

Dr. Bhimrao Ambedkar Govt. College, Pamgarh, Dist. Janjgir – Champa (C.G.)
495554



(Affiliated to Shaheed Nandkumar Patel Vishwavidhyalaya, Raigarh (C.G.)

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List of Departments with Programme Outcome, Programme Specific Outcome and Course Outcome.

S. No.	Name of the Department
1	English.
2	Hindi.
3	Sociology.
4	Commerce.
5	Botany.
6	Chemistry.
7	Mathematics.
8	Physics.
9	Zoology.
10	Political Science.
11	Geography.
12	Postgraduate diploma in Computer Application.

Jahnu
PRINCIPAL
Dr. Bhimrao Ambedkar Govt. College
Pamgarh, Dist. Janjgir Champa (C.G.)

PROGRAMME OUTCOMES, PROGRAMME SPECIFIC OUTCOMES AND COURSE OUTCOMES

PROGRAMME OUTCOMES (B.A. with English Literature as an Optional Subject)

- PO-1. To impart knowledge of English Language and English Literature among students.
PO-2. To enable the students to transform the knowledge of English in their day-to-day life.
PO-3. To develop in students the basic skills of LSRW.
PO-4. To inculcate in students that English is easy to learn like other languages so there is no need to afraid of learning it.
PO-5. To create rational approach among the student to face the challenges in life.
PO-6. To make them able to get success in various competition exams.

PROGRAMME SPECIFIC OUTCOMES (B.A. with English Literature as an Optional Subject)

On completion of the Programme the students will be able to-

- PSO-1. Use correct English in oral as well as written form.
PSO-2. Use English effectively in formal and informal situations.
PSO-3. Understand the unique importance of English that has played a crucial role in building the modern India.
PSO-4. Develop language learning skills like Listening, Speaking, Reading and Writing.
PSO-5. Develop vocabulary and communicative skills.
PSO-6. Understand the real meaning and value of intellectual discipline.
PSO-7. Understand major and minor forms of literature.
PSO-8. Understand the values of literature in life.
PSO-9. Enjoy reading Poems, Plays, Novels and Short Stories.
PSO-10. Interpret the literary works by critical analysis.
PSO-II. Understand different cultures of the times.
PSO-12. Know various genres in English literature like Indian English literature, British literature and American literature.
PSO-13. Compare literary works of the great writers and philosophers by using their logic and literary competency.
PSO-14. Appear for Competitive Examinations.
PSO-15. Get jobs in Public and Private Sectors.
PSO-16. Undertake Teaching career in School level.
PSO-17. Inculcate the human values for one's transformation of behaviour.
PSO-18. Nurture themselves in Soft Skills.
PSO-19. Continue for their further education.

COURSE OUTCOMES (B.A. with English Literature as an Optional Subject)

S. No.	Name of Course	Year/Semester	Name of Subject/Paper	Course Outcome
1.	B.A./ B.Sc./ B. Com.	1	Foundation Course, English Language	1. To give the Students a first-hand knowledge of Historical and Cultural Heritage of India. 2. To enrich the vocabulary of students by various exercises. 3. To develop in students the basic skills of LSRW. 4. To make them able to write a Paragraph on given topics. 5. To make them able to write Formal and Informal Letters. 6. To make them able to solve the Grammatical questions.

2.	B.A./ B.Sc./ B. Com.	2	Foundation Course, English Language	<ol style="list-style-type: none"> 1. To give the Students a first-hand knowledge of Major Scientists of India and their contribution in Scientific Research. 2. To enrich the vocabulary of students by various exercises. 3. To develop in students the basic skills of LSRW. 4. To make them able to write Report on given topics. 5. To make them able to write Precis of given passage. 6. To make them able to solve the Grammatical questions.
3.	B.A./ B.Sc./ B. Com.	3	Foundation Course, English Language	<ol style="list-style-type: none"> 1. To give the Students a first-hand knowledge of Aspects of Developments in India. 2. To enrich the vocabulary of students by various exercises. 3. To develop in students the basic skills of LSRW. 4. To make them able to write Essay on given topics. 5. To make them able to write a Precis of given passage. 6. To make them able to solve the Grammatical questions.
4.	B.A.	1	English Literature (Paper-I) Literature in English from 1550-1750	<ol style="list-style-type: none"> 1. To give the Students a first-hand knowledge of Major Writers and their Works of the Period. 2. To introduce the Students about the Various Historical and Literary Topics of the period. 3. To provide them with knowledge of the Political, Economic, Social, Intellectual and Literary background so as to enable them to study the works of representative writers of the period. 4. To examine the works of Selected Writers of the period.
5.	B.A.	1	English Literature (Paper-II) Literature in English from 1750-1900	<ol style="list-style-type: none"> 1. To give the Students a first-hand knowledge of Major Writers and their Works of the Period. 2. To introduce the Students about the Various Historical and Literary Topics of the period. 3. To provide them with knowledge of the Political, Economic, Social, Intellectual and Literary background so as to enable them to study the works of representative writers of the period. 4. To examine the works of Selected Writers of the period.
6.	B.A.	2	English Literature (Paper-I) Modern English Literatures	<ol style="list-style-type: none"> 1. To give the Students a first-hand knowledge of Major Writers and their Works of the Period. 2. To introduce the Students about the Various Literary Terms. 3. To provide them with knowledge of the Political, Economic, Social, Intellectual and Literary background so as to enable them to study the works of representative writers of the period. 4. To examine the works of Selected Writers of the period.
7.	B.A.	2	English Literature (Paper-II) Modern English Literatures	<ol style="list-style-type: none"> 1. To give the Students a first-hand knowledge of Major Writers and their Works of the Period. 2. To introduce the Students about the Various Literary Terms. 3. To provide them with knowledge of the Political, Economic, Social, Intellectual and Literary background so as to enable them to study the works of representative writers of the period. 4. To examine the works of Selected Writers of the period.
8.	B.A.	3	English Literature (Paper-I) Indian Writing in English	<ol style="list-style-type: none"> 1. To give the students a first-hand knowledge of Major Indian English Writers and their Works. 2. To provide them with knowledge of the Political, Economic, Social and Intellectual background so as to enable them to study the works of Major Indian Writers in English. 3. To examine the works of Major Indian Writers in English.
9.	B.A.	3	English Literature (Paper-11 Optional-A) American Literature	<ol style="list-style-type: none"> 1. To give the students a first-hand knowledge of Major American Writers and their Works. 2. To provide them with knowledge of the Political, Economic, Social and Intellectual background so as to enable them to study the works of Major American Writers. 3. To examine the works of Selected American Writers.
10.	B.A.	3	English Literature (Paper-11 Optional-B) 20 th Century Literature in English	<ol style="list-style-type: none"> 1. To give the students a first-hand knowledge of Major Writers of 20th Century. 2. To examine and analyse the works of Selected Writers of 20th Century.

**PROGRAMME OUTCOMES
(M.A. ENGLISH)**

- PO-1. To impart knowledge of English Language and English Literature among students in advanced level.
 PO-2. To enable the students to transform the knowledge of English in their day-to-day life.
 PO-3. To develop in students the basic skills of LSRW.
 PO-4. To attain good knowledge that includes the understanding of recent developments in language and literature.
 PO-5. To motivate to make assignments, prepare and present papers and write articles.
 PO-6. To create rational approach among the student to face the challenges in life.
 PO-7. To make them able to get success in various competition exams.

**PROGRAMME SPECIFIC OUTCOMES
(M.A. ENGLISH)**

- On completion of the Programme the students will be able to-
- PSO-1. Use correct English in oral as well as written form.
 PSO-2. Use English effectively in formal and informal situations.
 PSO-3. Develop language learning skills like Listening, Speaking, Reading and Writing.
 PSO-4. Develop vocabulary and communicative skills.
 PSO-5. Understand the real meaning and value of intellectual discipline.
 PSO-6. Understand major and minor forms of literature.
 PSO-7. Understand the values of literature in life.
 PSO-8. Enjoy reading Poems, Plays, Novels and Short Stories.
 PSO-9. Interpret the literary works by critical analysis.
 PSO-10. Understand different cultures of the times.
 PSO-11. Know various genres in English literature like Indian English literature, British literature, American literature, Post Colonial Literature, and Dalit Literature.
 PSO-12. Compare literary works of the great writers and philosophers by using their logic and literary competency.
 PSO-13. To understand the relations between culture, history and texts.
 PSO-14. Appear for Competitive Examinations.
 PSO-15. Get jobs in Public and Private Sectors.
 PSO-16. Undertake Teaching career in College and University level.
 PSO-17. Inculcate the human values for one's transformation of behaviour.
 PSO-18. Nurture themselves in Soft Skills.
 PSO-19. Develop research aptitude and to qualify for M. Phil and Ph. D. Programmes.

**COURSE OUTCOMES
(M.A. ENGLISH)**

11.	M.A. English	Semester-I	(Paper-I) Poetry (From Chaucer to Blake)	1. To give the Students a first-hand knowledge of Major Poets and their Works of the Period. 2. To introduce the Students about the Various Forms of Poetry such as- Epic, Elegy, Ode, Sonnet, Lyric, Ballad etc. 3. To provide them with knowledge of the Political, Economic, Social, Intellectual and Literary background so as to enable them to study the works of representative poets of the period.
12.	M.A. English	Semester-I	(Paper- II) Drama	1. To give the Students a first-hand knowledge of Major Dramatists and their Works of the Period. 2. To introduce the Students about the Various Forms of Drama such as- Historical Play, Tragedy, Comedy, Tragi-comedy, Comedy of Manners etc. 3. To provide them with knowledge of the Political, Economic, Social, Intellectual and Literary background so as to enable them to study the works of representative Dramatists of the period.

13.	M.A. English	Semester-I	Prose	<ol style="list-style-type: none"> 1. To give the Students a first-hand knowledge of Major Essayists and their Works of the Period. 2. To introduce the Students about the Development of English Essay from Elizabethan Age to Victorian Age. 3. To provide them with knowledge of the Political, Economic, Social, Intellectual and Literary background so as to enable them to study the works of representative Essayists of the period.
14.	M.A. English	Semester-I	(Paper- IV) Fiction	<ol style="list-style-type: none"> 1. To give the Students a first-hand knowledge of Major Novelists and their Works of the Period. 2. To introduce the Students about the Development of English Fiction from Puritan Age to First Half of Twentieth Century. 3. To provide them with knowledge of the Political, Economic, Social, Intellectual and Literary background so as to enable them to study the works of representative Novelists of the period.
15.	M.A. English	Semester-1 I	Paper- I) Poetry	<ol style="list-style-type: none"> 1. To give the Students a first-hand knowledge of Major Poets and their Works of the Period. 2. To introduce the Students about the Development of English Poetry from Romantic Age to Victorian Age. 3. To provide them with knowledge of the Political, Economic, Social, Intellectual and Literary background so as to enable them to study the works of representative poets of the period.
16.	M.A. English	Semester-II	(Paper- II) Drama	<ol style="list-style-type: none"> 1. To give the Students a first-hand knowledge of Major Dramatists and their Works of the Period. 2. To introduce the Students about the Development of English Drama from Augustan Age to First Half of Twentieth Century. 3. To provide them with knowledge of the Political, Economic, Social, Intellectual and Literary background so as to enable them to study the works of representative Dramatists of the period.
17.	M.A. English	Semester-II	Modern Literature (Paper- III) (Poetry & Prose)	<ol style="list-style-type: none"> 1. To give the Students a first-hand knowledge of Major Essayists and their Works of the Period. 2. To introduce the Students about the Development of English Poetry and Prose of Modern Age. 3. To provide them with knowledge of the Political, Economic, Social, Intellectual and Literary background so as to enable them to study the works of representative Poets and Essayists of the period.
18.	M•A• English	Semester-II	(Paper- IV) Fiction and Short Stories	<ol style="list-style-type: none"> 1. To give the Students a first-hand knowledge of Major Novelists and their Works of the Period. 2. To introduce the Students about the Development of English Fiction and Short Stories from Second Half of Twentieth Century to Modern Age. 3. To provide them with knowledge of the Political, Economic, Social, Intellectual and Literary background so as to enable them to study the works of representative Novelists and Short Story Writers of the period.
19.	M.A. English	Semester— III	(Paper- I) Critical Theories	<ol style="list-style-type: none"> 1. To give the Students a first-hand knowledge of Major Literary Critics and their Literary Theories. 2. To examine the works of the Key Critics in this discipline. 3. To build-up in the students the Aesthetics of English Literature. 4. To examine the various Literary Terms and Concepts in this discipline.
20.	M.A. English	Semester- III	(Paper- II) Indian Literature	<ol style="list-style-type: none"> 1. To give the students a first-hand knowledge of Major Indian English Writers and their Works. 2. To provide them with knowledge of the Political, Economic, Social and Intellectual background so as to enable them to study the works of Major Indian Writers in English. 3. To examine the works of Major Indian Writers in English.
21.	M.A. English	Semester- III	(Paper- III) American Literature	<ol style="list-style-type: none"> 1. To give the students a first-hand knowledge of Major American Writers and their Works. 2. To provide them with knowledge of the Political, Economic, Social and Intellectual background so as to enable them to study the works of Major American Writers. 3. To examine the works of Major American Writers.
22.	M.A. English	Semester- III	(Paper- IV) Optional (A) History of	<ol style="list-style-type: none"> 1. To give the students a first-hand knowledge of History and Development of English Literature. 2. To provide them with knowledge of the Political, Economic, Social and Intellectual background so as to enable them to study the

			English Literature	Chief Characteristics of the Various Ages in English Literature. 3. To examine the Various Trends in English Literature. 4. To analyse the Works of Representative Writers of the Age.
23.	M.A. English	Semester-III	(Paper- IV) Optional (B) Linguistics	1. To give the students a first-hand knowledge about the History of English Language. 2. To introduce to the students the Broad Areas of Linguistics. 3. To strengthen Linguistic Competence and Performance of the students.
24.	M.A. English	Semester-IV	(Paper- I) Literature in Translation	1. To give the students a first-hand knowledge of Literary Translation. 2. To introduce to the students about the Notable Indian Writers and their Works. 3. To examine Selected Indian Writers' works translated in English.
25.	M.A. English	Semester-IV	(Paper- II) Diaspora and Dalit Literature	1. To give the students a first-hand knowledge of Diaspora and Dalit Writers. 2. To examine and analyse the works of Selected Diaspora Writers. 2. To examine and analyse the works of Selected Dalit Writers.
26.	M.A. English	Semester-IV	(Paper- III) World Literature	1. To give the students a first-hand knowledge of World Famous Literature in English. 2. To examine and analyse the works of Selected World Famous Writers in English.
27.	M.A. English	Semester-IV	(Paper- IV) Optional (A) Colonial and Post Colonial Literature	1. To introduce to the students about the Concept of Colonialism and Post-colonialism. 2. To examine and analyse the works of Selected Colonial and Post-colonial Writers.
28.	M.A. English	Semester-IV	(Paper- IV) Optional (B) Gender Studies	1. To introduce to the students about the Concept of Gender Studies in Literature. 2. To examine and analyse the Concept of Sex and Gender, Feminist Criticism and Various Gender based Discriminations against Women in the World. 3. To examine and analyse the Works of Selected Feminist Writers. 4. To aware the students about the Social evils like Sati, Dowry, Child Marriage, Rape, Female Foeticide, Prostitution etc.
29.	M.A. English	Semester-IV	(Paper- IV) Optional (C) Contemporary Theories of Criticism	1. To introduce to the students about the Various Contemporary Theories of Criticism. 2. To analyse the theory of New Criticism, Formalism, Feminism, Marxism, Structuralism, Post-structuralism, New Historicism and Reader Response Theory.

Program	Course	OutCome
बी. ए. प्रथम वर्ष	<p>आधार पाठ्यक्रम हिन्दी भाषा— पुस्तक का नाम— भारतीयता के अमर स्वर प्रो. धनंजय वर्मा पल्लवन, पत्राचार, ज्ञान, पर्यायवाची, देवनगरी लिपि की विशेषताएं, वर्तनी मानक रूप कम्प्यूटर में हिन्दी का अनुप्रयोग, हिन्दी में पदनाम हिन्दी अपभ्रंश, संक्षेपण, हिन्दी में संक्षिप्तीकरण।</p> <p>ईदगाह कहानी —प्रेमचंद भालेराम का जीव— हरिशंकर परसाई, शिकांगो से स्वामी विवेकानंद का पत्र मानक हिन्दी भाषा का अर्थ, स्वरूप— विशेषताएं, मानक अमानक भाषा, सामाजिक गतिशीलता, प्राचीनकाल, मध्यकाल, आधुनिक काल।</p>	<p>पल्लवन, पत्राचार एवं व्याकरण की जानकारी छात्र— छात्राओं की दी गई। जिससे अनेक शब्द ज्ञान की वृद्धि हुई और मानक—अमानक के द्वारा भाषा की ।</p> <p>छात्र— विकास हुआ। ईदगाह कहानी से छात्र—छात्राओं को सम्मान, प्रेम एवं कर्तव्य निष्ठता के गुणों को विकसित किया गया। सामाजिक गतिशीलता के माध्यम से प्राचीन, मध्य एवं आधुनिक काल का परिचय दिया गया जिससे छात्रों में ऐतिहासिकता, मानवीयता, आदि गुणों को विकसित किया गया।</p>

Program	Course	OutCome
बी. ए. w वर्ष	<p>हिन्दी साहित्य</p> <p>प्रथम प्रश्न पत्र- प्राचीन हिन्दी काव्य- पेपर कोड डॉ. कांति कुमार जैन</p> <p>पाठ्यक्रम-</p> <p>1. - साखी</p> <p>2.संक्षिप्त पद्मावत- नागमति का वियोग वर्णन-30 भ्रमक गीत सार, सूरदास प्रारंभिक-5 पद</p> <p>4. प्रारंभिक 25 पद दोहे चौपाई-छंद</p> <p>5.घनानंद प्रारंभिक 25 छंद-द्रुत पाठ हेतु तीन -रसखान</p> <p>द्वितीय प्रश्न पत्र</p> <p>गबन उपन्यास प्रेमचंद- कथा साहित्य-</p> <p>हिन्दी कथा का विकास आकाशदीप, कफन, पर्दा, ठेस, मलवे का मालिक, चीफ की दखत, बिरादरी बाहर गदल</p>	<p>कबीर के जीवनवृत्त, उनके नीतिगत उपदेशों की जानकारी छात्र-छात्राओं को उपलब्ध कराई गई। कबीर की साखियों के माध्यम से समाज में फैली कुरितियां, छूआछूत, अंधविश्वास आदि को दूर करने की शिक्षा दी गई।</p> <p>जायसी के संक्षिप्त पद्मावत के द्वारा छात्र-छात्राओं को ऐतिहासिकता एवं आध्यात्मिकता की लौकिक एवं अलौकिक प्रेम की पराकाष्ठा प्रेम में समर्पण की भावना जैसे गुणों को बताया गया तुलसी दास के काव्य से धर्म,कर्म, नीति, त्याग एवं समर्पण की भावना । त्याग एवं समर्पण की भावना का संचार किया गया।</p> <p>गबन उपन्यास के माध्यम से रिश्तों की खोरी एवं भ्रष्टाचार की समस्याओं से अवगत कराया गया। कथा बाह्य ।</p>

Program	Course	OutCome
बी. ए. द्वितीय	<p>प्रथम - काव्य (- 0173)</p> <p>पाठ्यक्रम- 1. - भारत भारती की कविताएं</p> <p>2.सूर्यकांत त्रिपाठी निराला- सखि बसंत आया, वर दे वीणा वादिनी, हिन्दी के सुमनों के प्रति पत्र ।</p> <p>3. सुमित्रानंदन पंत- बादल, परिवर्तन-2 पद, ताज भारती</p> <p>4. माखनलाल चतुर्वेदी- , बलि पंथी से उलाहना, सांझ और ढोलक की थापें, मैं बेच रही हूँ दही।</p> <p>5. अज्ञेय- सबरे उठा तो धूप खिली थी, साम्राज्ञी का नैवेद्यदान, घर, चांदनी जी लो, दूर्वाचल।</p> <p>द्रुतपाठ-</p> <p>1. अधोध्या सिंह उपाध्याय हरिऔध</p> <p>2. सुभद्रा कुमारी चौहान</p> <p>3. श्रीकांत वर्मा</p>	<p>अर्वाचीन हिन्दी काव्य का अध्ययन आधुनिकता की समस्त विशेषताओं को समेटे हुए है। साहित्य की विकास यात्रा, आधुनिक भाव बोध का ज्ञान छात्र-छात्राओं को होता है।</p> <p>स्वतंत्रता प्राप्ति के पूर्व की भाव, भाषा शिल्प की जानकारी प्राप्त होती है।</p> <p>राष्ट्रीयता एवं राष्ट्रप्रेम की भावना, त्याग, बलिदान की भावना जागृत करने में राष्ट्रीय काव्य धारा की कविताएं सक्षम है।</p> <p>छायावादी, प्रगतिवादी एवं प्रयोगवादी अनुचितन विद्यार्थियों के लिए उपयोगी है</p>

	<p>हिन्दी साहित्य द्वितीय प्रश्न पत्र अन्य गद्य विधाएं 0174</p> <p>पाठ्यक्रम— नाटक— अंधेर नगरी—भारतेन्दु हरिश्चंद्र निबंध— क्रोध— आचार्य रामचंद्र शुक्ल बसंत— डॉ. हजारी प्रसाद द्विवेदी उस अमराई ने राम—राम कही है। डॉ. विद्यानिवास मिश्र काव्येषु नाट्यम रम्यम— बाबू गुलाबराय बेईमानी की परत— परसाई</p> <p>एकांकी— औरंगजेबकी आखिरी रात डॉ. रामकुमार वर्मा स्ट्राईक— भुवनेश्वर एक दिन— लक्ष्मीनारायण मिश्र दस हजार— उदयशंकर भट्ट मम्मी ठकुराईन—डॉ. लक्ष्मीनारायण लाल</p> <p>द्रुतपाठ— राहुल सांकृत्यायन, महादेवी वर्मा, हबीब तनवीर</p>	<p>अंधेर नगरी के माध्यम से भारतेन्दु हरिश्चन्द्र जी ने ब्रिटिश शासन की अव्यवस्था अत्याचार, रिश्वतखोरी और शोषण को प्रतीकात्मक रूप में प्रस्तुत किया है। वैचारिक निबंध ललित निबंध तथा व्यंग्य विधा की जानकारी प्राप्त होती है।</p> <p>भारतीय ग्राम्य परिवेश में अमराई की महत्ता और उसकी धीरे-धीरे नष्ट होती संस्कृति की ओर ध्यान आकृष्ट किया गया है।</p> <p>पाठ्य एकांकी के माध्यम से जीवन नश्वरता, विक्षिप्त मानसिक स्थिति, आधुनिक मानव जीवन की पद्धति, कृपणता,</p> <p style="text-align: right;">।</p>
<p>बी.ए., बी.एस.सी. /बी.कॉम, द्वितीय—</p>	<p>—0171 इकाई 1. चोरी — महात्मा गांधी कायालयीन भाषा, मीडिया की भाषा इकाई 2. युवकों का समाज में स्थान— आचार्य</p>	<p>के साथ-साथ व्यक्तित्व विकास होता है। व्याकरणिक एवं भाषा विषयक पाठ्यक्रम के माध्यम से हिन्दी भाषा संबंधित ज्ञान में अभिवृद्धि होती है। प्रतियोगी परीक्षाओं की दृष्टि से ज्ञानार्जन होता है।</p>

	<p>नरेन्द्र देव— वित्त एवं वाणिज्य की भाषा मशीनी भाषा</p> <p>इकाई 3. मातृभूमि—वासुदेवशरण अग्रवाल संज्ञा, सर्वनाम, विशेषण, क्रिया विशेषण</p> <p>इकाई 4. डॉ. खूबचंद बघेल हरिठाकुर/समास— संधि</p> <p>इकाई 5. संभाषण कुशलता— पं. माधव राम सप्रे अनुवाद अंग्रेजी से हिन्दी में अनुवाद संक्षिप्तियां</p>	<p>भाषा की संरचना का ज्ञान होता है।</p>
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Program	Course	OutCome
बी. ए. तृतीय वर्ष	<p>हिन्दी साहित्य- प्रथम प्रश्न पत्र- जनपदीय भाषा- साहित्य (छत्तीसगढ़ी)</p> <p>पाठ्य विषय</p> <ol style="list-style-type: none"> भूमिका (अ) छत्तीसगढ़ी साहित्य की विकास यात्रा (ब) छत्तीसगढ़ी भाषा एक परिचय संत धर्मदास के पद सीख-सीख के गोठ विनय पाठक (छत्तीसगढ़ी कविता) मुकुन्द कौशल (छत्तीसगढ़ी गजल) <p>द्वुतपाठ</p> <ol style="list-style-type: none"> रामचन्द्र देशमुख 	<p>जनपदीय भाषा विकास की ओर अग्रसर हो रही है, अस्तु इस भाषा का और इसमें रचित साहित्य का इतिहास विकास स्पष्ट करते, इनसे संबंधित प्रमुख रचनाकारों का आलोचनात्मक अनुशीलन करना हिन्दी के वृहन्त हित में होगा।</p> <p>छत्तीसगढ़, अंचल के विविध स्वरूप, ऐतिहासिक पृष्ठभूमि, सांस्कृतिक स्थिति एवं, लोक-जीवन की विशिष्टताओं का रेखांकन, जनपदीय भाषा छत्तीसगढ़ी के है।</p> <p>मार्गदर्शक की भूमिका का भी निर्वाह करता है।</p>

Program	Course	OutCome
बी. ए. तृतीय वर्ष	<p>(द्वितीय प्रश्न-पत्र)</p> <p>हिन्दी भाषा-साहित्य का इतिहास तथा काव्यांग विवेचन</p> <p>पाठ्य विषय-</p> <p>(क) हिन्दी भाषा का स्वरूप विकास-</p> <p>1. बोलचाल की भाषा 2. रचनात्मक भाषा</p> <p>3. राष्ट्रभाषा 4. राज भाषा</p> <p>5. सम्पर्क भाषा 6. संचार भाषा</p> <p>हिन्दी का शब्द भण्डार- तत्सम, तद्म देश आगत शब्दावली।</p> <p>—</p> <p>रस, छंद, अलंकार</p>	<p>हिन्दी भाषा का इतिहास जितना प्राचीन है, उतना ही गूढ़ गहन भी। इसमें रचित साहित्य ने लगभग डेढ़ हजार वर्षों का इतिहास पूरा कर लिया है। इसलिए हिन्दी भाषा और साहित्य के ऐतिहासिक विवेचन की बड़ी आवश्यकता है। इसी के साथ-साथ हिन्दी ने अपना जो स्वतंत्र साहित्य शास्त्र निर्मित किया है, उसे भी रूपायित करने की आवश्यकता है। इसके संज्ञान द्वारा विद्यार्थी की मर्मग्राहिणी प्रतिभा का विकास होगा और ऐतिहासिक प्ररिप्रेक्ष्य में शुद्ध साहित्यिक विवेक का सन्निवेश होगा।</p>

Program	Course	OutCome
बी. ए., बी.कॉम, बी. एस.सी. तृतीय वर्ष	<p>आधार पाठ्यक्रम- हिन्दी भाषा पाठ्य विषय-</p> <p>भारतमाता- पंत, परशुराम की प्रतीक्षा- दिनकर, बहुत बड़ा सवाल- मोहन राकेश, संस्कृति और राष्ट्रीय एकीकरण-योगेश अटल -कथन की शैलिया -विकासशील देशों की समस्यायें -विभिन्न संरचानायें -आधुनिक तकनीकी सम्यायें -कार्यालयीन पत्र और आलेख -जनसंख्या -अनुवाद -ऊर्जा और शक्तिमानता का अर्थशास्त्र -घटनाओं, समारोहों आदि का प्रतिवेदन और विभिन्न प्रकार के निमंत्रण-पत्र</p>	<p>राष्ट्रीय भाव बोध जागृत करने में सक्षम, संस्कृति, परम्परा के साथ-साथ सम-सामयिक समस्याओं को सामने लाकर, समाधान परख बुद्धि के विकास में पाठ्य- विषय सहायक है। इसके अतिरिक्त व्याकरण पक्ष पर भी ध्यानाकृष्ट करके हिन्दी के शुद्धि- लेखन को प्रोत्साहित किया गया है।</p>

Department Of Sociology

B.A. (Graduate)

Programme Specification Outcomes

On Completion Of The Student Will Be Able To —

- PS01- Provide Basic knowledge Of Sociology-Indian Society Tribble Society, Crime And research Methology
- PS02- Understand Deferent problem Of Society- Alcoholism, Drug, Addiction, Poverty , Illiteracy.
- PS03- Understand deferent Research Of Society-Treble Study Woman Study Village Study Industrial Study and cultural study
- PS04- Appear for Competitive Exam- PSC , Labour officer Women And Child Development Family and health Welfare, valentry Welfare Institution Management Welfare officer
- PS05- Use For Teaching In School And College Level
- PS06- Helps The Study In higher Education And Ph.D. Work

S.NO	NAME OF COURSE	NAME OF SUBJECT/PAPER	COURSE OUTCOMES
1	B.A. I	Indroduction To Sociology (I)	To Give the Student To Primary knowledge Of Sociology- Social Intitution, Social Stratification ,Social Change And Socal System.
2	B.A. I	Contermporary Indian Society (II)	Understand Of Classical View about Indian Soiety, Structure Of Village Town, Composition Tribles Dalits And Woman, Basic Institution -Cast Sytem-joint Family and Marrige ,Familiy Problems and socal problems.
3	B.A. II	Sociology Of tribal Study (I)	Basic knowledge Of tribles - Tribes People , Tribal Culture, Tribal mobility, Tribal Development and tribles movements , problems of tribal people.
4	B.A. II	Crime In Society (II)	Knowledge Of Crime, Strucure Of Crime, Socal Evils and Crime, punishment and correctinal Process of Crime.
5	B.A. III	Sociology Of tribal Society (i)	Understand Of Tribes- Demography Profile, Socio Culture Profile of Tribes- kinship Marriage and family. Knowledge about religious Beliefs and Practices, Social Mobility and Change. Knowledge about Schemes Of Tribal Development Movement and problems.
6	B.A. III	Method Of Social Reaserch (li)	To Give The Student A Knowledge Of Reasearch Formulation Of Hypothesis , Scientific Methods, Observation, case Study, Content analysis, Surve,Sampling, Formulation of Questionnaire, Schedule and Interview guide. Understand about Statistics ,Graphics and Diagramm.

DEPARTMENT OF COMMERCE

PROGRAMME OUTCOMES, PROGRAMME SPECIFIC OUTCOMES AND COURSE OUTCOMES

Program outcome

- This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., well trained professionals to meet the requirements.
- After completing graduation, students can get skills regarding various aspects like Marketing Manager, Selling Manager, over all Administration abilities of the Company.
- Capability of the students to make decisions at personal & professional level will increase after completion of this course.
- Students can independently start up their own Business.
- Students can get thorough knowledge of finance and commerce.
- The knowledge of different specializations in Accounting, costing, banking and finance with the practical exposure helps the students to stand in organization,

PROGRAMME SPECIFIC OUTCOMES

- The students can get the knowledge, skills and attitudes during the end of the B.com degree course.
- By goodness of the preparation they can turn into a Manager, Accountant , Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government employments and so on.,
- Students will prove themselves in different professional exams like C.A. , C S, CMA, MPSC, UPSC. As well as other courses.
- The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.
- Students will gain thorough systematic and subject skills within various disciplines of finance, auditing and taxation, accounting, management, communication.
- Students can also get the practical skills to work as accountant, audit assistant, tax consultant, and computer operator. As well as other financial supporting services.
- Students will learn relevant Advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
- Students will be able to do their higher education and can make research in the field of finance and commerce.

COURSE OUTCOMES

(Commerce)

S No.	Name of Course	Paper	Name of Subject/Paper	Course Outcome
1	B.COM I	Paper I	Financial Accounting	To develop conceptual understanding of fundamentals of financial Accounting system and to impart skills in accounting for various kinds of business transactions.
2	B.COM I	Paper II	Business Communication	To develop communication skills and overall personality development of the students.
3	B.COM I	Paper III	Business Mathematics	To enable the students to have such minimum knowledge of mathematics as is applicable to business and economic situations.
4	B.COM I	Paper IV	Business Regulatory Framework	The Objective of this course is to provide a brief idea about the framework of Indian Business Law i.e. contract law , Sale of Goods Act , Partnership Act etc.
5	B.COM I	Paper V	Business Environment	To make the students aware about the Business and Business Environment. To give an insight into meaning of business environment and its components.
6	B.COM I	Paper VI	Business Economics	The objective of this course is to acquaint the students with the business economic principles as are applicable in business.
7	B.COM II	Paper I	Corporate Accounting	This course aims to enlighten the students on the accounting procedures followed by the Companies and to understand knowledge of new trends in corporate accounting issue of share and redemption of shares
9	B.COM II	Paper II	Company Law	To acquire knowledge and develop understanding of the necessary framework of companies with reference to various provisions of company act.
9	B.COM II	Paper III	Cost Accounting	To understand knowledge of cost accounting, single output costing, material cost, labour cost and overhead and Contract and Process Costing
10	B.COM II	Paper IV	Principal of Business Management	To know to make planning, decision making, controlling, staffing, organizing etc. to understand new approaches in management
11	B.COM II	Paper V	Business Statistics	It enable the students to gain understanding of statistical techniques as are applicable in business .
12	B.COM II	Paper VI	Fundamentals of Entrepreneurshi	To develop entrepreneurial awareness among students and motivate students to make their mind set for thinking entrepreneurship as career.

13	B.COM III	Paper I	Income Tax	Students can understand Income Tax system properly, and can get the knowledge of different tax provisions.
14	B.COM III	Paper II	Auditing	Students will be versed in the fundamental concepts of Auditing and different types of tax. and to give knowledge about preparation of Audit report.
15	B.COM III	Paper III	Indirect Taxes	Students will be versed in the fundamental concepts of indirect Taxes like GST and its Provisions and return filing process of GST .
16	B.COM III	Paper IV	Management Accounting	To introduce a separate branch of accounting i.e. Management Accounting and its relevance in a business organization and Familiarization with Contemporary issues in management.
17	B.COM III	Paper V	Principle of Marketing	The objective of this course is to facilitate understanding of the framework of marketing and its applications in decision making under various environment constraints.
18	B.COM III	Paper VI	International Marketing	This course aims at acquainting student with the operations of marketing in international environment.

Department of Botany

Sr. No.	Class	Program Outcomes	Program Specific Outcomes
1	B.Sc. Botany	<p>PO1. Critical Thinking: Think logically and organize tasks into a structured form. Understand the evolving state of knowledge in a rapidly developing field. Plan, Conduct and write a report on an independent term project.</p> <p>PO2. Practical smtis: Students learn to carry out practical work, in the field and in the laboratory, with minimal risk.</p> <p>PO3. Scientific knowledge: Apply the knowledge of basic science, life sciences and fundamental processes of plants to study and analyze any plant form.</p> <p>PO4. Social Interaction. Due to continuous field visits in the fields students interact with the social activities for their study.</p> <p>PO5. The Botanistsand society: Apply reasoning informed by the contextual knowledge to assess</p>	<p>PSO1. Understand occurrence, morphology, anatomy, reproduction and life cycles of lower group and higher group of plants.</p> <p>PSO2. Identify affinities among different groups of plants.</p> <p>PSO3. Gain the knowledge of evolution of plants.</p> <p>PSO4. To get introduced with fossils, fossilization and some primitive plants.</p> <p>PSO5. Understand different plant physiological processes i.e. photosynthesis, respiration, nitrogen metabolism, water absorption, mechanism of flowering, mineral nutrition, plant movements, etc.</p> <p>PSO6. Understand the application of genetic engineering and plant tissue culture.</p> <p>PSO7. Understand the basic concepts of ecology.</p> <p>PSO8. To explore the plants of economic importance.</p> <p>PSO9. Perform the laboratory techniques in anatomy, physiology, biochemistry, biotechnology, ecology and utilization of plants.</p>

		<p>plant diversity, its importance for society, health, safety, legal and environmental issues and the consequent responsibilities relevant to the biodiversity and conservation practice</p> <p>PO6. Ethics: The subject teaches students about the ethical approach, not to cut the plants.</p> <p>PO7. Environment and sustainability: Conservation practices are studied for sustainable development.</p> <p>PO8. Self-directed and Life-long learning: Each and every aspect of the syllabus teaches life- long learning.</p>	
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Sr. No.	Class	Paper	Course Outcomes
1	B.Sc. I	Ist: Bacteria, Viruses, Fungi, Lichens and Algae	<p>On completion of this course students will be able</p> <p>H To gain knowledge about microbial diversity.</p> <ul style="list-style-type: none"> ➤ To understand about range of thallus structure of algae, fungi and lichen and their occurrence. ➤ To know about life cycles of different algal and fungal spP <p>To gain knowledge about</p> <ul style="list-style-type: none"> ➤ economic importance of bacteria, viruses, algae, fungi and lichens.
		2nd: Bryophytes, Pteridophytes, Gymnosperms and Palaeobotany	<p>3• To understand about occurrence, structure and reproduction in bryophytes.</p> <ul style="list-style-type: none"> ➤ To know the evolution of sporophytes in bryophytes. ➤ To gain knowledge about stellar evolution and seed formation habit in pteridophytes. ➤ To understand about occurrence, structure and life cycles of pteridophytes. ➤ To gain knowledge about distribution, structure and life cycles of gymnosperms. ➤ To know about economic importance of bryophytes, pteridophytes and gymnosperms. ➤ To understand about

			geological time scale, fossils and fossilization.
		Practical	<ul style="list-style-type: none"> ➤ To have the knowledge of study of morphology, anatomy of algae, fungi, bryophyte, gymnosperm. ➤ To know the technique of identification of plant disease symptoms. ➤ Gain knowledge of anatomy of some gymnosperms.
2.	B.Sc. II	Ist: Plant Taxonomy, Economic Botany, Plant Anatomy and embryology	<p>H To know about Bentham and Hooker's system of Classification</p> <ul style="list-style-type: none"> » To understand about IUCN, Typification, numerical taxonomy chemotaxonomy, Herbaria and Botanical gardens. ➤ To gain knowledge about some important plant families. ➤ To explore the uses of plants as cereal, vegetable, oil, timber, spices, medicines, beverages, biodiesel plants. Also know about cultivation of important flowers and Ethnobotany of CG. ➤ To understand about plant root and stem structure, RAM, SAM organization, secondary growth and anatomical anomalies. ➤ To know the structure of a flower and its different parts. ➤ To get introduced to male

			<p>and female gametophyte development, pollination, self-incompatibility, fertilization, endosperm and embryo development, polyembryony, apomixes and parthenocarpy.</p>
		<p>2nd Ecology and Plant Physiology</p>	<ul style="list-style-type: none"> ➤ To have knowledge of Ecology and its scope, understand different ecological factors, soil formation and soil profile. ➤ To understand Liebig's law of minimum, Shelford's law of tolerance, morphological and anatomical adaptations in hydrophytes, xerophytes and epiphytes. ➤ To know about population and community characteristics, population interactions. ➤ To understand about succession, ecotone, edge effect, ecotypes, ecads keystone species. ➤ To have knowledge of energy flow in ecosystem, food chain, food web and ecological pyramids and biogeochemical cycles. ➤ To understand osmosis, water absorption, mineral nutrition, transpiration photosynthesis and respiration. ➤ To gain knowledge of Plant growth hormone and

			<p>mechanism of flowering.</p> <ul style="list-style-type: none"> ➤ To know photoperiodism, vernalization, seed dormancy, germination and plant movement.
		Practical	<ul style="list-style-type: none"> ➤ To get knowledge of study of some important plants in semi-technical language with their classification and identification. ➤ To know about morphology and anatomy of root, stem, and leaves with the help of prepared slides. ➤ To know the structure of flower. To know the technique of study of ovules, placentation, embryo with the help of slides. ➤ To know about some experiments of osmosis, transpiration, photosynthesis, respiration. ➤ To have knowledge of studying of a community by quadrat method. ➤ To know about structure of ecosystem. ➤ Study of some economically important plants.
3	B.Sc. III	Ist: Plant Physiology, Biochemistry and Biotechnology	<p>H To understand osmosis, water absorption, mineral nutrition in plants.</p> <ul style="list-style-type: none"> » To have knowledge about photosynthesis and respiration. ➤ To gain knowledge of how light and temperature affects

			<p>flowering in plants.</p> <ul style="list-style-type: none"> ➤ To get introduced to the structure of phytochrome, cryptochrome and phototropin. ➤ To know the mechanism of nitrogen fixation in plants. ➤ To understand about different types of plant movements. To gain knowledge of ➤ mechanism of action of enzymes. To have knowledge about seed ➤ dormancy. To know the main techniques ➤ of genetic manipulation and plant tissue culture.
		2 nd : Ecology and Utilization of plants	<p>% To understand different ecological factors.</p> <ul style="list-style-type: none"> ➤ To understand ecological relationship between organisms and their environment. ➤ To know about plant community and its development. ➤ To have knowledge of ecosystem, food chain, food web and ecological pyramids. To know about different ➤ biogeographical regions of India. To explore the uses of plants as ➤ cereal, vegetable, oil, timber, spices and medicines.
		Practical	<ul style="list-style-type: none"> ➤ To know about some

			<p>experiments of osmosis, transpiration, photosynthesis, respiration.</p> <ul style="list-style-type: none">➤ To know the technique of identification of carbohydrates, lipids and proteins.➤ To have knowledge of studying of a community by quadrat method.➤ To know about structure of ecosystem.➤ Study of some economically important plants.
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Department of Botany

Sr. No.	Class	Program Outcomes	Program Specific Outcomes
1	B.Sc. Botany	<p>PO1. Critical Thinking: Think logically and organize tasks into a structured form. Understand the evolving state of knowledge in a rapidly developing field. Plan, Conduct and write a report on an independent term project.</p> <p>PO2. Practical smtis: Students learn to carry out practical work, in the field and in the laboratory, with minimal risk.</p> <p>PO3. Scientific knowledge: Apply the knowledge of basic science, life sciences and fundamental processes of plants to study and analyze any plant form.</p> <p>PO4. Social Interaction. Due to continuous field visits in the fields students interact with the social activities for their study.</p> <p>PO5. The Botanistsand society: Apply reasoning informed by the contextual knowledge to assess</p>	<p>PSO1. Understand occurrence, morphology, anatomy, reproduction and life cycles of lower group and higher group of plants.</p> <p>PSO2. Identify affinities among different groups of plants.</p> <p>PSO3. Gain the knowledge of evolution of plants.</p> <p>PSO4. To get introduced with fossils, fossilization and some primitive plants.</p> <p>PSO5. Understand different plant physiological processes i.e. photosynthesis, respiration, nitrogen metabolism, water absorption, mechanism of flowering, mineral nutrition, plant movements, etc.</p> <p>PSO6. Understand the application of genetic engineering and plant tissue culture.</p> <p>PSO7. Understand the basic concepts of ecology.</p> <p>PSO8. To explore the plants of economic importance.</p> <p>PSO9. Perform the laboratory techniques in anatomy, physiology, biochemistry, biotechnology, ecology and utilization of plants.</p>

		<p>plant diversity, its importance for society, health, safety, legal and environmental issues and the consequent responsibilities relevant to the biodiversity and conservation practice</p> <p>PO6. Ethics: The subject teaches students about the ethical approach, not to cut the plants.</p> <p>PO7. Environment and sustainability: Conservation practices are studied for sustainable development.</p> <p>PO8. Self-directed and Life-long learning: Each and every aspect of the syllabus teaches life-long learning.</p>	
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Sr. No.	Class	Paper	Course Outcomes
1	B.Sc. I	Ist: Bacteria, Viruses, Fungi, Lichens and Algae	<p>On completion of this course students will be able</p> <p>H To gain knowledge about microbial diversity.</p> <ul style="list-style-type: none"> ➤ To understand about range of thallus structure of algae, fungi and lichen and their occurrence. ➤ To know about life cycles of different algal and fungal spP <p>To gain knowledge about</p> <ul style="list-style-type: none"> ➤ economic importance of bacteria, viruses, algae, fungi and lichens.
		2nd: Bryophytes, Pteridophytes, Gymnosperms and Palaeobotany	<p>3• To understand about occurrence, structure and reproduction in bryophytes.</p> <ul style="list-style-type: none"> ➤ To know the evolution of sporophytes in bryophytes. ➤ To gain knowledge about stellar evolution and seed formation habit in pteridophytes. ➤ To understand about occurrence, structure and life cycles of pteridophytes. ➤ To gain knowledge about distribution, structure and life cycles of gymnosperms. ➤ To know about economic importance of bryophytes, pteridophytes and gymnosperms. ➤ To understand about

			geological time scale, fossils and fossilization.
		Practical	<ul style="list-style-type: none"> ➤ To have the knowledge of study of morphology, anatomy of algae, fungi, bryophyte, gymnosperm. ➤ To know the technique of identification of plant disease symptoms. ➤ Gain knowledge of anatomy of some gymnosperms.
2.	B.Sc. II	Ist: Plant Taxonomy, Economic Botany, Plant Anatomy and embryology	<p>H To know about Bentham and Hooker's system of Classification</p> <ul style="list-style-type: none"> » To understand about IUCN, Typification, numerical taxonomy chemotaxonomy, Herbaria and Botanical gardens. ➤ To gain knowledge about some important plant families. ➤ To explore the uses of plants as cereal, vegetable, oil, timber, spices, medicines, beverages, biodiesel plants. Also know about cultivation of important flowers and Ethnobotany of CG. ➤ To understand about plant root and stem structure, RAM, SAM organization, secondary growth and anatomical anomalies. ➤ To know the structure of a flower and its different parts. ➤ To get introduced to male

			<p>and female gametophyte development, pollination, self-incompatibility, fertilization, endosperm and embryo development, polyembryony, apomixes and parthenocarpy.</p>
		<p>2nd Ecology and Plant Physiology</p>	<ul style="list-style-type: none"> ➤ To have knowledge of Ecology and its scope, understand different ecological factors, soil formation and soil profile. ➤ To understand Liebig's law of minimum, Shelford's law of tolerance, morphological and anatomical adaptations in hydrophytes, xerophytes and epiphytes. ➤ To know about population and community characteristics, population interactions. ➤ To understand about succession, ecotone, edge effect, ecotypes, ecads keystone species. ➤ To have knowledge of energy flow in ecosystem, food chain, food web and ecological pyramids and biogeochemical cycles. ➤ To understand osmosis, water absorption, mineral nutrition, transpiration photosynthesis and respiration. ➤ To gain knowledge of Plant growth hormone and

			<p>mechanism of flowering.</p> <ul style="list-style-type: none"> ➤ To know photoperiodism, vernalization, seed dormancy, germination and plant movement.
		Practical	<ul style="list-style-type: none"> ➤ To get knowledge of study of some important plants in semi-technical language with their classification and identification. ➤ To know about morphology and anatomy of root, stem, and leaves with the help of prepared slides. ➤ To know the structure of flower. To know the technique of study of ovules, placentation, embryo with the help of slides. ➤ To know about some experiments of osmosis, transpiration, photosynthesis, respiration. ➤ To have knowledge of studying of a community by quadrat method. ➤ To know about structure of ecosystem. ➤ Study of some economically important plants.
3	B.Sc. III	Ist: Plant Physiology, Biochemistry and Biotechnology	<p>H To understand osmosis, water absorption, mineral nutrition in plants.</p> <ul style="list-style-type: none"> » To have knowledge about photosynthesis and respiration. ➤ To gain knowledge of how light and temperature affects

			<p>flowering in plants.</p> <ul style="list-style-type: none"> ➤ To get introduced to the structure of phytochrome, cryptochrome and phototropin. ➤ To know the mechanism of nitrogen fixation in plants. ➤ To understand about different types of plant movements. To gain knowledge of ➤ mechanism of action of enzymes. To have knowledge about seed ➤ dormancy. To know the main techniques ➤ of genetic manipulation and plant tissue culture.
		2 nd : Ecology and Utilization of plants	<p>% To understand different ecological factors.</p> <ul style="list-style-type: none"> ➤ To understand ecological relationship between organisms and their environment. ➤ To know about plant community and its development. ➤ To have knowledge of ecosystem, food chain, food web and ecological pyramids. To know about different ➤ biogeographical regions of India. To explore the uses of plants as ➤ cereal, vegetable, oil, timber, spices and medicines.
		Practical	<ul style="list-style-type: none"> ➤ To know about some

			<p>experiments of osmosis, transpiration, photosynthesis, respiration.</p> <ul style="list-style-type: none">➤ To know the technique of identification of carbohydrates, lipids and proteins.➤ To have knowledge of studying of a community by quadrat method.➤ To know about structure of ecosystem.➤ Study of some economically important plants.
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Department of Chemistry

Programme Outcomes: B.Sc. Chemistry

Department of Chemistry	After successful completion of three year degree program in Chemistry a student should be able to-
Programme Outcomes	<p>PO-1. Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry.</p> <p>PO-2. Solve the problem and also think methodically, independently and draw a logical conclusion.</p> <p>PO-3. Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reactions.</p> <p>PO-4. Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community.</p> <p>PO-5. To inculcate the scientific temperament in the students and outside the scientific community.</p> <p>PO-7. Use modem techniques and equipments</p>

<p>Programme Specific Outcome</p>	<p>PSO1. Have sound knowledge about the fundamentals and applications of chemical and Scientific theories.</p> <p>PSO2. Conduct experiments safely and effectively, analyze data, and interpret results in the context of theoretical concepts.</p> <p>PSO3. Will become familiar with the different branches of chemistry like analytical, organic, inorganic, physical, environmental, polymer and biochemistry</p> <p>PSO4. Develops analytical skills and problem solving skills requiring application of chemical principles.</p> <p>PSO5. Acquires the ability to analyze, synthesize, and characterize compounds using various techniques.</p>
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Course outcome of B.Sc. Part-I

Course	Outcomes
<p>INORGANIC CHEMISTRY Paper Code- 0795 Total Hours: 60 hrs. M.M. 33</p>	<p>After successful completion of these courses students should be able to;</p> <p>CO1. Knowledge of atomic structure and periodic properties of elements.</p> <p>CO2. Understand various types of bonding in covalent molecules and ions.</p> <p>CO3. Understand various types of bonding in ionic solids.</p>

	<p>CO4. Comparative knowledge of s-block elements of periodic table and there compounds. Chemistry of noble gases.</p> <p>CO5. Comparative knowledge of p-block elements of periodic table and there compounds. Chemical principles involve in inorganic chemical analysis.</p>
<p>Paper- II: ORGANIC CHEMISTRY Paper Code- 0796 Total Hours: 60 hrs. M.M. 33</p>	<p>CO1. Knowledge of electronic structure, bonding and mechanism of organic reactions.</p> <p>CO2. Knowledge of stereochemistry of organic compounds.</p> <p>CO3. Understand Chemistry of aliphatic and aromatic ring compounds.</p> <p>CO4. Understand Chemistry of alkenes, dienes and alkynes.</p> <p>CO5. Understand Chemistry of arenes and aromaticity.</p>
<p>Paper- III: PHYSICAL CHEMISTRY Paper Code- 0797 Total Hours: 60 hrs. M.M. 34</p>	<p>CO1. Understand the idea of mathematical concepts for chemists and basic knowledge of computer.</p> <p>CO2. Knowledge of various types of molecular velocities and their effect on properties. Understand behaviour of ideal gases.</p> <p>CO3. Understand intermolecular forces in liquid state, ideal and non ideal solutions, properties of dilute solutions.</p> <p>CO4. Understand structure, properties and uses of liquid crystals. Colloidal states and its properties and uses.</p> <p>CO5. Understand chemical kinetics rate constant and order of reactions and various theories. Characteristics types and industrial applications of catalysis.</p>
<p>Practical work Total Hours: 180 hrs. M.M. 50</p>	<p>CO1. Analyze qualitatively acid and basic radicals by semi-micro analysis method.</p> <p>CO2. Calibration of thermometers.</p> <p>CO3. Determination of melting point and boiling point of organic compounds.</p> <p>CO3. Mixed melting point determination.</p> <p>CO4 Crystallization</p> <p>CO5. Decolourisation and crystallization using charcoal.</p>

	<p>CO6. Sublimation.</p> <p>CO7. Detection of Nitrogen, Sulphur and Halogens and detection of functional group present in organic compounds.</p> <p>CO8. To determine specific rate of hydrolysis of methyl/ethyl acetate catalysed by hydrogen ion at room temperature.</p> <p>CO9. To study distribution of iodide between water and carbon tetra chloride.</p> <p>CO10. To determine the % composition of a given mixture by viscosity method.</p>
Course Outcomes B.Sc. Part Two	
Course	Outcomes
	After successful completion of these courses students should be able to;
<p>Paper- I INORGANIC CHEMISTRY Paper Code- 0845 Total Hours: 60 hrs. M.M. 33</p>	<p>CO1. Understand chemistry of first transition series elements.</p> <p>CO2. Understand chemistry of second and third transition series elements.</p> <p>CO3. Understand Oxidation and reduction. Coordination compounds.</p> <p>CO4. Understand chemistry of lanthanides and actinides.</p> <p>CO5. Understand Acid and bases and non-aqueous solvents.</p>
<p>Paper- II : ORGANIC CHEMISTRY Paper Code- 0846 Total Hours: 60 hrs. M.M. 33</p>	<p>CO1. Understand chemistry of alkyl and aryl halides</p> <p>CO2. Understand chemistry of alcohols, phenols and epoxides.</p> <p>CO2. Understand chemistry of aldehydes and Ketons and its applications.</p> <p>CO3. Understand chemistry of carboxylic acid, substituted carboxylic acids and there derivatives.</p> <p>CO5. Understand Chemistry of organic compound of nitrogen.</p>
<p>Paper- III: PHYSICAL CHEMISTRY Paper Code- 0847</p>	<p>CO1. Understand first law of thermodynamics and thermo chemistry.</p> <p>CO2. Understand second law of thermo chemistry, efficiency of a</p>

<p>Total Hours: 60 hrs. M.M. 34</p>	<p>heat engine and concept of entropy.</p> <p>CO3. Understand phase equilibrium, Gibbs rule, and application of phase rule to two component systems and three component systems and Nernst distribution law.</p> <p>CO4. Understand Chemical and ionic equilibrium</p> <p>CO5. Understand Photophysical processes in photochemistry</p>
<p>Practical work Total Hours: 180 hrs. M.M. 50</p>	<p>CO1. Calibration of fractional weights, pipettes and burettes.</p> <p>CO2. Preparation of standard solutions</p> <p>CO3. Quantitative volumetric estimation of vinegar, antacid tablets, chalk, hardness of water, ferrous & ferric and copper.</p> <p>CO3. Colorimetry: Jobs method and mol ratio method.</p> <p>CO4. Adulteration in food stuffs.</p> <p>CO5. Effluent analysis.</p> <p>CO6. Water analysis.</p> <p>CO7. Solvent extraction- separation and estimation of Mg and Fe.</p> <p>CO8. Ion exchange method; separation and estimation of Mg and Zn.</p> <p>CO9. Paper chromatography: Determination of R_f value and identification of organic compounds.</p> <p>CO10. Paper chromatography Ascending and circular, Determination of R_f value and identification of organic compounds</p> <p>CO11. Qualitative analysis: identification of an organic compound.</p> <p>CO12. Determination of the transition temperature of given substance by thermometric/ dilatometric method.</p> <p>CO13. To study of a solute on the critical solution temperature of two partially miscible liquids</p> <p>CO14. Construct the phase diagram of two component system by cooling curve method.</p>

	<p>CO15. Determine the solubility of benzoic acid at different temperature.</p> <p>CO16. Determine the enthalpy of neutralization and ionization.</p>
	Course Outcomes B.Sc. Part-III
Course	Outcomes
	After successful completion of these courses students should be able to;
<p>Paper- I INORGANIC CHEMISTRY - I Paper Code- 0895 Total Hours: 60 hrs. M.M. 33</p>	<p>CO1. Understand metal ligand bonding in transition metal complexes. Thermodynamics and kinetic aspects of metal complexes.</p> <p>CO2. Understand magnetic properties of transition metal complexes and electronic spectra of complexes.</p> <p>CO3. Understand chemistry of organometallic compounds.</p> <p>CO4. Understand bioinorganic chemistry.</p> <p>CO5. Understand hard and soft acids and bases and silicones and phosphazenes.</p>
<p>Paper- II : ORGANIC CHEMISTRY Paper Code- 0896 Total Hours: 60 hrs. M.M. 33</p>	<p>CO1. Understand chemistry of organometallic compounds, organosulphur compounds and organic synthesis via enolates.</p> <p>CO2. Understand biomolecules carbohydrates, proteins and nucleic acid.</p> <p>CO3. Understand Chemistry of synthetic polymers and synthetic dyes.</p> <p>CO4. Understand mass spectroscopy, infrared spectroscopy, UV-Visible spectroscopy and application of mass, IR, UV-Visible spectroscopy to organic molecules.</p> <p>CO5. Understand NMR spectroscopy and ^{13}C NMR spectroscopy and magnetic resonance imaging.</p>
<p>Paper- III: PHYSICAL CHEMISTRY Paper Code- 0897 Total Hours: 60 hrs. M.M. 34</p>	<p>CO1. Understand Quantum Mechanics black body radiation, DeBroglie's idea of matter waves, Schrödinger time independent wave equation and its applications.</p> <p>CO2. Understand quantum mechanical approach to molecular orbital theory, Orbitals and their characteristics.</p> <p>CO3. Understand Vibrational and Raman spectra.</p>

	<p>CO4. Understand electrolytic conductance, theories of strong electrolytes and migration of ions.</p> <p>CO5. Understand electrochemical cell or galvanic cell, single electrode potential, concentration cell, pH and its determination and corrosion.</p>
<p>Practical work Total Hours: 180 hrs. M.M. 50</p>	<p>CO1. Synthesis analysis of sodium trioxalato ferrate(III).</p> <p>CO2. Preparation of Ni-DMG.</p> <p>CO3. Preparation of Copper tetra ammine complex.</p> <p>CO3. Preparation of cis- and trans-bioxalato diaqua chromate(III).</p> <p>CO4. Gravimetric analysis of Cu as CuSCN, Ni as Ni(DMG), Ba as BaSO₄ and Fe as Fe O₃</p> <p>CO5. Steam distillation: Naphthalene from its suspension in water, Clove oils from clove, Separation of ortho and para-nitrophenols.</p> <p>CO6. Analysis of an organic mixture containing two solid components.</p> <p>CO7 Acetylation of salicylic acid, aniline, glucose and hydroquinone.</p> <p>CO8. Benzoylation of aniline and phenol.</p> <p>CO9. Preparation of m-dinitrobenzene, p-nitroacetanilide.</p> <p>CO10. Preparation of p-bromoacetanilide, 2,4,6-tribromophenol.</p> <p>CO11. Preparation of methyl orange and methyl red.</p> <p>CO12. Preparation of benzoic acid from toluene.</p> <p>CO13. Preparation of aniline from nitrobenzene, preparation of m-nitro aniline from m-dinitrobenzene.</p>

Department Of Mathematics

B.Sc. Maths(Graduate)

Programme Specification Outcomes

On Completion Of The Student Will Be Able To -

- PSO1 - Provide The Basic Knowledge Of Maths.
- PSO2 - Understand Different Problem Of Maths.
- PSO3 - Measure The Height Of a Building Or Mountain.
- PSO4 - Appear For Competitive Examination.
- PSO5 - Use For Teaching In School Level.
- PSO6 - Use In Engineering and Medical Fields.
- PSO7 - Use In Banking and Railway Areas.
- PSO8 - Helps The Study in Higher Education.
- PSO9 - Thinking a Critical Manners.
- PS10 - Calculate The Motion Of Body and Various Oscilators.
- PS11 - Develop Self Confidence, Skill and Reasoning.

S.N.	Name Of Course	Name Of Sub./Paper	Course Outcome
1	B.Sc. 1st	Algebra & Trigonometry - 1	1. To Give The Student Of First-Hand Knowledge Of Matrix.
			2. To Develop In Students Application Of Linear Equation .
			3. To Give Knowledge Of Major Mathematicians Of Their Contribution.
			4. To Give The Students On Knowledge Of Mappings And Homomorphism.
			5.To Understand Permutation Group.
			6. Knowledge Of Trigonometrical Functions.
			7. Understand Group And Its Properties.
2	B.Sc. 1st	Elementary Calculus - 2	1. Knowledge Of Limit Of Function Asymptotes.
			2. Understand Of Curvature & Tracing Of Curves.
			3. Understand Of Integration Of Transcendental Functions.
			4. Knowledge Of Degree And Order Offer Differential Equation.
			5. Knowledge Of Linear Differential Equation.
3	B.Sc. 1st	Vector Analysis & Geometry - 3	1. Knowledge Of Is Scalar And Vector Product.
			2. Understand Vector Integration In Theorem Of Gauss And Green Stocks.
			3. Understand System Of Conics And Polar Equation Of Conic.
			4. Understand Plane, Sphere And Cone.
4	B.Sc. 2nd	Advanced Calculus - 1	1. Understand Sequence And Series.
			2. Understand Continuity Of Function And It's Properties.
			3. Understand Beta And Gamma Functions And Its Theorem.
			4. Understand The Euler Theorem On Homogeneous Function.
			5. Understand Envelops Maxima And Minima Lagrange's Multiplier Method.
5	B.Sc. 2nd	Differential Equation - 2	1. Understand The Power Series Method Bessel And Legendre Functions.
			2. Understand Laplace Transformation And It's Existence Theorem.

			3. Understand The Lagrange's Solution And Charpit Method.
			4. Understand Variational Problem With Fixed Boundaries Eulers Equation For Functional Containing First Order Derivatives.
6	B.Sc. 2nd	Mechanics - 3	1. Understand Equilibrium Of Coplanar Forces Stable And Unstable Equilibrium And Virtual Work.
			2. Understand Forces In Three Dimensions Poinot's Central Axis And Null Lines And Planes.
			3. Knowledge Of Simole Harmonic Motion And Hooke's Law.
			4. Understand Velocities And Acceleration Along Radial And Transverse Directions.
			5. Knowledge Of Kepler's Law Of Motion (Planetary Motion).
7	B.Sc. 3rd	Analysis - 1	1. To Give The Student A First Hand Knowledge Of Series Of Arbitrary Term Double Series And Implicit Function.
			2. Understand The Riemann Integral And The Fundamental Theorem Of Integral Calculus.
			3. Knowledge Of Matric Space And Limit Points.
			4. Understand Complex Numbers As Ordered Pair And Analytic Function.
			5. Understand Baire Category Theorem And Extension Theorem.
8	B.Sc. 3rd	Abstract Algebra - 2	1. To Give The Student A Knowledge Of Group Automorphism A Normalizer.
			2. Understand Ring Theory And Homomorphism And Isomorphism Theorem.
			3. To Give The Student A Knowledge Of Vector Space And Their Basic Properties Basis.
			4. To Give The Student A Knowledge Of Linear Transformation And Diagonalization.
			5. Understand Inner Product Space And Cauchy Schwarz Inequality.
9	B.Sc. 3rd	Discrete Mathematics - 3	1. Understand Phrase Structure Grammars And Langauges.
			2. Knowledge Of Relation And Function Graph.
			3. Understand Finite State Machine And Equivalent Machine.

4. Understand Recurrence Relation And Homogeneous.
 5. Understand Boolean Algebra (Lattice) And Boolean Function
 6. Knowledge Of Switching Circuits.
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PROGRAMNE OUTCOMES
(Under Graduate)

PO-1. Students will demonstrate proficiency in mathematics and the mathematical concepts needed for a proper understanding of physics.

PO -2. Students will demonstrate knowledge of classical mechanics, electromagnetism, quantum mechanics, and thermal physics, and be able to apply this knowledge to analyze a variety of physical phenomena.

PO-3. Students will show that they have learned laboratory skills, enabling them to take measurements in a physics laboratory and analyze the measurements to draw valid conclusions.

PO-4. Students will be capable of oral and written scientific communication, and will prove that they can think critically and work independently.

PROGRAMME SPECIFIC OUTCOMES
(Under Graduate)

PSC-1 .Understand the core concept of Physics subjects.

PSO-2 .Acquire analytical and logical skill for higher Education.

PSO- 3. Excel in Experimental and Theoretical Physics.

PSO- 4.Trained to take up jobs in applied fields.

PSO-5. Confident to take up competitive exams

COURSE OUTCOMES

(Under Graduate)

S. No.	Name of Course	Year/ Semester	Name of Subject	Course Outcome (After going through the course, the student should be able to)
1.	B.Sc.	Part-I (Paper-I)	Mechanics, Oscillations Properties of Matter	*Understand laws of motion and their application to various dynamical situations, motion of inertial frames and concept of Galilean invariance. *Understand the analogy between translational and rotational dynamics. *Understand the phenomena of collisions and idea about centre of mass and laboratory frames and their correlation. *Understand the principles of elasticity and the study of modulus of rigidity. *Understand simple principles of fluid flow and the equations governing fluid dynamics and the phenomena of simple harmonic motion and the

properties of systems executing such motions.

*In the laboratory course, the student shall perform experiments related to mechanics (compound pendulum), rotational dynamics (Flywheel), elastic properties (Young Modulus and Modulus of Rigidity) and fluid dynamics (verification of Stokes law, Searle method) etc.

*Demonstrate Gauss's law, Coulomb's law for the electric field, and apply it to systems of point charges as well as line, surface, and volume distributions of charges.

* Articulate knowledge of electric current, resistance and capacitance in terms of electric field and electric potential.

* Understand the dielectric properties, magnetic properties of materials and the phenomena of electromagnetic induction.

*Apply Kirchhoff's rules to analyze AC circuits consisting of parallel and/or series combinations of voltage sources and resistors and to describe the graphical relationship of resistance, capacitor and inductor

*In the laboratory course the student will get an opportunity to verify various laws in electricity and magnetism such as Lenz's law, Faraday's law and learn about the construction, working of various measuring instruments.

*Comprehend the basic concepts of thermodynamics, the first and the second law of thermodynamics, the concept of entropy and the thermodynamic potentials and their physical interpretations.

*Learn about Maxwell's thermodynamic relations.

*Learn the basic aspects of kinetic theory of gases, Maxwell-Boltzmann distribution law, equipartition of energies, mean free path of molecular collisions, viscosity, thermal conductivity, diffusion.

*Learn to calculate the Maxwell, Bose Einstein, and Fermi Dirac Statistics.

*In the laboratory course, the students are expected to do some basic experiments in thermal Physics, viz., determinations of Stefan's constant, coefficient of thermal conductivity, temperature coefficient of resistance etc.

Recognize and use a mathematical oscillator equation and wave equation, and derive these equations for certain

*Apply basic knowledge of principles and theories about the behavior of light and the physical environment to conduct experiments Use the

principles of wave motion and **superposition** to

2. B.Sc.

Part-I
(Paper-II)

Electricity,
Magnetism
and
electromagnetic theory

3. B.Sc.

Part-II
(Paper-I)

Thermodynamics, Kinetic theory and Statistical Physics

4. B.Sc.

Part-II
(Paper-II)

Waves,
Acoustic and
Optics

				<p>and diffraction.</p> <p>*Understand the working of selected optical instruments like biprism, interferometer, diffraction grating.</p> <p>*Distinguish the different types of aberrations and achromatism.</p> <p>*.Use different types of eyepieces according to their application.</p> <p>*Familiar with Basics of Laser Physics.</p> <p>*In the laboratory course, student will gain hands-on experience of using various optical instruments and making finer measurements of wavelength of light using Laser Beam. Resolving power of prism and grating etc.</p>
5.	B.Sc.	Part-III (Paper-I)	Relativity, Quantum Mechanics, Atomic Molecular and Nuclear Physics	<p>*Understand the basic concept of Reference System.</p> <p>"To get familiar with inadequacies of classical mechanics in explaining microscopic phenomena, quantum theory formulation is introduced through Schrodinger equation</p> <p>*Through understanding the behavior of quantum particle encountering a i) barrier, ii) potential, the student gets exposed to solving non-relativistic hydrogen atom, for its spectrum and eigen functions.</p> <p>*Learn the ground state properties of nucleus and know about the nuclear model, nuclear <i>mactcr</i> and the process of radioactivity.</p>
6.	B.Sc.	Part-III (Paper-II)	Solid State Physics and Electronics	<p>'A brief idea about crystalline and amorphous substances, about lattice, unit cell, miller indices, reciprocal lattice, concept of Brillouin zones and diffraction of X-rays by crystalline materials</p> <p>*Rasic knowledge of N- and P- type semiconductors, mobility, drift velocity, fabrication of P-N junctions; forward and reverse biased junctions.</p> <p>*Application of PN junction for different type of rectifiers and voltage regulators.</p> <p>*NPN and PNP transistors and basic configurations namely common base, common emitter and common collector, and also about current and voltage gain.</p> <p>*Biasing and equivalent circuits, coupled amplifiers and feedback in amplifiers and oscillators.</p> <p>*To characterize various devices namely PN junction diodes, LEDs, Zener diode, solar cells, PNP and NPN transistors. Also construct amplifiers and oscillators using discrete components.</p>

COURSE OUTCOME
DEPARTMENT OF ZOOLOGY

B.Sc. Part-I

Cell Biology: -

1. On completion of the course, students are able to:
2. Understand the Scope of cell biology, because cell is the basic unit of life.
3. Understand the Main distinguishing characters between plant cell and animal cell.
4. To study and understand the whole cell organelles with their structure and function.
5. Understand the cell cycle and know the importance of various cells in body of organisms.
6. Understand the various applications of cells by using cell biology like study of various types of tumour.

Non-Chordates: -

On completion of the course, students are able to:

1. Understand about the Non-Chordate animals.
2. To study the external as well as internal characters of non-chordates.
3. To study the distinguishing characters of non-chordates.
4. Understand the economical importance of Molluscs.
5. Understand the Characters of class Asterozoa with help of animal Sea star.
6. Understand the internal as well as external morphology of that animal.
7. To study and understand the concepts-Metamorphosis, regeneration and autotomy.
8. Understand the Mouthparts of insects.
9. Understand the Canal system in sponges.
10. Understand the Locomotion in Protozoa.
11. To observe and study the Foot in Mollusca.

Chordate: -

On completion of the course, students are able to:

1. Understand the phylum Chordate.
2. Understand the evolution, history of phylum
3. Understand the evolution, history of phylum.
4. Understand the basic concepts about chordates.
5. Understand the external morphology and sexual dimorphism in chordates.
6. Study and understand the various systems, adaptation and dentition in Mammals.

General Embryology: -

After successfully completing this course, students will be able to:

1. Identify the developmental stages
 2. Describe the key events in early and systematic embryological development.
 3. Describe the process of gametogenesis.
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4. Describe the chick development up to 96 hours of incubation and extra embryonic membranes.
 5. Explain the theories of preformation, and concepts like growth, differentiation and reproduction.
 6. Explain the principles and process of fertilization and cleavage.
 7. Prepare the flow chart of gametogenesis process.

Practical Paper: -

After successfully completing this course, students will be able to:

1. Identify the life cycle stages of few parasites.
2. Identify and explain the cleavage blastulae and gastrulae
3. Identify the age of chick embryo.
4. Identify the phases of cell division.
5. List the household Pest and social insects.
6. Explain the pathogenicity and morphology of few ectoparasites.
7. Explain the diseases spread by vectors.
8. Explain the interrelationship of insects and human with examples.
9. Explain the effects of household insects on human health.
10. Demonstrate rectal parasites in cockroach.
11. Demonstrate Mitochondrial mitotic and meiotic stages by stained preparations.
12. Illustrate the social organization in insects.
13. Prepare temporary slide of chick embryo to identify the stage and age.
14. Prepare mounting of mouth parts of few common insects

B.Sc. Part-II

Structure and Function of Vertebrates:-

After successfully completing this course, students will be able to:

1. Understand the classes of vertebrates: fishes, Amphibia, Reptilia, Aves and Mammals.
2. Study of endoskeleton of vertebrates.
3. Comparative Study of skin of vertebrates.
4. Understand the comparative account of urogenital system, nervous system, digestive system heart and aortic arches and its evolution in vertebrates.

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5. Understand the physiology of nerve impulse and signalling mechanism and digestion.

Vertebrate endocrinology and reproductive biology:-

After successfully completing this course, students will be able to:

1. define endocrine glands and hormone.
2. Understand the general idea about hormone roles in animal body.
3. Understand the types of hormone, synthesis, secretion and its function.
4. Understand the mechanism of hormone action and its termination.
5. Understand the reproductive system of animal and its function.
6. Understand the role of hormone in animal reproduction and reproductive cycle.
7. Understand the disease and disorder of imbalance of hormones.
8. Reproductive behaviour in animal like courtship pattern.

Ethology:-

After successfully completing this course, students will be able to:

Define the term ethology/animal behaviour.

Understand the reproductive behaviour in animals.

Understand about orientation behaviour in animal, like taxis, reflexes.

Understand about drugs, hormones and behaviour.

Organic Evolution:-

After successfully completing this course, students will be able to:

1. Define organic evolution.
2. Explain the theories of organic evolution.
3. Describe the concept of origin of life and theories of origin of life.
4. Describe evolution of horse .
5. Illustrate the presence of organisms at various geological time scale.
6. Apply the knowledge in relevant experimentations.
7. Categorize different zoogeographical realms.
8. Compare animal distribution in different zoogeographical realms.

Applied Zoology:-

After successfully completing this course, students will be able to:

1. Introduce the term apiculture to the students.
2. To aware the students and provides the economical importance of Apiculture.
3. Understand the Bee keeping equipments and apiary management.
4. To study and understand the various species of Bees.

Practical Paper:-

After successfully completing this course, students will be able to:

1. Identify the organs by studying the histological slides.
 2. Identify hormonal disorders using pictures.
 3. Explain the anatomical features of brain, heart, kidney and skin of vertebrates.
 4. Explain the anatomical features of brain, heart, kidney and skin of vertebrates.
 5. : Identify the fossil types/ adaptations in animals.
 6. Explain the evidences of evolution
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7. Identify the age of chick embryo.
8. Illustrate the social organization in insects.

Environmental Biology & Toxicology:-

After successfully completing this course, students will be able to:

1. List the environmental challenges and their remedies.
2. Describe the nature of ecosystem, productivity, food webs, energy flow,
3. Describe the resilience of ecosystem and ecosystem management.
4. Explain Biosphere, biomes and impact of climate on biomes.
5. Explain wildlife management in India and conservation of wildlife.
6. Explain the three necessary and sufficient conditions i.e. struggle for existence; variation; and inheritance.
7. Illustrate the toxic effects of chemicals in the environment on human and his
8. livestock.
9. Discuss natural resources, causes of their depletion and their conservation.

Microbiology:-

After successfully completing this course, students will be able to:

1. Understand about general and applied microbiology.
2. Uses of microbes to making for useful product in industries.
3. Microbiology of domestic water and sewage.

Medical microbiology:-

After successfully completing this course, students will be able to:

1. Define the basic terms in parasitology.
2. List common ectoparasites and endoparasites.
3. Explain animal associations and their types.
4. Discuss the life cycle and importance of major parasites.
5. Illustrate transmission routes of animal and zoonotic parasites
6. Classify parasites.
7. Justify the control measures of arthropod vectors.
8. Convince the importance of hygiene with respect to epidemic diseases.

Genetics & Molecular biology:-

After successfully completing this course, students will be able to:

1. Define the basic terms in genetics.
2. Discuss the linkage groups and gene frequency.
3. Explain the concept of mutation.
4. Paraphrase the Central dogma of molecular biology.
5. Illustrate the mechanism of replication, transcription and translation.

Biological Chemistry:-

After successfully completing this course, students will be able to:

1. Define the basic terms in biochemistry.
 2. Explain the structure, functions and reactions of the various biomolecules.
 3. Give examples of each group type of biomolecules.
 4. Correlate the changes in the levels of these biomolecules with the diseases in human
 5. Calculate pH and pOH of buffer solution.
 6. Classify the biomolecules. And enzyme.
 7. Draw the structures of major biomolecules.
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Biological techniques:-

After successfully completing this course, students will be able to:

1. Describe the techniques used in hematology.
2. Explain the principle of separation techniques.
3. Illustrate the working of microscopes.
4. List the separation techniques.
5. Demonstrate the principle, working, applications of centrifugation.

Practical Paper:-

After successfully completing this course, students will be able to:

1. Count total leucocytes from blood samples.
 2. Estimate the Hb. level in blood samples.
 3. Measure the pH of given samples.
 4. Identify the life cycle stages of few parasites.
 5. Explain the pathogenicity and morphology of few ectoparasites.
 6. Explain the importance and applications of techniques in biochemistry
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Department of Political Science

Course outcome

S.No.	Name of Course	Year/Semester	Name of Subject /Paper	Course Outcome
1:-	B.A. I:-	Paper 1:-	Political Theory I:-	It enables the students to have knowledge of basic concepts of political science, human behaviour power, power authority, state element Sovereignty and democracy.
		Paper 2:-	indian government and politics :-	It provides knowledge related to Indian National movements 1757 to august 1947, Indian constitution process fundamental and duty union government and supreme court.
2:-	B.A. II:-	Paper 1:-	Political thought :-	It helps to understand Plato Aristotle state theory Machiavelli, prince and kind manu and kautilya saptang theory, Dr. Ambedkar , socialist thought deen dayal Upadhyay akatmamanavvad.
		Paper 2:-	Comparative government politics	It enable the students to have knowledge of British constitution evolution and Indian constitution compression, U.S.A. Constitution future and separation, switzerland and china constitution and government and direct democracy.
3:-	B.A. III:-	Paper 1:-	International politics and foreign policy of india	It helps to understand International politics , power of politics, balance of power, disarmament, cold war, diplomacy, saarc and globalization environmentalism.
		Paper 2:-	Public administration:-	It enables the students to have knowledge of public and private administration, importance, principal of organization POSDCORB to luther gulic and budget process of Indian government.
4:-	M.A. I Semester	Paper 1:-	Western political thought	It provides knowledge related to Greek political thought main characteristics , plato ideal sate, aristotle constitution theory, maciavelli the child of his time, hobbes, lockes and rousseau social contact theory, karl marks interpretation of history.
		Paper 2:-	Comparative politics	It enables the students to have knowledge of Comparative politics , political system theory, David esoton, political development approach, political modernization, social movement.
		Paper 3:-	Public administration	It enables the students to have knowledge of Public and private administration, theory of organization POSDCORB luther gulic, theory staff agency legislative and judicial, recruitment training , financial administration , budget making and right to information.

		Paper 4:-	International politics	It helps the students to have knowledge of development of international politics and game theory, balance of power, non alignment,diplomacy and regional organization SAARC,ASEAN and EU terrorism, South Asia and nuclear aggrement.
5:-	M.A. II Semester	Paper 1:-	Modern Indian political thought	It enable the students to have knowledge of evolution of Indian political thought Rajaram mohan roy, Dayanand saraswati and Vivekananda thought, Mahatma Gandhi social and political thought, Pt. Nehru and Dr. Ambedkar, social revolution and policy, social political ideas, narendranath nationalism and political ideas.
		Paper 2:-	Contemporary political issues	It enable the students to have knowledge related to cold war and detante, new economic system , north south dialogues ,globalization , environment protection conference, nuclear disarmament CTBT, NPT, social development and agriculture and food problem.
		Paper 3:-	Research methodology	It provides knowledge related to social research and problem, scientific research method, data collection , observation and interview, computer , social science research, statistics analysis ,mean, median, mode and report.
		Paper 4:-	International organization	It enables the students to have knowledge related to International organization, world peace, united nation structure and function, UNO development and his parts and working, peace policy in UNO financial international institute and world bank.
6:-	M.A. III Semester	Paper 1:-	Indian government and politics	It enables the students to have knowledge of national movement in india, and constitution assembly working and process, fundamental right, duty and principle of state policy, union executive president, prime minister and council of ministers, union legislature working and challenge of casteism, regionalism, and corruption.
		Paper 2:-	Indian foreign policy theory and practice	It enables the students to have knowledge of foreign policy development nature and meaning internal and external objective, india and American foreign relation, Russia, china, and Pakistan, in diplomacy, bangladesh, srilanka, Nepal, Bhutan, sweet relation in Indian foreign policy.

		Paper 3:-	International law	It enables the students to have knowledge of international law development meaning definition and nature Grotius contribution, national and international law, limitation and characteristics and neutral state treaties meaning definitions and classification recognition meaning and definition condition of diplomatic asylum,.
		Paper 4:-	Federal system in india	It enables the students to have knowledge of federal system meaning definition and future, federal and unitary federal, sarkariya committee report legislative, administrative and financial, planned economic development and politics, regional political parties in democracy.
7:-	M.A. IV Semester	Paper 1:-	State politics in india	It enables the students to have knowledge of state politics, its process and development, appointment of governor and power, chief minister appointment power and function, state council of ministers, function and power, state legislative function, state judiciary function and power and inter state council, state election commission.
		Paper 2:-	Diplomacy theory and practice	It enables the students to have knowledge of diplomacy, its functions, types of diplomacy old and new, personal and open diplomacy, its working and process.
		Paper 3:-	Human rights problems and prospects	It enables the students to have knowledge of human rights and constitution, rights of woman and child, UNO and human right process and problem, collective rights.
		Paper 4:-	Local self government in India	It helps student to understand importance of local self government, 73th and 74 th constitution and amendment rural and urban local self government, bureaucracy and right to information.

Department of Geography

<p>PROGRAMME OUTCOMES (B.A. with geography as an optional subject)</p>
<p>PO.1-To impart knowledge related to demographical and geographical part of our country. PO.2-To make them aware about types of soil and forest of tropical region. PO.3-To make them aware about the natural calamities that take place in our country. PO.4- It helps them to understand problems of global warming and disaster management.</p>

COURSE OUTCOMES

(B.A.with geography as an optional subject)

S.No.	Name of course	Year	Name of Subject /Paper	Course outcome
1.	B.A. I	Paper 1	Physical Geography	It helps students to give the knowledge of Physical Properties of the earth surface, to acquire the knowledge of Lithosphere, Fundamental concepts of earth, landform formation, Water, winds and climate features of the earth.
2	B.A. I	Paper 2	Human Geography	Students get the knowledge of man —environment relationship and human capabilities to adopt and modify the environment under its various conditions from primitive lifestyle to modern living.This Course is helpful to identify and understand environment and population in terms of their quality and spatial distribution pattern and to comprehend the contemporary issues facing the globalcommunity.
3	B.A.II	Paper 1	Economic and resources Geography	It helps in understanding concept of economic activity, factors affecting location of economic activity. This course provides knowledge about different types of economic activities.
4	B.A.II	Paper 2	Geography of India	This course is framed in such a way the student can understand the comprehensive, integrated and empirically based profile of India with the regional characteristics. The study of India helps the student for the preparation of competitive examination as most of the questions of GK papercovers geography of India

5.	B.A.III	Paper 1	Remote Sensing and GIS	This course provides knowledge about the principles of remote sensing ,sensor resolution and image referencing schemes.
6.	B.A.III	Paper 2	Geography of Chhattisgarh	The regional feature of the state Chhattisgarh a fundamental requirement for the students of the CG,as in many of the state level competitive examination geography of Chhattisgarh is the core subject. Thus the study of the Geography of Chhattisgarh not only connect the students with their local scenario, geographical aspects of various issues of developments but also helpful for them in the preparation of competitive examination
7.	B.A.I/II/III		Practical Geography	Student can learn the fundamentals of the surveying, Map cartography, and scale.Today is the era of technology and remote sensing &GIS is the basic tools for the analysis of resource appraisal and many more application .Student get the fundamental knowledge of remote sensing technology so that they may be able to get admission for the higher studies in the RS-GIS.

Name of Program: Post Graduate Diploma in Computer Applications (PGDCA)

Program Outcomes

1. Students are eligible to pursue MCA (Lateral Entry) and apply for jobs in various multinational companies, industries, banks.
2. They can start their own business in web development and software development.
3. Students are able to use their knowledge to develop different web and windows based applications.
4. Students can create database, websites and applications for their clients.
5. Students can also pursue the career of computer operators.
6. Students can also become network administrators.

Program Specific Outcomes

1. Students become eligible to pursue MCA and M.Sc. in Information Technology.
2. They can also join MBA.

Course Outcomes

1. The students acquire knowledge about basics and fundamentals of information technology, basic programming concepts of procedure oriented and object oriented languages (C and Java), fundamentals of web programming (HTML, CSS, Javascript and PHP), DataBase management system, computer networking and computer based accounting information.
2. Students learn to develop and debug codes in different languages.
3. Students are able to design web based applications using PHP, HTML, DHTML, CSS and Javascript.