Programme Outcome of B.A.

1. The B.A. graduates get more acquainted with the norms of the social sciences, literature and humanities.

2. The programme empowers graduates with comparatively easy optional subjects for allied/administrative services.

3. As they are more acquainted with the social, literary and cultural tradition, they prove to be a valuable human resource for NGOs.

4. The B.A. graduates are more alert towards the contemporary social, political and cultural development around them. Hence they develop special sensibility to critically evaluate Geo-political – economical – cultural problems. This makes them more fit to be employed in the field of print and electronic media.

5. As other programmes, this also teaches and preaches human values which forms the base to be a good citizen.

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Programme outcome of B.Com

1. After completing three years of bachelor degree in Commerce, students would gain a thorough knowledge in commerce, business, finance, economics, auditing and marketing.

2. Strengthens the capacities of the students in varied area of commerce and industry aiming towards holistic development of learners.

3. Make students industry ready and equip them to face the modern-day challenges in commerce and business.

4. After the completion of this programme students will become well prepared to take up various professional assignments and jobs in medium to large scale business establishments, industries, commercial set-ups and other commercial sectors such as banking, insurance, stock exchange, NBFC's as accountants, investment bankers, business analysts, finance officers, financial advisors etc.

5. The programme empowers the students to appear for various competitive examinations or choose a course of their choice such as CA,CS, ICWA,MBA,M.Com etc.

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वाणिज्य विभाग
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Programme outcome of B.Sc.

1. The B.Sc. programme develops scientific temperament and attitude among the science graduates.
2. The qualities of science- observation, precision, analytical mind, logical thinking, clarity of thoughts and expression, systematic approach, qualitative and quantitative decision making are enlarged.
3. Appreciates the role of science in society and its personal, social and global importance and how society influences scientific research.
4. This programme explains scientific procedure and experimental observation and also trains the learners to extract information, formulate and solve problems in a systematic and logical manner.
5. After completion of the B.Sc. degree the learners to perform jobs in diverse field such as industries, education, banking, development planning, business, public service, self business etc efficiently.
6. After completion of this programme students also have the option to go for higher studies.

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Program कार्यक्रम	Course पाठ्यक्रम	OutCome परिणाम
बी.ए. / बी.एस.–सी. / बी. कॉम. भाग– एक	आधार पाठ्यक्रम हिन्दी भाषा (पेपर कोड–0101) इकाई –1 (क) पल्लवन, पत्राचार, अनुवाद एवं पारिभाषिक शब्दावली एवं हिन्दी में पदनाम (ख) ईदगाह (कहानी)–मुंशी प्रेमचंद इकाई –2 (क) शब्द शुद्धि, वाक्य शुद्धि, शब्द ज्ञान– पयार्यवाची शब्द, विलोम शब्द, अनेकार्थी शब्द, समश्रुत शब्द, अनेक शब्दों के लिए एक शब्द एवं मुहावरे एवं लोकोक्तियाँ (ख) भारत वंदना (कविता)– सूर्यकांत त्रिपाठी निराला इकाई –3 (क) देवनागरी लिपि– नामकरण, स्वरूप एवं देवनागरी लिपि की विशेषताएँ, हिन्दी अपठित गद्यांश, संक्षेपण, हिन्दी में संक्षिप्तीकरण (ख) भोलाराम का जीव (व्यंग्य) –हरिशंकर परसाई इकाई –4 (क) कम्प्यूटर का परिचय एवं कम्प्यूटर में हिन्दी का अनुप्रयोग (ख) शिकागो से स्वामी विवेकानंद का पत्र इकाई –5 (क) मानक हिन्दी भाषा का अर्थ, स्वरूप, विशेषताएँ, मानक, उपमानक, अमानक भाषा (ख) सामाजिक गतिशीलता– प्राचीनकाल, मध्यकाल, आधुनिककाल।	वी.ए. /वी.एस.–सी./ बी. कॉम. भाग– एक, आधार पाठ्यकम हिन्दी भाषा के पाठ्यविषय में निहित व्याकरणिक खण्ड के अध्ययन से छात्रों को व्याकरण का बुनियादी ज्ञान, सम्प्रेषण कौशल का विकास, भाषायी दक्षता का विकास, शब्द भण्डार में वृद्धि, भाषागत अशुद्धियों का निराकरण, लिपि के इतिहास का ज्ञान, लिपि में होने वाले परिवर्तनों की जानकारी, देवनागरी लिपि की विशेषताएँ, कम्प्यूटर ज्ञान तथा मानक भाषा का ज्ञान प्राप्त होगा। पाठ्यक्रम में निहित साहित्यिक रचनाओं के अध्ययन से छात्र–छात्राएँ साहित्य के सौन्दर्य का रसास्वादन कर सकेंगे। साथ ही उन्हें बालमनोविज्ञान का परिचय, मानव–मूल्यों का ज्ञान, प्रेम एवं कर्तव्यनिष्ठता जैसे गुणों का विकास, देशभक्ति की भावना का विकास, समाज में हो रहे भ्रष्टाचार की समस्या तथा उससे उत्पन्न विकृतियों के प्रति चेतना का जागरण, विवेकानंद जैसे महान व्यक्ति के व्यक्तित्व से प्रेरणा, भारत के गौरवशाली इतिहास मध्य भारत में उपजी सामाजिक समस्याएँ तथा आधुनिक काल में हो रहे परिवर्तनों के संबंध में चेतना का विकास होगा।

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Program कार्यक्रम	Program कार्यक्रम	Program कार्यक्रम
बी.ए. / बी.एस.–सी./ बी.कॉम. भाग– दो	आधार पाठ्यक्रम हिन्दी भाषा (पेपर कोड–0171) इकाई 1. चोरी और प्रायश्चित– महात्मा गांधी /कार्यालयीन भाषा, मीडिया की भाषा इकाई 2. युवकों का समाज में स्थान– आचार्य नरेन्द्रदेव/ वित्त एवं वाणिज्य की भाषा, मशीनी भाषा इकाई 3. मातृभूमि–वासुदेवशरण अग्रवाल /संज्ञा, सर्वनाम, विशेषण, क्रिया विशेषण इकाई 4. डॉ. खूबचंद बघेल हरिठाकुर/समास, संधि इकाई 5. संभाषण कुशलता– पं. माधवराव सप्रे /अनुवाद– अंग्रेजी से हिन्दी में अनुवाद, संक्षिप्तियाँ	बी.ए. /बी.एस.–सी./ बी. कॉम. भाग–दो आधार पाठ्यक्रम हिन्दी भाषा के पाठ्यविषय में निहित महापुरूषों की जीवनी, आत्मकथा तथा सामाजिक विषयो पर आधारित निबंधों के माध्यम से छात्र–छात्राओ में नैतिक मूल्यों, सामाजिक उत्तरदायित्व, देशभक्ति, नेतृत्व क्षमता तथा व्यवहार कुशलता का विकास होगा। भाषा तथा व्याकरण खण्ड के अध्ययन से हिन्दी भाषा संबंधी ज्ञान में अभिवृद्धि, शब्द ज्ञान का विकास, अनुवाद क्षमता का विकास, अभिव्यक्ति क्षमता का विकास तथा प्रतियोगी परिक्षाओं के दुष्टिकोण से ज्ञान प्राप्त होगा।

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Program कार्यक्रम	Course पाठ्यक्रम	OutCome परिणाम
बी.ए. / बी.एस.–सी. / बी.कॉम. भाग– तीन	आधार पाठ्यक्रम हिन्दी भाषा (पेपर कोड–0231) इकाई –1 (क) भारतमाता –सुमित्रानंदन पंत (ख) कथन की शैलियाँ 1. विवरणात्मक शैली 2.मूल्यांकन शैली 3. व्याख्यात्मक शैली 4.विचारात्मक शैली इकाई –2 (क) सूखी डाली– उपेन्द्रनाथ अश्क (ख) विभिन्न संरचनाएँ 1. विनम्रता सूचक संरचना 2. विधि सूचक संरचना 2. निषेध परक संरचना 4. काल–बोधक संरचना 5 स्थान–बोधक संरचना 6. दिशा बोधक संरचना 7. कार्य–कारण संबंध संरचना 8. अनुकम संरचना इकाई –3 (क) वसीयत – मालती जोशी (ख) कार्यालयीन पत्र और आलेख 1. परिपत्र 2. आदेश 3. अधिसूचना 4. ज्ञापन 5. अनुस्मारक 6. ज्ञापन इकाई –4 (क) योग की शक्ति– हरिवंश राय बच्चन (ख) अनुवाद – स्वरूप एवं परिभाषा, उद्देश्य, स्त्रोत भाषा और लक्ष्य भाषा, अच्छे अनुवाद की विशेषताएँ, अनुवाद प्रक्रिया, अनुवादक इकाई –5 (क) संस्कृति और राष्ट्रीय एकीकरण– योगेश अटल (ख) घटनाओं, समारोहों आदि का प्रतिवेदन, विभिन्न प्रकार के निमंत्रण–पत्र	बी.ए. /बी.एस.–सी./ बी. कॉम. भाग–तीन आधार पाठ्यविषय हिन्दी भाषा के पाठ्यक्रम में निहित साहित्यिक रचनाओं के अध्ययन से छात्र हिन्दी साहित्य के मर्म को समझ पाएँगे। इन रचनाओं से उनमें राष्ट्रीयता की भावना का विकास होगा, उनमें पारिवारिक व सांस्कृतिक मूल्यों का विकास होगा। व्याकरणिक खण्ड के अध्ययन से छात्र–छात्राएँ भाषा प्रयोग की व्यावहारिक प्रणालियों से परिचित हो पाएँगे। भाषागत अशुद्धियों को दूर करने में, अनुवाद प्रक्रिया को जानने तथा पत्र लेखन कौशल के विकास में पाठ्य– विषय सहायक है।

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Program कार्यक्रम	Course पाठ्यक्रम	OutCome परिणाम
बी.ए. भाग–एक	हिन्दी साहित्य **प्रथम–प्रश्न पत्र** **(प्राचीन हिन्दी काव्य)** **(पेपर कोड–0103)** पाठ्य विषय– 1. कबीर (कबीर–कांतिकुमार जैन) प्रारंभिक 50 साखियाँ) 2. जायसी (संक्षिप्त पद्मावत–श्यामसुंदर दास) नागमति वियोग वर्णन 3. सूर (भ्रमर गीत सार– सं. आचार्य रामचन्द्र शुक्ल) प्रारंभिक–25 पद 4. तुलसी– "रामचरितमानस" के अयोध्याकांड से प्रारंभिक 25 दोहे चौपाई, छंद सहित 5. घनानंद (घनानंद– सं. विश्वनाथ प्रसाद मिश्र) प्रारंभिक 25 छनद द्रुत पाठ के कवि– 1. विद्यापति 2. रहीम 3. रसखान	बी.ए. भाग– एक हिन्दी साहित्य के प्रथम–प्रश्न पत्र के पाठ्यविषय में निहित साहित्यिक रचनाओं के अध्ययन से छात्र–छात्राएँ हिन्दी साहित्य के मध्यकाल के महान कवियों के जीवनवृत, उनके नीतिगत उपदेशों तथा कालजयी रचना का ज्ञान अर्जित कर पाएँगे। इन रचनाओं के माध्यम से छात्र–छात्राएँ समाज में फैली कुरीतियों, छुआछूत, अंधविश्वास आदि को दूर करने की शिक्षा, ऐतिहासिक एवं आध्यात्मिक की लौकिक एवं अलौकिक प्रेम की पराकाष्ठा, प्रेम में समपर्ण की भावना, भक्ति व साधना का अद्भुत समन्वय, धर्म, कर्म, नीति, प्रेम त्याग एवं समर्पण की भावना को समझने में समर्थ हो पाएँगे।

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Program कार्यक्रम	Course पाठ्यक्रम	OutCome परिणाम
बी.ए. भाग–एक	हिन्दी साहित्य द्वितीय प्रश्न पत्र (हिन्दी कथा साहित्य) (पेपर कोड–0104) पाठ्य विषय– उपन्यास 1. गबन – प्रेमचंद कहानी 1. प्रेमचंद – कफन 2. जयशंकर प्रसाद – आकाशदीप 3. यशपाल – परदा 4. फणीश्वरनाथ रेणु – ठेस 5. मोहन राकेश – मलवे का मालिक 6. भीष्म साहनी – चीफ की दावत 7. राजेन्द्र यादव – बिरादरी बाहर 8. रागेय राघव – गदल द्रुत पाठ के कथाकार– 1. उपेन्द्रनाथ अश्क 2. बाल शौरी रेड्डी 3. शिवानी	बी.ए. भाग– एक हिन्दी साहित्य के द्वितीय–प्रश्न पत्र के पाठ्यविषय में निहित साहित्यिक रचनाओं के अध्ययन से छात्र–छात्राएँ हिन्दी साहित्य के महान कथाकारों के व्यक्तित्व एवं कृतित्व से परिचित हो सकेंगे तथा कथा साहित्य के मर्म को समझा पाएँगे। इसके साथ ही उपन्यास एवं कहानी के माध्यम से समाज में व्याप्त रिश्वत खोरी, भ्रष्टाचार, धनलोलुपता, कर्ज की समस्या, अमानवीयता, गरीबी आदि समस्याओं से अवगत हो सकेंगे। कथा साहित्य की कहानियों के माध्यम से छात्र–छात्राएँ सामाजिक बुराइयों से दूर रहने की शिक्षा प्राप्त करेंगे।

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शास. महावि. कोतरी, जि.-मुंगेली (छ.ग.)

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Government College, Kotri
Distt. Mungeli (C.G.)

शासकीय महाविद्यालय, कोतरी, जिला–मुंगेली (छ.ग.)

Program कार्यक्रम	Course पाठ्यक्रम	OutCome परिणाम
बी.ए. भाग–दो	हिन्दी साहित्य प्रथम–प्रश्न पत्र (अर्वाचीन हिन्दी काव्य) (पेपर कोड–0173) पाठ्य विषय– 1. मैथलीशरण गुप्त – भारत भारती की कविताएँ। 2.सूर्यकांत त्रिपाठी निराला– (1) सखि बसंत आया (2) वर दे वीण ावादिनी वर द (3) हिन्दी के सुमनों के प्रति पत्र (4) तोड़ती पत्थर (5) राजे ने अपनी रखवाली की। 3. सुमित्रानंदन पंत– (1) बादल (2) परिवर्तन–2 पद (3) ताज (4)झंझा में नीम (5) भारत भारती 4. माखनलाल चतुर्वेदी– (1) बलि पंथी से (2) सांझ और ढोलक की थापें (3) मैं बेच रही हूँ दही (4) उलाहना (5) निः शस्त्र सेनानी 5. अज्ञेय– (1) सबेरे उठा तो धूप खिली थी (2) साम्राज्ञी का नैवेद्य दान (3) घर (4) चांदनी जी लो (5) दूर्वांचल द्रुतपाठ के कवि – 1. अध्योध्या सिंह उपाध्याय ''हरिऔध'' 2. सुभद्रा कुमारी चौहान 3. श्रीकांत वर्मा	बी.ए. भाग– दो, हिन्दी साहित्य के प्रथम–प्रश्न पत्र के पाठ्यविषय में निहित साहित्यिक रचनाओं के अध्ययन से छात्र–छात्राएँ हिन्दी साहित्य के आधुनिक काल के महान कवियों के जीवनवृत का अध्ययन तथा कालजयी रचना का रसास्वादन कर पाएँगे। अर्वाचीन हिन्दी काव्य का अध्ययन आधुनिकता की समस्त विशेषताओं को समेटे हुए है। इसके अध्ययन से छात्र– छात्राओं को साहित्य की विकास यात्रा तथा आधुनिक भाव बोध का ज्ञान होगा। स्वतंत्रता प्राप्ति के पूर्व की भाव, भाषा शिल्प की जानकारी प्राप्त होगी। राष्ट्रीयता एवं राष्ट्रप्रेम की भावना, त्याग, बलिदानी भावना जागृत करने में राष्ट्रीय काव्य धारा की कविताएं सक्षम है। छायावादी, प्रगतिवादी एवं प्रयोगवादी अनुचिंतन विद्यार्थियों के लिए उपयोगी है।

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Program कार्यक्रम	Course पाठ्यक्रम	OutCome परिणाम
बी.ए. भाग–दो	हिन्दी साहित्य **द्वितीय–प्रश्न पत्र** **(हिन्दी निबंध तथा अन्य गद्य विधाएँ)** **(पेपर कोड–0174)** पाठ्य विषय– नाटक– अंधेर नगरी–भारतेन्दु हरिश्चंद्र निबंध– 1. क्रोध– आचार्य रामचंद्र शुक्ल 2. बसंत– डॉ. हजारी प्रसाद द्विवेदी 3. उस अमराई ने राम–राम कही है – डॉ. विद्यानिवास मिश्र 4. काव्येषु नाट्यम रम्यम– बाबू गुलाबराय 5. बेईमानी की परत– हरिशंकर परसाई एकांकी– 1. औरंगजेब की आखिरी रात – डॉ. रामकुमार वर्मा 2. स्ट्राईक– भुवनेश्वर 3. एक दिन– लक्ष्मीनारायण मिश्र 4- दस हजार– उदयशंकर भट्ट 5- मम्मी ठकुराईन–डॉ. लक्ष्मीनारायण लाल दुतपाठ के गद्यकार– 1.राहुल सांकृत्यायन 2. महादेवी वर्मा 3. हबीब तनवीर	बी.ए. भाग– दो, हिन्दी साहित्य के द्वितीय–प्रश्न पत्र के पाठ्यविषय में निहित साहित्यिक रचनाओं के अध्ययन से छात्र–छात्राएँ हिन्दी साहित्य के गद्यविधाओं का परिचय नाटक, वैचारिक निबंधों, ललित निबंधों तथा व्यंग्य विधा का ज्ञान अर्जन तथा रसास्वादन कर पाएँगे। पाठ्यविषय में निहित नाटक, निबंध तथा एकांकी के माध्यम से छात्रों में वैचारिकता का विकास हो सकेगा। अंधेर नगरी के माध्यम से ब्रिटिश शासन की अव्यवस्था, अत्याचार, रिश्वतखोरी और शोषण को प्रतीकात्मक रूप में प्रस्तुत किया गया है जो वर्तमान समय में भी अपनी प्रासंगिकता बनाए हुए है तथा छात्रों को समाज में हो रहे अनैतिकता के प्रति जागरूक करती है। भारतीय ग्राम्य परिवेश में अमराई की महत्ता और उसकी धीरे–धीरे नष्ट होती संस्कृति की ओर ध्यान भी ध्यानआकृष्ट किया गया है। एकांकी के माध्यम से जीवन की नश्वरता, विक्षिप्त मानसिक स्थिति, आधुनिक मानव जीवन, संस्कृति आदि को लाक्षणिक एवं व्यंग्य के माध्यम से समझाने का प्रयास किया गया है जो कि विद्यार्थियों के ज्ञानवर्धन में सहायक है।

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शासकीय महाविद्यालय, कोतरी, जिला–मुंगेली (छ.ग.)

Program कार्यक्रम	Course पाठ्यक्रम	OutCome परिणाम
बी.ए. भाग–तीन	हिन्दी साहित्य प्रथम–प्रश्न पत्र (जनपदीय भाषा–साहित्य (छत्तीसगढ़ी) (पेपर कोड–0233) पाठ्य विषय– (1) प्राचीन कवि संत धर्मदास के 3 पद 1. गुरू पइयां लागों नाम लखा दीजो हो। 2. नैन आगे ख्याल घनेरा 3. भजन करौ भाई रे, अइसन तन पाय के (2) लखनलाल गुप्त का गद्य– 1. सोनपान (3) अर्वाचीन रचनाकार डॉ. सत्यभामा आडिल रचित गद्य 1. सीख–सीख के गोठ (4) डॉ. विनय पाठक की कविताएँ 1. तँय उठथस सुरुज उथे 2. एक किसिम के नियाव (5) मुकुंद कौशल – छत्तीसगढ़ी गजल "छै बित्ता के मनखे देखों.....से– मछरी मन लाख लेथे–– तक द्रुतपाठ के रचनाकार 1. सुन्दरलाल शर्मा 2. कपिलनाथ कश्यप 3. रामचन्द्र देशमुख	बी.ए. भाग– तीन, हिन्दी साहित्य के प्रथम–प्रश्न पत्र के पाठ्यविषय में निहित साहित्यिक रचनाओं के अध्ययन से छात्र–छात्राएँ छत्तीसगढ़ी भाषा का इतिहास, छत्तीसगढ़ी भाषा में रचित साहित्य का इतिहास तथा छत्तीसगढ़ी भाषा के प्रमुख प्राचीन एवं अर्वाचीन रचनाकारों की कृतियों का रसास्वादन कर पाएँगे। जनपदीय भाषा छत्तीसगढ़ी निरंतर विकास की ओर अग्रसर हो रही हैं, अस्तु इस भाषा का और इसमें रचित ऐतिहासिक विकास स्पष्ट करते हंए इनसे संबंधित प्रमुख रचनाकारों का आलोचनात्मक अनुशीलन करना छत्तीसगढी भाषा के साथ ही साथ हिन्दी साहित्य को समृद्ध करने में हितकर होगा। छत्तीसगढ़, अंचल के विविध स्वरूप, ऐतिहासिक पृष्ठभूमि, सांस्कृतिक स्थिति एवं, लोक–जीवन की विशिष्टताओं का रेखांकन, जनपदीय भाषा छत्तीसगढ़ी के अध्ययनकर्ता के भीतर एक रस का संचार करती है। लोक संस्कृति एवं लोक जीवन की वर्तमान में प्रासंगिकता तो है ही यह भविष्य के लिए भी मार्दर्शक की भूमिका का निर्वाह करता है।

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Government College, Kotri
Distt. Mungeli (C.G.)

शासकीय महाविद्यालय, कोतरी, जिला–मुंगेली (छ.ग.)

Program कार्यक्रम	Course पाठ्यक्रम	OutCome परिणाम
बी.ए. भाग–तीन	हिन्दी साहित्य द्वितीय–प्रश्न पत्र (हिन्दी भाषा– साहित्य का इतिहास तथा काव्यांग विवेचन) **(पेपर कोड–0234)** पाठ्य विषय– (क) हिन्दी भाषा का स्वरूप विकास– हिन्दी की उत्पत्ति, हिन्दी की मूल आकर भाषाएँ तीी विभिन्न विभाषाओं का विकास। हिन्दी भाषा के विभिन्न रूप– 1. बोलचाल की भाषा 2. रचनात्मक भाषा 3. राष्ट्रभाषा 4. राज भाषा 5. सम्पर्क भाषा 6 संचार भाषा हिन्दी का शब्द भण्डार– तत्सम, तद्भव, देशज, आगत शब्दावली। (ख) हिन्दी साहित्य का इतिहास– आदिकाल, पूर्व मध्यकाल, उत्तर मध्यकाल और आधुनिक काल की सामाजिक, सांस्कृतिक पृष्ठभूमि, प्रमुख युग प्रवृत्तियाँ, विशिष्ट रचनाकार एवं उनकी प्रतिनिधि कृतियाँ,साहित्यिक विशेषताएँ। (ग) काव्यांग– काव्य का स्वरूप एवं प्रयोजन। श्रस के विभिन्न भेद, विभिन्न अंग, विभावादि तथा उदाहरण। प्रमुख 5 छंद– दोहा, सोरठा, चौपाई, कुण्डलियाँ, सवैया। अर्थालंकार – उपमा, रूपक, उत्प्रेक्षा, अतिशयोक्ति, भ्रांतिमान।	बी.ए. भाग– तीन, हिन्दी साहित्य के द्वितीय–प्रश्न पत्र के पाठ्यविषय में निहित साहित्यिक रचनाओं के अध्ययन से छात्र–छात्राएँ हिन्दी भाषा तथा हिन्दी साहित्य के समृद्ध इतिहास से परिचित हो सकेंगे। हिन्दी भाषा का इतिहास जितना प्राचीन है, उतना ही गूढ़ गहन भी इसमें रचित साहित्य ने लगभग डेढ़ हजार वर्षो का इतिहास पूरा कर लिया हैं। इसलिए हिन्दी भाषा और साहित्य के ऐतिहासिक विवेचन की बड़ी आवश्यकता है। इसी के साथ–साथ हिन्दी अपना जो स्वतंत्र साहित्य शास्त्र निर्मित किया है, उसे भी रूपायित करने की आवश्यकता हैं। इसके संज्ञान द्वारा विद्यार्थी की मर्मग्राहिणी प्रतिभा का विकास होगा और ऐतिहासिक प्ररिप्रेक्ष्य में शुद्ध साहित्यिक विवेक का सन्निवेश होगा।

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...स. महावि. कोतरी, जि.-मुंगेली (छ.ग.)

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GOVT COLLEGE KOTRI DIST – MUNGELI (C.G.)

DEPARTMENT OF ENGLISH

COURSE OUTCOME

B.A. I/B.SC-I/B.Com-I FOUNDATION COURSE, ENGLISH LANGUAGE

1. Students will be able to write paragraphs and letters on specific topics.
2. Students will gain knowledge about historical and cultural heritage.
3. Students will develop skills to solve grammatical questions and increase vocabulary in English.
4. Develop an enhancement of the four basics of language –reading,writing,speaking and listening.
5. Understand the English Language and have increased poterntial to communicate with accurate grammar and appropriate vocabulary.

B.A. II/B.SC-II/B.Com-II FOUNDATION COURSE, ENGLISH LANGUAGE

1. Able to discuss and respond to the content of the passage.
2. Develop writing skill through exercise in grammar and composition.
3. Students will be able to write report on a given topic.
4. To give the Students a first-hand knowledge of Major Scientists of India and their contribution in Scientific Research.
5. To make them able to write Precis of given passage.

B.A.II I/B.SC-III/B.Com-III FOUNDATION COURSE, ENGLISH LANGUAGE

1 .Familarize with values of Indian Life and social system.
2. Develop linguistic competition and communication skill.
3. Able to write precise from a given passage.
4. Develop the skill to write essay on any given topic.
5. To make them able to solve the Grammatical questions.

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Course Outcome

B.A. I English Literature (Paper-I)

Literature In English from 1550-1750

1. To enhance students imagination and creativity.

2. To analyze the various elements of poetry, such as diction, tone, form, imagery, figure of speech, Symbolism, theme etc.

3. To make the students aware about the historical and literary topics of the period.

4. 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.

B.A. I English Literature (Paper-II)

Literature in English from 1750-1900

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 develop creative thinking.

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B.A. II English Literature (Paper-I)

Modern English Literatures

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 develop literary appreciation and refine reading taste.

B.A. II English Literature (Paper-II)

Modern English Literatures

1. To introduce the students about the various literary terms.

2. To make the students able to enlarge their vocabulary and understand the structure of sentences and grasp the idea of the author.

3. To examine the works of selected writers of the period .

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GOVT COLLEGE KOTRI DIST – MUNGELI (C.G.)

DEPARTMENT OF GEOGRAPHY

COURSE OUTCOME

B.A. Part I PAPER – I
PHYSICAL GEOGRAPHY

1. Students will gain knowledge on the Nature and Scope of Physical Geography. Origin of the Earth, Geological Time Scale, Earth's Interior, Continental Drift Theory (Wegner), Plate Tectonics, Isostasy.

2. Students will know about_ earth movements: Earthquakes and Volcanoes. Rocks, Weathering, Erosion, and Normal cycle of erosion, Evaluation of landscapes- Fluvial, Arid, Glacial, Karts and Coastal landscape.

3. Get knowledge of_elements of Weather and Climate, Composition and Structure of the Atmosphere. World patterns of Atmospheric Temperature, Pressure, and Wind.

Know about Atmospheric Moisture, and Disturbances, Climatic Classification (Koppen and Thornthwait) types, characteristics and World patterns.

Knowledge of Surface relief of Pacific Ocean, Atlantic Ocean, and Indian Ocean. Distribution of Temperature and Salinity of oceans and seas, Currents and Tides, Ocean Deposits and Coral Reefs, and Oceanic Resources.

B.A. Part I PAPER – II
HUMAN GEOGRAPHY

1. Understand about Man - environment relationship; Determinism, Possibilism, and Probabilism; Human Development Index (HDI).

2. Knowledge about Classification of Human Races – their Characteristics and Distribution; Human adaptation to environment: Eskimos, Bushman, Pigmy, Gond, Masai, and Naga.

Learn about Growth, Density and Distribution of World Population and factors influencing Spatial distribution; Over , Under, and Optimum Population; Migration of Population.

Get knowledge of Settlements – Urban Settlements: Urbanization, Evolution and Classification, Trends of Urbanization. Rural settlements: Characteristics, Types and Regional Pattern, Rural Houses in India - Types, Classification and Regional Pattern.

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भूगोल विभाग
शा.महा.कोतरी जिला मुंगेली

Understand Issues of Global Warming, Climate Change, Deforestation, Desertification, Air, Water and Soil Pollution.

B.A. Part II PAPER - I
ECONOMIC AND RESOURCES GEOGRAPHY

1. Students will know about economic geography; Main concepts of economic geography; Resource: concept and classification; Natural resources: soil, forest and water.
2. Students will gain knowledge Mineral resources: iron ore and bauxite; Power resources: coal, petroleum and hydro electricity; Resource conservation; Principal crops: wheat, rice, sugarcane and tea
3. Learn about Agricultural regions of the world (Derwent Whittlesey); Theory of agricultural location (Von Thunen); Theory of industrial location (Weber); Major industries: iron and steel, textiles, petrochemical and sugar; industrial regions of the world.
4. Understand World transportation: major trans-continental railways, sea and air routes; International trade: patterns and trends; Major trade blocks: LAFTA, EEC, ASEAN; Effect of globalization on developing countries.
5. Learn about Conservation of resources; evolution of the concept, principles, philosophy, and approach to conservation, resources conservation and practices. Policy making and sustainable development.

B.A. Part II PAPER - II
GEOGRAPHY OF INDIA

Learn about Physical Features: Structure, Relief, Climate, Physiographic Regions, Drainage, Climate-origin and mechanism of monsoon, and regional and Seasonal variation.

Students will know about Natural Resources :- Soils, Water Resources, Forests & Mineral and Power resources.

Understand Cultural Features : Population - Growth, Density and Distribution. Agriculture - Major crops, impact of Green Revolution and Agricultural regions.

Knowledge about Industries Localization, Development & Production - Iron and steel, Cotton Textile, Cement, Sugar, Transport, Foreign Trade. Industrial Region.

Detailed Study of the following regions of India : Kashmir Valley, North- East Region, Chhota Nagpur Plateau, Thar Desert, Islands of India.

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शा.महा.कोतरी जिला मुंगेली

B.A. III PAPER I

सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली

1. छात्र-छात्राएं सुदूर संवेदन तथा आधारभूत संकल्पना के बारे में ज्ञान प्राप्त करेंगे।
2. सुदूर संवेदन के प्रकार,सुदूर संवेदन उपग्रह तथा संवेदक की विशेषताओं के बारे में पूर्ण रूप से जानकारी प्राप्त कर सकेंगे।
3. अंकीय बिंब प्रक्रिया व अन्य तकनीक संसाधन मानचित्र एवं पर्यावरण नियंत्रण में सुदूर संवेदन अनुप्रयोग भारत में सुदूर संवेदन तथा विकास के बारे में अवगत होंगे।
4. भौगोलिक सूचना प्रणाली भू सूचना की परिभाषा,महत्व,क्षेत्र तथा तथा भौगोलिक सूचना प्रणाली का इतिहास से परिचित होंगे।
5. आंकड़ा मॉडल एवं आंकड़ा विश्लेषण के बारे में जानकारी प्राप्त कर पाएंगे।

B.A.III PAPER II

छत्तीसगढ़ का भूगोल

विद्यार्थी भौतिक स्वरूप भूमि की संरचना तथा जलवायु अपवाह के बारे में ज्ञान प्राप्त कर पाएंगे।
प्राकृतिक संसाधन जैसे मिट्टी जल संसाधन वन खनिज संसाधन के बारे में जानकारी प्राप्त कर पाएंगे।
विद्यार्थी छत्तीसगढ़ के कृषि जनसंख्या जनजाति जनसंख्या ग्रामीण एवं नगरीय जनसंख्या से
रिचित हो पाएंगे।
विद्यार्थी छत्तीसगढ़ के उद्योग जैसे लोहा इस्पात उद्योग, सीमेंट ,चीनी, एलमुनियम छत्तीसगढ़ के
द्योगिक प्रदेश से परीक्षित होंगे।
विद्यार्थी छत्तीसगढ़ के परिवहन व्यापार पर्यटन एवं सामाजिक आर्थिक विकास के बारे में जानकारी
प्त कर पाएंगे।

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Department of Chemistry Programme Outcomes:

B.Sc. Chemistry (Department of Chemistry) After successful completion of three year (under graduate) degree program in Chemistry a student should be able to:

PO1.	Understand the concept of chemistry to inter relate and interact to the other subject like mathematics, physics, biological science etc.
PO2.	Apply appropriate techniques for the qualitative and quantitative analysis of chemicals in laboratories and in industries
PO3.	Develops analytical skills and problem solving skills requiring application of chemical principles
PO4.	After completion of degree, students gained the theoretical as well as practical knowledge of handling chemicals
PO5.	Understand the importance of the elements in the periodic table including their physical and chemical nature and role in the daily life.
PO6.	Learn the laboratory skills and safely to transfer and interpret knowledge entirely in the working environment.
PO7.	Solve the problem and also think methodically, independently and draw a logical conclusion.
PO8.	Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reactions.
PO9.	Find out the green route for chemical reaction for sustainable development.
PO10.	To inculcate the scientific temperament in the students and outside the scientific community.
PO-11.	Use modern techniques, decent equipments and Chemistry softwares.

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B.Sc. Part-I Course Outcomes After successful completion of these courses students should have:

Paper I- INORGANIC CHEMISTRY Paper Code- 0795 Total Hours: 60 hrs. M.M. 33

CO1. Understanding of atomic structure, Trends in periodic table and applications to understand the periodic properties of elements.

CO2. Understand various types of theories and bonding in ionic solids

CO3. Knowledge regarding to various types of bonding in covalent molecules and VSEPR concept.

CO4. Knowledge of s-block elements and p block element of periodic table.

CO5. Basic idea of Chemistry of noble gases and theoretical principles in qualitative analysis.

Paper- II: ORGANIC CHEMISTRY Paper Code- 0796 Total Hours: 60 hrs. M.M. 33

CO1. Describe about basic organic chemistry involving bonding, intermediate and types of reactions.

CO2. Understand the Basic Knowledge of stereochemistry of organic compounds.

CO3. Knowledge of conformational analysis of alkanes.

CO4. Chemistry of aliphatic hydrocarbons, formation of sigma and pi bond

Understand Chemistry of alkenes, dienes and alkynes.

CO5. Concept of aromaticity in hydrocarbons.

Paper- III: PHYSICAL CHEMISTRY Paper Code- 0797 Total Hours: 60 hrs. M.M. 34

CO1. Understand the idea of basic mathematical concepts for chemists.

CO2. Understanding of various theories of gaseous state and concept of real gas and ideal gas.

CO3. Understand chemistry of liquid state, Colloidal and surface chemistry.

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CO4. Knowledge of solid state chemistry and techniques of powder pattern method.

CO5. Understand chemical kinetics rate constant and order of reactions. Characteristics of catalysis in chemical reactions.

Practical work Total Hours: 180 hrs. M.M. 50

INORGANIC PRACTICAL

CO1. Analyse qualitatively acid and basic radicals by semi-micro analysis method.

CO2. Different kind of titration like Acid-Base Titrations, Redox Titrationsand Iodo / Iodimetric Titrations

ORGANIC PRACTICAL

CO3. Calibration of thermometers.

CO4. Purification of organic compounds by crystallization using different solvents

CO5. Determination of the melting points of organic compounds.

CO6. Effect of impurities on the melting point – mixed melting point of two unknown organic compounds.

CO7. Determination of boiling point of liquid compounds.

CO8. Distillation (Demonstration)

CO9. Sublimation

CO10. Decolorisation and crystallization using charcoal.

CO11. Qualitative Analysis (Detection of elements (N, S and halogens) and functional groups (Phenolic, Carboxylic, Carbonyl, Esters, Carbohydrates, Amines, Amides, Nitro and Anilide) in simple organic compounds.)

PHYSICAL CHEMISTRY

CO12. Surface tension measurements.

CO13. To determine the % composition of a given mixture by Ostwald's viscometer.

CO14. To determine the specific rate of hydrolysis of methyl/ethyl acetate catalysed by hydrogen ions at room temperature.

CO15. To prepare colloidal solution of metal nanoparticles using capping agents.

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Course Outcomes B.Sc. Part Two Course Outcomes After successful completion of these courses students should be able to;

Paper- I : INORGANIC CHEMISTRY Paper Code- 0845 Total Hours: 60 hrs. M.M. 33

CO1. Understand chemistry of transition series elements.

CO2. Knowledge of oxidation and reduction and coordination compounds.

CO3. Knowledge of various theories of coordination chemistry.

CO4. Chemistry of lanthanide and actinides elements.

CO5. Understand Acid and bases and non-aqueous solvents.

Paper- II : ORGANIC CHEMISTRY Paper Code- 0846 Total Hours: 60 hrs. M.M. 33

CO1. Understand chemistry of alkyl and aryl halides.

CO2. Understand chemistry of alcohols and phenol.

CO3. . Understand chemistry of aldehyde, ketones and its use.

CO4. Understand chemistry of carboxylic acid, substituted carboxylic acids and there derivatives.

CO5. Understand Chemistry of organic compound of nitrogen.

Paper- III: PHYSICAL CHEMISTRY Paper Code- 0847 Total Hours: 60 hrs. M.M. 34

CO1. Understand first law of thermodynamics and thermo chemistry.

CO2. Knowledge of second law of thermdynamics, Elementary idea of Third law of Thermodynamics.

CO3. Understand concept of chemical equilibrium and ionic equilibria.

CO4. Understand concept of phase equilibrium and Nemst distribution law.

CO5. knowledge of photochemical reaction and concepts of photochemistry.

Practical work Total Hours: 180 hrs. M.M. 50

INORGANIC CHEMISTRY

CO1. Calibration of fractional weights, pipettes and burettes.

CO2. Preparation of standard solutions

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CO3. Quantitative volumetric estimation of vinegar, antacid tablets, chalk, hardness of water, ferrous & ferric and copper.

CO4. Qualitative semimicro analysis of mixtures containing 5 radicals

ORGANIC CHEMISTRY

CO5. Detection of elements (X, N, S).

CO6. Qualitative analysis of unknown organic compounds containing simple functional groups• (alcohols, carboxylic acids, phenols, nitro, amine, amide, and carbonyl compounds, carbohydrates)

CO7. Preparation of Organic Compounds.

PHYSICAL CHEMISTRY

CO8. Determination of the transition temperature of the given substance by thermometric/ dialometric method

CO9. To determine the solubility of benzoic acid at different temperature and to determine ΔH of the dissolution process.

CO10. To determine the enthalpy of neutralization of a weak acid/ weak base versus strong base/ strong acid and determine the enthalpy of ionization of the weak acid/ weak base.

CO11. To construct the phase diagram of two component system by cooling curve method.

CO12. Determination of molecular weight by Rast Camphor and Landsburger method

Course Outcomes B.Sc. Part-III Course Outcomes After successful completion of these courses students should be able to;

Paper- I : INORGANIC CHEMISTRY - I Paper Code- 0895 Total Hours: 60 hrs. M.M. 33

CO1. Knowledge of metal ligand bonding in transition metal complexes, Thermodynamics and kinetic aspects of metal complexes.

CO2. Knowledge of magnetic properties of transition metal complexes and electronic spectra of complexes.

CO3. Knowledge of chemistry of organometallic compounds.

CO4. Knowledge of bioinorganic chemistry.

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CO5. Knowledge of hard and soft acids and bases and silicones and phosphazenes.

Paper- II : ORGANIC CHEMISTRY Paper Code- 0896 Total Hours: 60 hrs. M.M. 33

CO1. Understand the concept of heterocyclic copmpounds and their synthesis methods.

CO2. Understand the basic idea of organometallic compounds, organosulphur compounds and organic synthesis via enolates.

CO3. Knowledge of biomolecules like carbohydrates, proteins and nucleic acid.

CO4. Understand Chemistry of synthetic polymers, polymerization reaction and synthetic dyes.

CO5. Understand infrared spectroscopy, UV-Visible spectroscopy, NMR spectroscopy and ^{13}CMR spectroscopy and magnetic resonance imaging.

Paper- III: PHYSICAL CHEMISTRY Paper Code- 0897 Total Hours: 60 hrs. M.M. 34

CO1. Understand black body radiation, De-Broglie's idea of matter waves, Schrödinger time independent wave equation and its applications under quantum mechanics.

CO2. Knowledge of quantum mechanical approach to molecular orbital theory, Orbitals and there characteristics.

CO3. Understand the electromagnetic radiation, Vibrational and Raman spectra.

CO4. Understand the Elecrolytic conductance, theories of strong electrolytes and migration of ions.

CO5. Understand the basic function of electrochemical cell,galvanic cells,single electrode potential and concentration cell.

Practical work Total Hours: 180 hrs. M.M. 50

INORGANIC CHEMISTRY

CO1. Synthesis and analysis of inorgaic complexes.

CO2. Gravimetric analysis of Ba as BaSO4.

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ORGANIC CHEMISTRY

CO3. Steam distillation: Naphthalene from its suspension in water, Clove oils from clove, Separation of ortho and para-nitrophenols.

CO4. Qualitative analysis.

CO5. Synthesis of organic compounds acetylation, aliphatic electrophilic substitution, aromatic electrophilic substitution, halogenation, oxidation, reduction,

PHYSICAL CHEMISTRY

CO6. Electrochemistry

CO7. Determine strength of given acid conductometrically using standard alkali solution.

CO8. Separation of fluorescein and methelene blue by column chromatography.

CO9. Study of saponification of ethyl acetate conductometrically

CO10. Determine the specific rotation of a given optically active compound.

CO11. Determine strength of given acid conductometrically using standard alkali solution.

CO12. Study of saponification of ethyl acetate conductometrically

CO13. Determine the specific rotation of a given optically active compound.

CO14. Determination of molecular weight of a non-volatile solute by Rast method/ Beckmann freezing point method.

CO15. Verify Beer-Lambert law for $KMnO_4$/ K_2Cr2O_7 and determination of concentration of the given solution of the solution.

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DEPARTMENT OF BOTANY, GOVT.COLLEGE, KOTRI

PROGRAMME SPECIFIC OUTCOME

B.SC. BOTANY

Program Specific Outcomes (PSOs) of Botany

Upon completion of this programme the student will be able to

PSO 1. Gain knowledge of botany concepts, state principles and outline processes underlying the field of botany and its related interdisciplinary subjects.

PSO 2. Demonstrate an understanding of plant morphology, anatomy and analyse importance of plants and their conservations .

PSO 3. Integrate knowledge of vital and applied aspects of botany for designing experiments and interpretation of results.

PSO 4. Entrepreneurial and Social competence: Associate the impact of human activity on nature, importance of plant diversity and its conservation for sustainable development.

COURSE OUTCOME

B.Sc.- I (BOTANY) PAPER-I

BACTERIA, VIRUSES, FUNGI, LICHENS AND ALGA

After completion of the course students will be able to :-

1.Understand general characteristics, types of viruses based on structure and genetic material and multiplication of viruses (General account.

2. Gain knowledge of general characteristics and classification (on the basis of morphology), fine structure of bacterial cell, Gram positive and Gram negative bacteria, mode of nutrition and reproduction vegetative, asexual and recombination.

3.Understand general account of habit and habitat, structure (range of thallus organization), cell wall composition, nutrition .

4.Learn classification of fungi. economic importance of fungi,lLife cycles of Saprolegnia, Albugo,, Aspergillus, Peziza, Agaricus, Ustilago, Puccinia, Alternaria and Cercospora

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5. learn about General characters of algae, range of thallus organization, Gaidukov phenomenon, reproduction, life cycle patterns and economic importance.

6.Able to Classify Systematic position, occurrence, structure and life cycle of genera.

7. Understand general account, types, structure, nutrition, reproduction and economic importance of Lichen.

8. Gain knowledge of Mycoplasma: Structure and importance. Blue Green Algae (BGA) in nitrogen economy of soil and reclamation of Ushar land.Mushroom Biotechnology

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B.Sc.-I (BOTANY) PAPER –II

(BRYOPHYTES, PTERIDOPHYTES, GYMNOSPERMS AND PALAEOBOTANY)

1. Learn general characteristics, affinities, range of thallus organization, general classification and economic & ecological importance of bryophyta, Systematic position, occurrence, morphology anatomy and reproductive structure in Riccia, Marchantia, Pellia, Anthoceros, Funaria. Vegetative reproduction in Bryophytes, Evolution of sporophytes.

2. Understand PTERIDOPHYTES, its general characteristics, affinities, economic importance and classification, Heterospory and seed habit, stellar system in Pteridophytes, Aposory and apogamy, Telome theory, Azolla as Biofertilizer.

3. Gain knowledge of systematic position, occurrence. Morphology, anatomy and reproductive structure of Psilotum, Lycopodium, selaginella, Equisetum, Marsilea.

4. Learn general characteristics, affinities, economic importance and classification of Gymnosperm.

5. Understand PALAEOBOTANY: Geological time scale, types of fossils and fossilization, Rhynia, and study of some fossil gymnosperms.

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B.Sc.–II (BOTANY)

Course outcome

PAPER-I (PLANT TAXONOMY, ECONOMIC BOTANY, PLANT ANATOMY AND EMBRYOLOGY)

Upon Successful completion of the course students will be able to :-

1. Understand Bentham and Hooker system of classification, Binomial Nomenclature, International Code of Nomenclature for Algae, Fungi, and plants (IUCN).
2. Learn preservation of Plant material and Herbarium techniques. Important botanical gardens and herbaria of India, Kew Botanical garden, England.
3. Understand systematic position, distinguishing characters and economic importance of the following families, Ranunculaceae, Magnoliaceae, Brassicaceae, Rosaceae, Papaveraceae, Caryophyllaceae, Rutaceae, Cucurbitaceae, Aplaceae, Rublaceae, Apocynaceae, Asclepiadaceae, Solanaceae, Malvaceae, Convolvulaceae, Orchidaceae, Acanthaceae, verbenaceae, Lamiaceae, Asteraceae, Fabaceae, Euphorbiaceae, Poaceae and Liliaceae.
4. Learn botanical name, family, part used and uses of economically important plants, fiber yielding plants; Cotton, jute, sun, hemp, coir.Timber yielding plants: Sal, Teak, Shisham and Pine.Medicinal plants.
5. Understand Plant Anatomy: Root and shoot apical meristems theories of root and shoot apex organization
6. Understand about Embryology: Flower as a reproductive organ, anther, microsporogenesis, types of ovules, megasporogenesis, development of male and female gametophyte, pollination, mechanisms, self incompatibility, fertilization, endosperm, embryo, polyembryonoy, apomixes and parthenocarpy.

B.Sc.-II (BOTANY)

Course outcome

PAPER II (ECOLOGY AND PLANT PHYSIOLOGY)

After completion of course students will be able to :-

1. Learn scope of ecology, environmental and ecological factors, Soil formation and soil profile, Liebig's law of minimum, Shelford's law of tolerance, morphological and anatomical adapataions in hydrophytes, xerophytes and epiphytes.

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2. Gain knowledge of population and community characteristics, Raunkiaer's life forms, population interactions (e.g. Symbiosis, Amensalism etc.), succession, ecotone and edge effect, ecological niches, ecotypes, ecads, keystone species .
3. Understand concept of ecosystem, trophic levels, flow of energy in ecosystem, food chain and food web, concept of ecological pyramids Biogeochemical cycles:carbon cycle, nitrogen cycle and phosphorus cycle
4. Learn plant water relations: Diffusion, permeability, osmosis, imbibitions, plasmolysis, osmotic potential and water potential.
5. Learn the types of soil water, water holding capacity, wilting, Absorption of water, theories of Ascent of sap, Mineral nutrition and absorption, Deficiency symptoms, Transpiration, stomatal movement, significance of transpiration, Factors affecting transpiration, guttation.
6. Gain insight about Photosynthesis and Respiration.
7. Understand and learn about plant growth hormones: Auxin, Gibberellin, Cytokinin, Ethylene and Abscissic acid. Physiology of flowering, Florigen concept, Photoperiodism and Vernalization. Seed dormancy and germination, plant movement.

B.SC.-III (BOTANY)

PAPER –I (ANALYTICAL TECHNOLOGY PLANT PATHOLOGY, EXPERIMENTAL EMBRYOLOGY, ELEMENTARY BIOSTATISTICS, ENVIRONMENTAL POLLUTION AND CONSERVATION)

After completion of course students will be able to :-

1. Understand the Structure, Principle and applications of analytical instrumentation.

2. Gain knowledge of plant tissue culture techniques and analytical techniques.

3. Foster knowledge of general principles of plant pathology, general symptoms of fungal, bacterial and viral diseases, mode of infection, diseases resistance and control measures, plant quarantine.

4.Know and understand pollution, green house gases, Ozone depletion, Dissolve oxygen, B.O.D., C.O.D. Bio magnification, Eutrophication, Acid precipitation, Phytoremediation, Plant indicators.

5. Understand the application of Biostatics, measure of central tendency-Mean, Median, Mode, measures of disperssal-Standard deviation, standard error.

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B.Sc.-III

COURSE OUTCOME

(BOTANY) PAPER –II

(GENETICS, MOLECULAR BIOLOGY, BIOTECHNOLOGY AND BIOCHEMISTRY)

After completion of course students will be able to :-

1. Understand Cell and cell organelles, organization and morphology of chromosomes, giant chromosomes, cell division, Mendel's law, gene interactions and gene concept.
2. Gain knowledge of Nucleic acids, structure and forms of DNA and RNA, DNA/RNA as genetic material.
3. Learn Recombinant DNA, Enzymes in recombinant DNA technology, cloning vectors (Plasmid, Bacteriophages, Cosmids, Phagemids), gene cloning, PCR, Application of Biotechnology; G.M.Plants, Monoclonal antibodies, DNA finger printing.
4. Understand Protein: Chemical composition, primary, secondary and tertiary structure of Proteins.
5. Gain knowledge of enzymes, Nomenclature and classifaction, components of enzyme, theories of enzyme action, enzyme kinetics (Michaelis-Menten constant), allosteric enzymes, isozymes, Abzymes. Ribozymes, factors affecting enzyme activity.

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DEPARTMENT OF ZOOLOGY, GOVT.COLLEGE, KOTRI

PROGRAMME SPECIFIC OUTCOME

B.SC. ZOOLOGY

After successful completion of B.Sc. Zoology programme students will be able to:

PSO 1. Gain knowledge about scientific terms, concepts and facts.

PSO 2. Understand and appreciate life process governing life from a cellular, multi cellular and tissue grade organisation.

PSO 3. Understand animal interactions with the environment and identify the major groups of organisms.

PSO 4. Ability to connect and apply biological knowledge to other disciplines and integrate knowledge into their personal and professional lives.

COURSE OUTCOME

B.SC. I

CELL BIOLOGY

On completion of the course, students are able to:

1. Understand various applications of cells and cell biology.
2. Understand the different characters between plant cell and animal cell.
3. Students will get general idea of organisation at cellular level and their role in governing cellular processes.
4. 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.

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.

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4. Understand the economical importance of Molluscs.

5. Understand the Characters of class Asterias 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.

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 chick development up to 96 hours of incubation and extra embryonic membranes.

4. Explain the theories of preformation, and concepts like growth, differentiation and reproduction.

5. Explain the principles and process of fertilization and cleavage.

Practical Paper:-

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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 grastrulae
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 Mitochondria/ 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

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B.Sc. Part-II

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

Anatomy and Physiology

1. Understand the Integument and its derivatives: structure of scales, hair and feathers . Alimentary canal and digestive glands in vertebrates • Respiratory organs : Gills and lung , air-sac in birds.
2. Study and understand digestion and absorption of dietary components and Physiology of heart, cardiac cycle and ECG , Blood Coagulation , Respiration: mechanism and control of breathing.
3. Understand the Excretion: Physiology of excretion, osmoregulation • Physiology of muscle contraction • Physiology of nerve impulse, Synaptic transmission.

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.

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:

2. Understand the general idea about hormone roles in animal body and types of hormone, synthesis and its functions.

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.

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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

Practical Paper: -

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

1. Identify the organs by studying the histological slides.

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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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Environmental Biology & Toxicology:-

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

1. List the environmental challenges and their remedies.
2. Understand 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. 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.

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.

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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.

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.

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.

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GOVT. COLLEGE, KOTRI DISTT-MUNGELI (C.G.)

Department Of Mathematics

B.Sc. Maths(Graduate)

Programme Specification Outcomes

On Completion Of The Course Student Will Be Able To –

PS01 - Gain The Basic Knowledge Of Maths.

PS02 – Understand,formulate and use quantitative models arising in social science, business and other contexts.

PS03 –Acquire knowledge in advance area of mathematics and statistics.

Course Outcome

B.Sc. I - (Maths)

Algebra & Trigonometry – 1

1. Develop Application Of Linear Equation .
2. To Give Knowledge Of Major Mathematians Of Their Contribution.
3. To Give The Students On Knowledge Of Mappings And Homomorphism.
4. To Understand Permutation Group and trigonometrical functions.

Elementary Calculus

1. Students will gain Knowledge Of Limit Of Function Asymptotes and curvature& tracing of curves.
2. learn Integration Of Transcendental Functions.
3. Knowledge Of Degree And Order Offer Differential Equation, and linear different equations.

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Vector Analysis & Geometry :-

1. Gain knowledge Of Is Scalar And Vector Product.
2. Learn Vector Integration In Theorem Of Gauss And Green Stocks.
3. Understand System Of Conics And Polar Equation Of Conic and plane and plane ,sphere and cone.

B.Sc. II (Maths)

Advanced Calculus :-

1. Understand Sequence And Series.
2. Understand Continuity Of Function And It's Properties.
3. Understand Beta And Gamma Functions And Its Theorem.
4. Unders tand The Euler Theorem On Homogeneous Function

Differential Equation :-

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.

Mechanic :-

1. Understand Equilibrium Of Coplanar Forces Stable And Unstable Equilibrium And Virtual Work.
2. Understand Forces In Three Dimensions Poinsot'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).

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B.Sc. III (Maths)

Analysis :-

1. Learn 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.

Abstract Algebra :-

1. Knowledge Of Group Automorphism A Normalizer.
2. Understand Ring Theory And Homomorphism And Isomorphism Theorem.
3. Learn Vector Space And Their Basic Properties Basis.
4. Understand Inner Product Space And Cauchy Schwarz Inequality.

Discrete Mathematics :-

1. Understand Phrase Structure Grammars And Langauges.
2. Knowledge Of Relation And Function Graph and finite state machine .
3. Understand Recurrence Relation , Homogeneous and Boolean algebra and Boolean function.

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Programme Specific Outcome of Commerce

Session 2022-23

Programme Specific Outcomes (PSOs)

Upon completion of B.Com Degree programme the graduates will be able to

COURSE OUTCOMES

(Commerce)

Name of Course	Paper	Name of Subject	Course Outcome
B.COM I	Group I paper I	Financial Accounting	Students get insight into the basics of accounting concepts and principles and develop skill in accounting for various kinds of business transactions. Students will be able to analyse and interpret financial data to solve a variety of business problems
B.COM I	Group I paper II	Business Economics	To familiarize the students with economic theories, principles and concepts. To demonstrate a basic understanding of the operation of a modern economy. To develop a sound understanding of consumer and producer behaviour of macro economics and demand & supply, price determination and market structure.
B.COM I	Group II paper I	Business Mathematics	To enable students to have minimum knowledge of mathematics as is applicable to business and economic situations. Students will be able to apply percentage, ratio and proportions for business applications. To analyze and solve problems in the areas of business related to simple interest, compound interest and annuity.
B.COM I	Group II paper II	Business Regulatory Framework	To acquire brief idea about the framework of Indian business law. To relate and apply the concepts, terms and provisions related to law of contract Act 1872, Sale of goods Act 1930, Negotiable Instrument Act 1881 and Consumer protection Act 1986. Students will be able to understand the fundamental aspects of partnership Act and IP Act.
B.COM I	Group III paper I	Business Environment	To acquire in-depth knowledge about different internal and external factors that affects business. To gain understanding of the environment in which business operate and analyse different business environment before starting a new business venture.
B.COM I	Group III paper II	Business Communication	To familiarize the students with the concept significance of communication. To have a basic understanding of the corporate communication. To develop skill of writing business letter, deport writing and oral presentation.
B.COM II	Group I paper I	Corporate Accounting	To understand about conceptual aspects of Corporate Accounting in conformity with provisions of companies Act and Accounting as per Indian Accounting Standards. Students will be able to prepare accounts of companies on the event of reconstruction, amalgamation and liquidation. To familiarize students with new trends in Corporate Accounting related to issue and redemption of shares and debentures.
B.COM II	Group I paper II	Company Law	To provide basic knowledge of the provisions of companies Act 2013, along with relevant case law. To expose students towards basic concepts of capital management, company meetings and winding up of

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			companies.
B.COM II	Group II paper I	Cost Accounting	To understand basic concepts of costing, methods of costing and technique of costing for its application in real life. Emerging cost concepts in cost reduction, planning and management at the initial stage of production.
B.COM II	Group II paper II	Principles of Business Management	To demonstrate the roles, skills and functions of management. To familiarize the students with the basics principles of business management.
B.COM II	Group III paper I	Business Statistics	To enable the students to gain understanding of statistical tools and techniques as are applicable to business. To choose a statistical method for solving practical problems.
B.COM II	Group III paper II	Fundamentals of Entrepreneurship	To expose the students to the entrepreneurial culture and industrial growth so as to prepare them to set up and manage their own small units. To enrich the students towards the knowledge of entrepreneurial skills and to make the students understand the approaches to attain the goals of the business. To explain the role and significance of entrepreneurship as a career in the firm and in society.
B.COM III	Group I paper I	Income Tax	To enable the students to know the basics of Income Tax Act and its implications. To acquire knowledge about computation of tax liability and tax management.
B.COM III	Group I paper II	Auditing	This course aims at imparting knowledge about the principles and methods of auditing and their applications. To enlighten the students about the recent trends in auditing. The students will understand the audit process from the planning stage till the completion of audit.
B.COM III	Group II paper I	Indirect Taxes with GST	To develop the understanding about GST and to apply the provisions of GST law to various situations. Students will be able to analyze and evaluate the effect of indirect tax on consumers, producers and the government.
B.COM III	Group II paper II	Management Accounting	To develop the understanding of the application of accounting techniques for management decision making. To instill knowledge about Budgeting for profit planning and control. To make the students aware of the basic concept of fund flow statement, cash flow statement, standard costing and absorption & marginal costing.
B.COM III	Option group B (marketing area) paper I	Principles of Marketing	To develop understanding of the framework of marketing and its applications in decision making. Students will be able to identify the organizational processes involved in the planning, implementation and control of marketing activities.
B.COM III	Option group B (marketing area) paper II	International Marketing	This course aims at acquainting the students with the operations of marketing in international environment. To provide basic knowledge about identifying and selecting foreign market, promotion of product/services and export policy & practices in India.

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