C++, Prakhar Publication(Hindi)
- Dhupiya, Lakhyani , C++ Programming Alka Publications, Ajmer (Paperback, Dhupiya, Lakhyani)(Hindi)

Online Resources:

- Introduction to C and C++ from SWAYAM/NPTEL
https://onlinecourses.nptel.ac.in/noc22_cs103/preview
<https://www.youtube.com/watch?v=KG4hjVDw-p8&list=PLmp4yIk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=2>
- Constant and Inline Function through NPTEL:
<https://www.youtube.com/watch?v=pX6LufLso2M&list=PLmp4yIk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=10>
- Pointer and Reference NPTEL
<https://www.youtube.com/watch?v=GtsBZ5e1-cE&list=PLmp4yIk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=12>
- Function Overloading NPTEL
<https://www.youtube.com/watch?v=uJGmGAShHeU&list=PLmp4yIk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=13>
- Operator Overloading NPTEL
<https://www.youtube.com/watch?v=0jpOwe4d-FE&list=PLmp4yIk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=17>
- Dynamic Memory Management NPTEL
<https://www.youtube.com/watch?v=lkFK2X6qIc0&list=PLmp4yIk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=18>
- Class and Object NPTEL
https://www.youtube.com/watch?v=wtuks_f3vP4&list=PLmp4yIk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=24
- Access Specifiers NPTEL
https://www.youtube.com/watch?v=6ki_W7cXdM0&list=PLmp4yIk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=22
- Constructor and Destructor NPTEL
https://www.youtube.com/watch?v=wtuks_f3vP4&list=PLmp4yIk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=24
- C++ different topics from W3School
<https://www.w3schools.com/Cpp/default.asp>
- C++ different topics from Javatpoint
<https://www.javatpoint.com/cpp-tutorial>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50 Marks

Continuous Internal Assessment (CIA): 15 Marks

End Semester Exam (ESE): 35 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 10 & 10	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
	Assignment/Seminar +Attendance - 05 Total Marks - 15	
End Semester Exam (ESE):	Laboratory / Field Skill Performance: On spot Assessment	
	A. Performed the Task based on lab. work - 20 Marks	Managed by Course teacher as per lab. status
	B. Spotting based on tools & technology (written) - 10 Marks	
C. Viva-voce (based on principle/technology) - 05 Marks		

Name and Signature of Convener & Members of CBoS:

~~Dr. H.S. Hota~~
Chairman

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Sudil

Ss
(Suresh Thakur)

Snehalata
Arora

Dr. Jyoti
Prakash

Dr. Anurag
Kumar

Dr. Anurag
Kumar

Anjeeta
Kujur

FOUR YEAR UNDERGRADUATE PROGRAM-2024-28

FACULTY OF COMMERCE COURSE CURRICULUM

PART-A : Introduction			
Program : Bachelor in Commerce (Certificate/Diploma/Degree /Honors		Semester-II	Session : 2024-25
1	Course Code	COGE-06	
2	Course Title	Business Environment	
3	Course Type	Generic Elective Course (COGE)	
4	Pre-requisite (if any)	As per program	
5	Course Learning Outcomes (CLO)	<ul style="list-style-type: none"> Understand relationship between environment and business. Demonstrate and develop conceptual frame work of business environment and generate interest in international business. Identify the nature of local business environment and its component. Demonstrate govt. policies and different roles for the emergence, upliftment and smooth functioning of business organization. Extend knowledge of Industrial Policy and NITI AYOG 	
6	Credit Value	4 Credits	Credit= 15 Hours-learning & Observation
7	Total Marks	Max. Marks : 100	Minimum Passing Marks : 40
PART -B: Content of the Course			
Total No. of Teaching-learning Periods (01 Hr. per period)-60 Periods (60 Hours)			
Unit	Topics (Course Contents)		No. of Period
I	Business Environment: Type of Environment-internal, external, micro and macro environment. Competitive structure of industry, environmental analysis and strategic management. Managing diversity. Scope of business, characteristics of business. Objectives and the uses of study. Process and limitations of environmental analysis.		15
II	Economic Problem of Growth: Inflation, Parallel Economy, Industrial Sickness. Economic Factors of Growth: Foreign Direct Investment (FDI), Foreign Portfolio Investment (FPI), Micro, Small and Medium Enterprises (MSMEs)		15
III	Govt. Policies: Export-Import Policy, Monetary & Fiscal Policy, Privatization, Liberalization, Globalization, Demonetization, Disinvestment. A brief Introduction of Indian Economic Planning : NITI AAYOG. Industrial Policy of Chhattisgarh.		15
IV	International Environment: Trends in World Trade & The Problems of Developing Countries, Foreign Trade & Economic Growth, International Economic Groups: GATT, WTO, UNCTAD, World Bank, IMF, TRIPS, TRIMS Regional Trade Agreements: European Union (EU), ASEAN, SAARC,NAFTA		15
Key Words	Business Environment, Economic Problem of Growth, Economic Factor of Growth, Govt. Policies, Economic Planning, Industrial Policy, International Environment, International Economic Group, Agreement of Regional Trade		

Signature of Convener & Members (CBoS):

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended:-

1. Sinha V.C., Business Environment, SBPD Publications Agra, (Hindi & English)
2. Dr. J.P. Mishra, Shahitya Bhawan Publication, Agra (Hindi Medium)
3. Singh Ranjeet, Business Environment, Kalyani Publishers New Delhi.
4. Upadhyay Sharma Dayal, Business Environment (Hindi), Ramesh Book Depot Jaipur
5. Singh, Dr. S.K., Business Environment (Hindi), Sahitya Bhawan Publication Agra.
6. Jain Dr. S.C., Business Environment (Hindi), Kailash Pustak Sadan, Bhopal
7. Joshi Rosy, Kapoor Sangam, Business Environment (Hindi), Kalyani Publishers New Delhi.

Note: Learners are advised to use latest edition of text books.

Reference Books:

1. Sheikh Saleem, Business Environment, Pearson.
2. Francis, Cherunilan, Business Environment, Himalaya Publishing House.
3. Gupta C.B., Business Environment Sultan Chand & Sons.
4. Paliwar Veena Keshav, Business Environment, PHI Learning Private Limited, Delhi.

On line Resources : * e-Resources/e-books and e-learning portals:

https://onlinecourses.swayam2.ac.in/imb24_mg33/preview

<https://egyankosh.ac.in/handle/123456789/3142>

<https://www.youtube.com/watch?v=Q1yw7Tchsc8>

<https://www.youtube.com/watch?v=9jUHXPGEbEM>

<https://www.youtube.com/playlist?list=PLJtjvO3aaWe2oQxrJov7CfDFDC3aebxi1>

PART-D: Assessment and Evaluation

Suggested Continuous Evaluation Methods: Maximum Marks **100 Marks**

Continuous Internal Assessment (CIA) : **30 Marks**

End Semester Exam. (ESE) : **70 Marks**

Continuous Internal Assessment : (CIA)- (By Course Teacher)	Internal Test/Quiz : 20 & 20 (Assignment/Seminar): 10 Total Marks- 30	Better marks out of the two test/quiz+ obtained marks in Assessment shall be considered against 30 Marks
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End Semester Exam. (ESE):
Two Section :- A & B
Section A: Q.1-Objective -10x1=10 Marks; Q.2-Short Answer type-5x4=20 Marks
Section B: Descriptive answer type qts. 1 out of 2 from each unit-4x10=40 Marks

Name and Signature of Convener & Members of (CBoS) :

DEPARTMENT OF HISTORY

PART-A: Introduction			
Program: Bachelor in Arts <i>(Certificate / Diploma / Degree/Hons)</i>		Semester – II, IV	
		Session: 2024-2025	
1	Course Code	HISEC-01	
2	Course Title	<i>Maratha History</i>	
3	Course Type	SEC	
4	Pre-requisite(if, any)	<i>As per Program</i>	
5	Course Learning Outcomes (CLO)	<ul style="list-style-type: none"> ➤ <i>Student will learn about the Maratha power emerge in in maharashtra in which condition.</i> ➤ <i>Students also gain knowledge the congyest of Shivaji, Shahji.</i> ➤ <i>They will learn the consolidation of Maratha power in the leader administration</i> ➤ <i>Maratha power under Peshawa's.</i> ➤ <i>The 3rd war of panipat & its impact on the History of India.</i> 	
6	Credit Value	02	<i>(Credit = 15 Hours - learning & Observation and 30 Hrs for Practices/ Field work)</i>
7	Total Marks	Max. Marks: 70+30=100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of Teaching-learning Periods 30 (01 Hr. per period)			
Module / Unit	Topics (Course contents)	No. of Period	
I	1. Causes for the rise of Maratha 2. Shahji Bhonsle	08	
II	1. Conguarence of Shivaji 2. Administration of Shivaji	07	
III	1. Peshawa Balaji Vishwanath 2. Peshawa Bajirao I	08	
IV	1. Peshawa Balaji Bajirao 2. Third war of Panipat	07	
Keywords		

Signature of Convener & Members:



PART-C

Learning Resources: Text Books, Reference Books and Others

Text Books Recommended –

1. मराठों का इतिहास – गोविन्द सखा राम सरदेसाई भाग एक व दो
2. इतिहास – डॉ. एस. आर. वर्मा
3. इतिहास – डॉ. ए. के. मित्तल
4. इतिहास – दहीभाते एवं पारिख
5. इतिहास – डॉ. सत्यनारायण दुबे

Online Resources–

- e-Resources / e-books and e-learning portals

Online Resources–

- e-Resources / e-books and e-learning portals

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

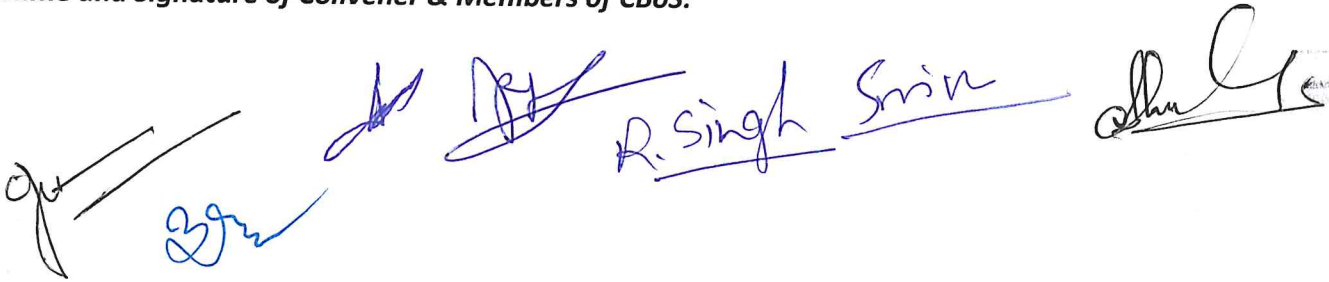
Maximum Marks: 50 Marks

Continuous Internal Assessment (CIA): 15 Marks

End Semester Exam (ESE): 35 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 10 & 10 Assignment/Seminar +Attendance - 05 Total Marks - 15	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
End Semester Exam (ESE):	Two section – A & B Section A: Q1. Objective – 05 x1= 05 Mark; Q2. Short answer type- 5x2 =10 Marks Section B: Descriptive answer type qts., 1out of 2 from each unit- 4x05 =20 Marks	

Name and Signature of Convener & Members of CBoS:

The image shows five handwritten signatures in blue ink. The most prominent signature is 'R. Singh Sinu'. To its right is another signature that appears to be 'Shu...'. To the left of 'R. Singh Sinu' are two more signatures, one of which is 'S...'. The signatures are written in a cursive style.

FOUR YEAR UNDERGRADUATE PROGRAM (2024-28)
DEPARTMENT OF SOCIOLOGY COURSE CURRICULUM

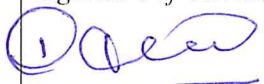



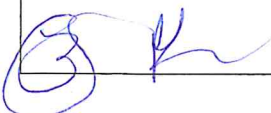


PART-A : INTRODUCTION		
PROGRAM: Bachelor in Arts (Certificate/Diploma/Degree/Honors)		SEMESTER –II/IV
SESSION:2024-25		
SUBJECT: SOCIOLOGY		
1	COURSE CODE:	SOSEC -01
2	COURSE TITLE:	ETHICS, POLITICS AND SKILL IN SOCIAL RESEARCH
3	COURSE TYPE:	SEC
4	Pre-requisite	As per Government norms
5	COURSE LEARNING OUTCOME (CLO):	<p>After completion of the course, the student will be able to achieve the following objectives-</p> <ul style="list-style-type: none"> • The student will be able to understand the fair practice of writing, ethics and politics in doing research. • Student will also get exposure to basic skill in handling computer for collection analysis and presentation of data.
6	CREDIT VALUE:	02(Credit= 15 Hour- Learning and observation)
7	TOTAL MARKS:	MAX MARKS:50 MIN PASS MARKS20

PART-B : CONTENT OF THE COURSE

Total Number of Teaching-Learning Periods(01 hr. Per Period)- 30 Period (30 Hours)

UNIT	TOPICS	No. of Periods
UNIT –I Ethics in Research	1. Ethics in doing field research 2. Plagiarism: Meaning, Types 3. Legal and Ethical Issues: Copyright and Intellectual Property Right 4. Politics and manipulation in data presentation	15
UNIT-II Basic Computer Skills in Research	1. M.S. word/google docs 2. M.S. excel/google sheet 3. M.S. power point/google sheet 4. Google form 5. Learning APA style for citation and referencing <ul style="list-style-type: none"> • (This unit will be practice based and the teacher is expected to introduce the students to different tools) 	15







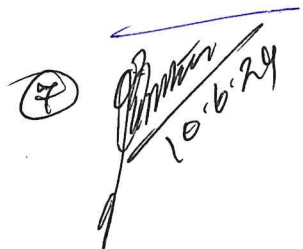
Signature of Convener & Members :

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PART-C : LEARNING RESOURCES ,REFERENCE BOOKS& OTHERS		
AUTHOR	TITLE	PUBLISHER
A.Bryman,	Social research method	Oxford university Press
American psychological 2019	Publication manual of American psychological Association	Washington, APA
Online Resources		
1	https://www.swayamprabha.gov.in/index.php	
2	https://vidymitra.inflibnet.ac.in/index.php	
3	https://epgp.inflibnet.ac.in/Home/ViewSubject	
4	https://descg.gov.in/	
5	https://www.egyankosh.ac.in/bitstream/123456789/88598/1/Unit3.pdf	
6	https://www.youtube.com/watch?v=BQeUuxIzsfU	

PART-D : ASSESSMENT ANDEVALUATION		
Suggested Continuous Evaluation Methods:		
Maximum Marks:		
	50 Marks	Continuous Internal Assessment (CIA):
	15 Marks	End Semester Exam (ESE):
	35 Marks	
Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test/Quiz-(2): 10&10 Assignment/Seminar- 05 Total Marks- 15	Better marks out of the two Test/Quiz + obtained marks in Assignments shall be considered against 15 Marks
End Semester Exam (ESE):	Two section - A & B Section A: Q1. Objective - 5x1=05 Mark; Q2. Short answer type - 5x2=10 Marks Section B: Descriptive answer type qts., 1 out of 2 from each unit - 2x10=20 Marks	

Name and Signature of Convener & Members of CBoS

① 
 ②  10.6.24
 ③ 
 ④ 
 ⑤  10.6.24
 ⑥ 
 ⑦  10.6.24

FOUR YEAR UNDERGRADUATE PROGRAM (2024-28)
DEPARTMENT OF ENGLISH
COURSE CURRICULUM

Part-A: Introduction			
Program: Bachelor in Arts/Commerce/Science (Certificate/Diploma/Degree/Honors)		Semester- II/IV/V/VI	
		Session: 2024-2025	
1.	Course Code	ENSEC 01	
2.	Course Title	Creative Writing	
3.	Course Type	SEC (Skill Enhancement Course)	
4.	Pre-requisite (if any)	<i>As per Programme</i>	
5.	Course Learning Outcome (CLO)	After Completion of the course the students will be able to: <ul style="list-style-type: none"> • Identify the basic concepts of creative writing. • Understand the craft of writing and writing process. • Employ various styles and techniques of writing and editing. • Assess and develop imagination. 	
6.	Credit Value	02 Credits (1C + 1C)	<i>Credit = 15 Hours – Theoretical learning and = 30 Hours Laboratory or Field learning / Training</i>
7.	Total Marks: 50	Max. Marks: 50	Min Passing Marks: 20
Part B Content of the Course			
Total No. of Teaching-learning Periods:			
Theory – 15 Periods (15 Hrs) and Lab. Or Field learning / Training 30 Periods (30 Hrs)			
Module	TOPICS (Course contents)	No. of Periods	
Theory Contents	<ul style="list-style-type: none"> • Introduction to Creative Writing- Meaning, Importance, Imagination & Writing. • Craft of Writing- Figure of Speech, Word Play, Character Creation • Steps of Creative Writing- Pre-Writing, Writing, Post-Writing/Final Draft • Types of Creative Writing- Poetry, Fiction, Non-Fiction (Life Narratives), Drama 	15	
Practical Training Contents	<ul style="list-style-type: none"> • Creative Writing & Media- Film Review, Book Review, Other Writings in Media. • Proof-reading & Editing- Practice sessions on Proofreading & Editing of different types of writing. • Learning to write Poetry- Reading & understanding Poetry; Practising tone, rhyme, metre, verses; Writing sessions • Learning to write Fiction- Reading & understanding Fiction; Practicing different elements of fiction (Short story, Novella, Novel); Writing sessions 	30	
Keywords: Creative Writing, Proof reading, Editing, Book review, Publication			
Signature of Convenor & Members of CBoS:			

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PART - C

Learning Resources: Text Books, Reference Books, and others

Reference Books:

1. Bell, Julia and Magrs, Paul. The Creative Writing Course-Book. London: Macmillan, 2001
2. Creative Writing: A Beginner's Manual Anjana Neira Dev. Anuradha Marwah, Swati Pal Delhi, Pearson Longman, 2009.
3. Companion to Creative Writing. Pune: Cambridge University Press India Ltd., 2012. Print.
4. Clark, Peter Roy. Writing Tools. USA: Hachette Book Group, 2008. Print.
5. Davidson, Chad. Writing Poetry: Creative and Critical Approaches. USA: Palgrave Macmillan, 2009. Print.
6. Earnshaw, Steven (Ed). The Handbook of Creative Writing. Edinburgh: EUP, 2007

Online Resources: e-Resources / e-books and e-learning portals

Online Resources

- http://www.chillibreeze.com/articles_various/creativewriter.asp
- <http://www.contentwriter.in/articles/writing/>
- <http://www.cbse.nic.in/cw-xii/creative-writing-xii-unit-1.pdf>
- <https://www.entrepreneur.com/article/247908>
- <https://www.locationrebel.com/b2b-writing/>
- <https://www.mindler.com/blog/how-to-become-a-content-writer-in-india/>

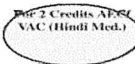
Part D – Assessment and Evaluation

Suggested Continuous Evaluation Methods-

Maximum Marks: 50 Marks
 Continuous Internal Assessment (CIA): **15 Marks**
 End Semester Exam (ESE): **35 Marks**

Internal Assessment-Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz – (2)10 & 10 Assignment / Seminar + Attendance – 05 Total Marks - 15	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
	Practical Training Sessions: On spot Assessment A. Task to be done on learned skills- 20 Marks B. Writing sessions based on Module II- 10 Marks C. Viva-Voce- 05 Marks	Managed by Coordinator as per skilling

Name and Signature of Convenor & Members of CBoS:



Four-year undergraduate course; 2024 - 28
Department of Political Science Course Curriculum

PART A INTRODUCTION			
PROGRAM: Bachelor in social science Certificate/Diploma/Degree/Honors		SEMESTER II	Session 2024-25
1	Course code	PSSEC 01	
2	Course Title	Public Opinion and Survey Research	
3	Course Type	SEC: Skill Enhancement Course	
4	Prerequisite (if,any)	As per Program	
5	Course Learning Outcomes (CLO)	After completion of the course, the student will be able to: <ul style="list-style-type: none"> • Develop the importance of public opinion in a democracy and the role of survey research in comprehending the working of a democratic political system • Assess the methods used for conducting surveys and interpreting survey data • Analyse techniques of data collection and analysis. • Interpret basic skill sets related to understanding public opinion formation and conducting research through the use of sample data, framing a questionnaire, etc. 	
6	Credit Value	2 Credit	Credit = 15 Hours - learning & Observation and 30 Hrs for Practices/ Field work
7	Total Marks	Max. Marks: 50	Min Passing Marks: 40%
PART B - Content of the Course			
Total No. of Teaching-Learning Periods (01 Hr. per period) 30 Period (30 Hours)			
UNIT	Topics (Course Content)		No of Periods
I	Voting Behaviour Public Opinion: Meaning, Definition, Concept, Characteristics, Means, Importance and Role in Democratic System Voting Behaviour : Meaning, Nature and Determinants of Voting Behaviour (in particular reference to India)		8
II	Survey Measuring Public Opinion with Surveys: Representation and sampling Sampling: Meaning and needs Sampling error. Types of sampling: Non random sampling: random sampling		7
III	Survey Research Interviewing: Interview techniques pitfalls, different types of and forms of interview Questionnaire: Question wording: fairness and clarity, types, steps, advantage, limitations		8
IV	Quantitative Data Analysis Introduction to quantitative data analysis, Basic concepts: correlational research, causation and prediction, descriptive and inferential Statistics Interpreting polls : Prediction in polling research: possibilities and pitfalls		7
Keywords : Public opinion, Voting Behaviour, Survey Research , Quantitative Data Analysis, Polls, Sampling			

Name and Signature of Convener & Members of BOS:

1. Dr. Abhishek - Convener
 2. Dr. Anurag Singh
 3. Dr. Anurag Singh
 4. Dr. Anurag Singh
 5. Dr. Anurag Singh
 6. Dr. Anurag Singh
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 28. Dr. Anurag Singh
 29. Dr. Anurag Singh
 30. Dr. Anurag Singh

PART C	Learning Resources: Text Books, Reference Books and Others
Text Books	
1- कोठारी सी.आर., शोध पद्धति, Newage international (P) LTD.,2022	
2- दास डी.के. लाल,सामाजिक शोध: सिद्धांत एवं व्यवहार,रावत पब्लिकेशन्स, 2017	
3- यादव राम गणेश, सामाजिक अनुसंधान पद्धतियां,ओरिएंट ब्लैक स्वान,2014	
4- आहूजा राम,सामाजिक सर्वेक्षण एवं अनुसंधान, रावत पब्लिकेशन्स, 2003	
5- शर्मा शशि,राजनीतिक समाजशास्त्र की रूपरेखा, पीएचई लर्निंग प्राइवेट लिमिटेड,2010	
6- कुमार,संजय व राय,प्रवीण, भारत में मतदान व्यवहार का मापन, सेज पब्लिकेशन्स,2018	
Reference books	
7- G. Gallup,(1948) A guide to public opinion polls,Princeton University Press, 1948.	
8- S. Kumar and P. Rai, (2013) 'Chapter 1', in Measuring Voting Behaviour in India, New Delhi: Sage.	
Online resource : e- books	
1- http://hdl.handle.net/123456789/11200 (English),Survey Research, e-gyankosh,IGNOU,New Delhi	
2- http://hdl.handle.net/123456789/30598 (हिन्दी),सर्वेक्षण शोध,e-gyankosh,IGNOU,New Delhi	
3- http://hdl.handle.net/123456789/30595 (हिन्दी),सर्वेक्षण शोध,e-gyankosh,IGNOU,New Delhi	
4- http://hdl.handle.net/123456789/30594 (हिन्दी),सर्वेक्षण शोध,e-gyankosh,IGNOU,New Delhi	
5- http://hdl.handle.net/123456789/30593 , (हिन्दी),सर्वेक्षण शोध,e-gyankosh,IGNOU,New Delhi	

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50 Marks

Continuous Internal Assessment (CIA): 15 Marks

End Semester Exam (ESE): 35 Marks

Continuous Internal Assessment (CIA): (By Course Coordinator)	Internal Test / Quiz-(2): 10 & 10 Assignment/Seminar +Attendance - 05 Total Marks - 15	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
End Semester Exam (ESE):	Laboratory / Field Skill Performance: On spot Assessment A. Performed the Task based on learned skill - 20 Marks B. Spotting based on tools (written) - 10 Marks C. Viva-voce (based on principle/technology) - 05 Marks	Managed by Coordinator as per skilling

Name and Signature of Convener & Members of BOS:

① डॉ. विपिन शर्मा - Convener

② कु. शबरी देवी Begum 10-06-24

③ Member 10-06-24

④

Sh
10/06/2024Dr. Vinay
10-06-24

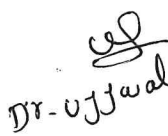
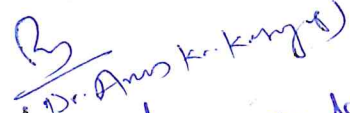
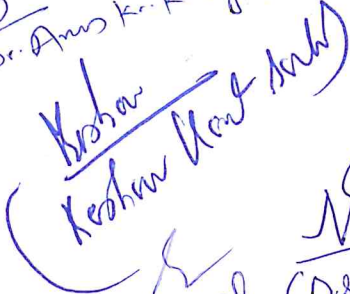
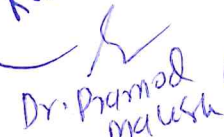


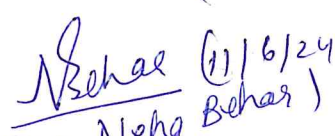
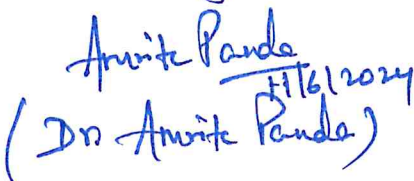
Dr. Vinay

Dr. Vinay

**FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
COURSE CURRICULUM**

PART A: INTRODUCTION			
Program: Certificate Course		Semester- I Sem	Session: 2024-25
1	Course Code	AEC 01	
2	Course Title	Environmental Studies	
3	Course Type	Ability Enhancement Course (AEC)	
4	Prerequisite (If Any)	As per requirement	
5	Course Outcome (CO)	At the end of this course, students will be able to – CO 01: relate the basic concept of the environment CO 02: explain environmental alterations CO 03: develop skills in environmental measurement CO 04: examine correction measures of the environment	
6	Credit Value	02 C	01 Credit = 15 Hrs. Teaching-Learning
7	Total Marks	Max. Marks: 50	Minimum Pass marks: 20
PART: B CONTENT OF THE COURSE			
Total No. of Teaching-Learning Periods: 30Hours/ 30Periods			
UNIT	TOPIC (Course Contents)		No. of Hours
I	Basic Composition: 1. Abiotic and Biotic components of the environment 2. Biodiversity—Concept, types, and measures about its protection 3. Basic concept of Bio-Geo Chemical Cycle 4. Energy Flow in an ecosystem		07
II	Alterations in Environment: 1. Concept and components of the pond ecosystem 2. Air pollution and measures for its control 3. Water pollution and measures for its control 4. Global warming, Climate change, and possible measures		07
III	Measurements of Environmental Components 1. Soil composition and methods of its analysis 2. Water analysis methods for DO, BOD, COD 3. Water analysis methods for pH, TDS, Turbidity, Salinity, and Alkalinity 4. Information about environmental factors—PM-10, PM-2.5, NO ₂ , O ₃		08
IV	Application Measures 1. Useful microbes to control water pollution 2. Useful microbes to control soil pollution 3. Concept of Biodegradation 4. Concept of Phytoremediation		08
Key Words	Ecosystem, Pollution, Climate Change, Biodegradation		

Name and Signature of Convener and Members of CBOS

 Dr. Ujjwal Saha
 Dr. Anuska K. Kung'u
 Keshav Khatwani
 Dr. Pramod Malush
 Dr. Sanjana Bhagat
 Dr. Shironi Sh
 Dr. Neha Behar
 Dr. Anvite Panda

PART-C: Learning Resources

Text Books, Reference Books, and Others

Text Books Recommended –

1. Ecology and Environment, 8th Edition, P.D.Sharma, Rastogi Publication, Meerut.
2. Environmental Biology, 2nd Edition, P.D.Sharma, Rastogi Publication, Meerut.
3. Environmental Biology and Toxicology, 2nd Edition, P.D.Sharma, Rastogi Publication, Meerut.
4. Environmental Studies, 1st Edition, S.V.S.Rana, Rastogi Publication, Meerut.
5. Environmental Biotechnology, 1st Edition, S. V. S. Rana, Rastogi Publication, Meerut.

Online Resources–

- e-Resources / e-books and e-learning portals

Online Resources–

- e-Resources / e-books and e-learning portals

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50 Marks

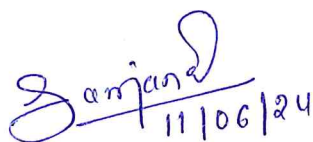
Continuous Internal Assessment (CIA): 15 Marks

End Semester Exam (ESE): 35 Marks

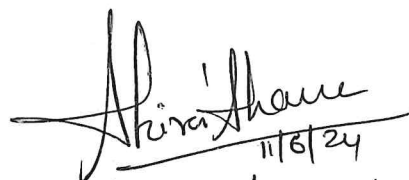
Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2):	10 & 10	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
	Assignment/Seminar +Attendance -	05	
	Total Marks -	15	

End Semester Exam (ESE):	Two sections – A & B Section A: Q1. Objective – 05 x1= 05 Mark; Q2. Short answer type- 5x2 =10 Marks Section B: Descriptive answer type qts., 1out of 2 from each unit- 4x05 =20 Marks
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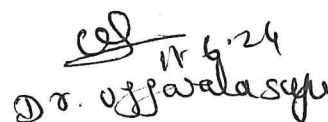
Name and Signature of Convener & Members of CBoS:


11/06/24

(Dr. Sanjani Bhagat)

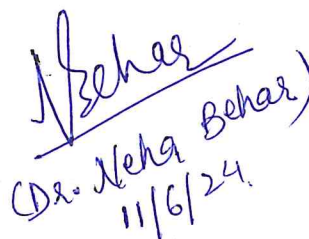

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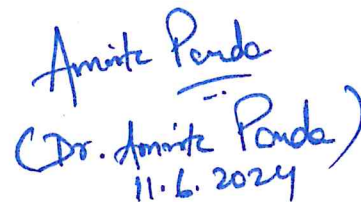
(Dr. Shivani Sharma)



11/6/24
Dr. Ujjwal Singh

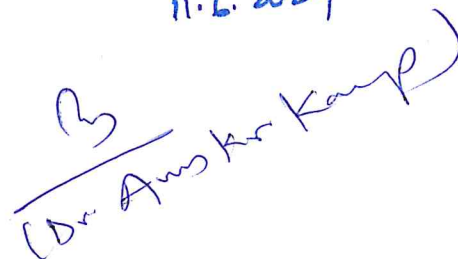

11/06/24

(Dr. Shubha Diwan)


11/6/24
Dr. Neha Behar


11.6.2024
Dr. Amite Pande


Dr. Pramod Kumar Mahesh


Dr. Anurag Kaur