



G.B.M College Gaya

A constituent unit of Magadh University , Bodh Gaya

GAUTAM BUDDHA MAHILA COLLEGE

GAYA

NAAC Accredited B Grade (2nd Cycle)

(A Constituent Unit of Magadh University, BodhGaya)

INTERNAL QUALITY ASSSSURANCE CELL

LEARNING OUTCOMES OF ALL THE UNDER-GRADUATE COURSES

FACULTY OF ARTS

DEPARTMENT OF PSYCHOLOGY

Programme Outcomes

- Students will be able to use their knowledge of human behaviour in their daily lives.
- It develops research and analytical skills.
- Learning of various social skills and will able to deal people more effectively.
- Learners develop critical thinking ability and better dealing capacity with stress and conflicts.
- Enhances behavioural training skills, develops leadership quality and overall personality development.
- Provides insight into people's behaviour and better understanding of underlying emotions.
- Better insight to how to maximize our mental health.
- Learn to manage inter-personal relationships in a better way.

Programme Specific Outcomes

- To become a psychologist and also provides a base for a number of other related career options.
- Understanding of Psychological lab equipment and learning of using various psychological tools and tests.
- Basic knowledge of types, causes and treatment of various psychological disorders.
- Learning about various psychotherapeutic techniques.
- Basic knowledge of guidance and counselling.
- Training to consider the problems from different perspectives.
- Ability development to help himself/herself as well as others.
- Understand the importance of motivation as well as motivate others.
- An opportunity to give back to the community.



Psychology Programme of Study

| Class | Number of paper | Title of paper |
|--|---|--|
| BA Part I Honours | Paper I | General Psychology |
| | Paper II | Abnormal Psychology |
| BA Part II Honours | Paper III | Educational Psychology |
| | Paper IV | History of Psychology |
| BA Part III Honours | Paper V | Social Psychology |
| | Paper VI | Research Methodology |
| | | Group(A) Psychological Research Group(B) Statistics |
| | Paper VII | Industrial and Clinical Psychology |
| Group(A) Industrial Psychology Group(B) Clinical Psychology | | |
| Paper VIII | Practical: Experiment ,Testing and Statistics | |

Course Outcomes

- Understand the foundational concepts of human behaviour and cognitive processes.
- To equip the students with problem solving skills, to manage life circumstances, to reach personal goals and to achieve success.
- Learning of versatile skills includes how to learn, think, communicate and deal effectively to different life situations.
- To study further in the various applied fields of Psychology such as Clinical Psychology, Industrial Psychology, Criminal Psychology, etc.
- Open the way for diverse career opportunities in fields like, Human services, Administration, Educational Institutions, Research, Human resources, Business and Industry, etc.as psychological professionals.
- Psychology is a subject of self-education through which students can learn to understand and enhance their overall wellbeing along with academic achievements.



DEPARTMENT OF ECONOMICS

Programme Outcome

- Develops the ability to explain core economic terms, concepts and theories.
- Students learn about the stress and strain involved in the process of economic development and comprehend the economic way of thinking.
- It fosters the development of skills in economic reasoning and understanding.
- Economics deals with the equitable allocation of resources to meet the ends.
- Students will understand the concept of the theories, challenges, and policies of development economics.
- It provides the basic knowledge on growth and models of development.

Programme Specific Outcome

- Prepares students for career as professionals or researchers in the field of Economics and go for higher education.
- Equip learners for competitive examinations in the Banking and Administrative sectors.
- Demonstrate the ability to collect, process, and interpret data, including statistical inference.
- Apply economic theories and concepts to contemporary social issues, as well as formulation and analysis of policy.
- Recognize the role of ethical values in economic decisions.

Course Outcomes

- It will introduce the basic, fundamental aspects of all branches of Economics to learners.
- It will enable students to understand the knowledge and application of Microeconomics and Macroeconomics concepts for the formulation of policies and planning.
- Develop awareness about the system, functioning and reforms of Indian Financial System
- Students are able to develop ideas of basic features of Indian Economy and various economic problem in respect of structural change, income inequality, poverty, unemployment, population, and infrastructure.
- It will give an insight to understand globalization and its impact on Indian economy.
- The knowledge of statistics will enable learners to collect appropriate data needed, and draw inference.
- Students will know about statistical tools required for determining several economic variables.



Economics Programme of Study

| Class | Number of Paper | Title of Paper |
|--------------------|-----------------|--|
| BA Part I Honors | Paper I | Micro Economics |
| | Paper II | Macro Economics |
| BA Part II Honors | Paper III | Economic Problems of India Since Independence |
| | Paper IV | Public Economics |
| BA Part III Honors | Paper V | Principles of Economic Growth and Planning |
| | Paper VI | Economic Development of UK, U.S.A, U.S.S.R and Japan |
| | Paper VII | Statistics |
| | Paper VIII | Labour Economics Agricultural Economics Business Organization and industrial Economics Mathematical Economics and Statistics. |

DEPARTMENT OF POLITICAL SCIENCE

Programme Outcome

- Political Science as a discipline familiarizes the students with the interdisciplinary approach in social sciences.
- It enables them to comprehend the basic theories, structure and processes of government systems
- Inculcates the knowledge of political ideas, social and political philosophy and human values among the students.
- Students learn about the concepts of liberty, equality, fraternity, freedom etc.



- It fosters political consciousness among learners which enables them to be aware of their constitutional Rights and Duties.

Political Science Programme of Study:

| Class | Number of paper | Title of paper |
|---------------------|-----------------|---|
| BA Part I Honours | Paper I | Political Theory |
| | Paper II | Comparative Government and Politics |
| BA Part II Honours | Paper III | Indian Political System |
| | Paper IV | International Politics |
| BA Part III Honours | Paper V | Public Administration |
| | Paper VI | Political Thought |
| | Paper VII | Political Sociology |
| | Paper VIII | Indian National Movement and Constitutional Development |

Programme Specific Outcomes

- To equip students with the critical skills and knowledge required to understand the political changes that take place at the global, national and regional level.
- To understand and follow changes in patterns of political behaviour, ideas and structures.
- Develop the ability to make logical inferences about social and political issues.
- Prepares students for academic study and careers in public and private sector.
- Students will develop knowledge about the problems and challenges of the Indian Political System .

Course Outcomes

- It requires students to study Political Theory, Comparative Government & Politics-(UK, USA, Russia, France, and Switzerland) Public Administration, Political Sociology and International Politics.



- It has a significant thrust on the Indian National Movement & Constitutional Development and Indian Political System.
- Enriches the knowledge of students about the Indian Political Thought and Western Political Thought from ancient to the medieval as well as modern period
- An understanding of how political institutions emerge and how they interact with their external environment.
- It enhances the learner's ability to apply them on contemporary political developments and behaviour thus enabling them to formulate a general idea on political issues as a responsible citizen of the country.

DEPARTMENT OF HISTORY

Programme Outcome

- Being a subject of social science, history has its own value in society and human life.
- Students learn about basic narratives of historical events in a specific region of the world
- It helps the students to develop ethical and social values.
- They gather knowledge and understanding of historical events. Learners will acquire the knowledge of understanding Heritage and Culture

Programme Specific Outcome

- Develops learner's interest to collect ancient art, old coins and other historical material.
- Visit to archaeological sites, museums, and archives
- Enables students to read historical documents, maps, charts etc.
- Enables the learner for higher studies in History, Archaeology and Cultural Studies.
- Students can also opt for careers in Administration and Mass Communication as well.

Course Outcomes

- It will give an insight to students about the Ancient, Medieval and Modern History of India.
- The course in essence tries to teach students to link the past with the present.
- It will give Students insight in the history of Europe, Far East and International Relations.



- It will make students understand past events as a continuous, systematic narrative of the past events as relating to a particular people, country, period, persons, etc. written as a chronological account and relating to the present.

History Programmes of Study

| Class | Number of Paper | Title of Paper |
|------------------|--|---|
| BA Part I Honors | Paper I Paper II Group-1 Group-2 | History of India from the earliest time of 1206 History of great Britain (1603-1839) |
| BA Part I Honors | Paper III Paper IV | History of India (1206-1764) History of Europe (1789-1945) |
| BA Part I Honors | Paper V Paper VI Paper VII Paper VIII | History of India (1757-1857) History of India (1836-1947) History of China and Japan 19th century to mid 20th century History of America |



Department of Philosophy

Programme Outcome

- To provide knowledge to students about the foundational issues related to the world around us, whether it be in our life, or regarding mind and matter, or existence, or belief, or religion or science.
- Enables students in developing logical skill and critical insight.
- Strengthens the power to analyse among learners.
- Focuses on spiritual well-being and not just on physical well- being of students
- Makes emphasis on human values .
- Makes students aware of Indian culture and tradition.

Philosophy Programme of Study:

| Class | Number of paper | Title of paper |
|---------------------|-----------------|--|
| BA Part I Honours | Paper I | Indian Philosophy |
| | Paper II | Metaphysics |
| BA Part II Honours | Paper III | Ethics |
| | Paper IV | History of Western Philosophy |
| BA Part III Honours | Paper V | Philosophy of Religion |
| | Paper VI | Social and Political Philosophy |
| | Paper VII | Logic and Analysis |
| | Paper VIII | Group A: Concept of Indian Philosophy Group B: Modern Indian Philosophy |



Specific Outcome

- Students can pursue research and higher studies in Philosophy and for teaching.
- Prepare for various competitive exams .
- The course prepares the students to pursue and qualify for a career in art, culture and media studies.
- Students acquire knowledge of the philosophy of Yog.
- Helps in understanding the significance of philosophy in daily life.

Course Outcome

- The course develops introspective thinking and analytical abilities of the students.
- It will provide a comprehensive knowledge of Indian and Western Philosophy to students.
- Students will be able to understand Philosophy of Religion-Theory, Origin and Development Ethics, Metaphysics and Logic.
- Social and Political Philosophy enables learners for handling socio-political issues that affect them on the individual/collective basis.
- Makes an individual to become a responsible member of society and helps in developing the society in its totality

DEPARTMENT OF MUSIC

Programme Outcome

- The learner is able to acquire competency in fundamental musical knowledge and skill.
- The ability to effectively communicate in writing on topics in the field of music history through the use of evidence and supporting details.
- Skills in preparation for and performance of musical work that exhibit effective artistic expression.
- Competency in the application of knowledge of music theory through analysis and arranging
- The ability to effectively use information for practical musical composition according to the Notation system

Programme Specific Outcome

- Helps students to learn the skills and make a valuable contribution to society through quality music making and teaching.



- Learners can offer a diversity of musical performances to the community and working collaboratively when opportunities exist.
- Students will be able to create, analyse and synthesize music as a means of supporting developing careers in music teaching and / or performance.
- Integrate varied educational opportunities to create distinctive musical experiences oriented to the student's specific needs and interests.
- Prepares students for a wide range of career options in music.

Music Programme of study

| Class | Number of Paper | Title of Paper |
|--------------------------|-----------------|--|
| B.A Part I (Hons.) | Paper I | General Historical Knowledge of 2nd century A.D 14th century A.D. of Hindustani Classical Music |
| | Paper II | Practical - Vilambit Khayal and Drut Khayal with Tarana different Ragas |
| B.A. Part II (Hons.) | Paper III | Comprative study of Sumprakrite Ragas. Knowledge of Talas |
| | Paper IV | Vilambit Khyal with Alap and Boltans. Practical |
| B.A. Part III (Hons.) | Paper V | Granth and Granthkar. Gharana |
| | Paper VI | Writing of Talas in different Laykaries |
| | Paper VII | Practical - Vilambit Khayal with different Laykaries , Tans, Boltans |
| | Paper VIII | Drupad, Dhamar. Thumri |



Course Outcome

- It will enable students understand the basic terminologies of Indian music.
- Indian Classical Music is the base of all kinds of Indian Music the learner will thorough knowledge of Swaras and its applications from this course.
- Students will understand the theoretical aspects and demonstrate various aspects of ragas and their differentiation. of the prescribed ragas
- The student is able to give a practical demonstration of ragas for a period of at least half an hour
- Enhances competence in oral, written, and communication skills and the ability to disseminate knowledge in a scholarly, coherent, and organized manner.
- Studies about the compositional forms and notation systems of Hindustani music studies about the Gharanas of Hindustani music.
- Music is a discipline which is known as ‘Gurumukhi Vidya’ as it evolves a strong teacher-student relationship.

DEPARTMENT OF HOME SCIENCE

Programme Outcomes

- Home Science education deals with all aspects of home and family management.
- It is both an art and science. It’s an art because it helps to manage resources in a skilful manner, and it is a science because it helps to improve your family life by offering knowledge in this field. To give you a simple example, when you present a dish in an aesthetic manner it becomes an art. When you ensure that the meal offers a balanced nutritive diet, it becomes a science.
- Home Science education empowers learners with the skills to improve every facet of their home life – Food, Diet, Clothing, Health, Childcare, Personal Finance, Home Beautification etc.
- It inculcates values that help students to become responsible for your family and society.
- Students acquire professional and entrepreneurial skills for economic empowerment.

Programme Specific Outcome

- It opens up career choices as dietician, apparel designer, family counsellor, and social worker.
- The hotel industry also demand for the skills of a Home Science graduates in the areas of housekeeping and food catering.



- This program is beneficial to people (especially girls) who wish to take up the profession of teaching or to pursue further research work in future.
- The importance of home science has further increased to meet the demands of the modern society.

Home Science Programme of study

| CLASS | NUMBER OF PAPERS | TITLE OF PAPERS |
|---------------------|------------------|--------------------------------------|
| BA Part I Honours | Papers I | Food and Nutrition |
| | Paper II | Mother craft and Child Development |
| BA Part II Honours | Paper III | Dietetics and Therapeutics Nutrition |
| | Paper IV | Clothing and Textiles |
| BA Part III Honours | Paper V | Textile and Clothing |
| | Paper VI | Child Psychology |
| | Paper VII | Extension Education |
| | Paper VIII | Family Relationship |

COURSE OUTCOMES

- Provides students Food and Nutrition, Human Development, Family Resource Management, Extension Education and Clothing and Textiles.
- It offers knowledge in the field food, nutrition, health and hygiene.



- Learners are able to understand management and economics of maintaining home and community.
- The scope of this subject is quite vast and varied and surpasses beyond the area of cooking, home decoration and needlework.
- With a rise in the standard of living also equipping students with the skills needed to manage their home in a dynamic environment

DEPARTMENT OF ENGLISH

Programme Outcome

- Developing and integrating the use of four language skills i.e. listening, speaking, reading and writing.
- It will motivate the students to inculcate creativity, cultivate imagination & analytical skills.
- As literature reflects the life and human values it develops value system among students
- Student will gain knowledge of the literary works in English, and appreciate the diversity of literary traditions.
- Enables the learner's ability to develop self-expression and write effectively.
- Facilitates the students to understand the advanced skills used in spoken communication and to understand the importance of overall development of personality.

Programme Specific Outcomes

- Knowledge of English language in oral & written form & a sound knowledge of grammar
- To develop analytical skills in linguistics, communications and literary criticism
- Knowledge of historical & cultural background of the prescribed text
- Familiarity and appreciation of the importance of major literary genres, subgenres and period of history.
- Provides opportunities in teaching in schools, Colleges and Universities.
- Learners can also seek their jobs in the field of Journalism, Publishing, Advertising and Marketing fields.
- Enables the students to opt for careers in Public Relations, Communication Fields, and Banking Services and to prepare for various competitive examinations.

Course Outcome

- Reading skills- basics of phonology & pronunciation
- Using English language effectively for written and oral communication techniques.
- The ability to comprehend works of rhetorical and literary criticism
- Develop a sense of genre, culture, history, critical approach and research skills
- Equip students with knowledge of English as a world language



English Language and Literature Programme of Study

| Class | Number of Papers | Title of Paper |
|--------------|-------------------|--|
| B.A Part I | Paper I | 1. History of English Literature from Elizabethan Age to Victorian Age. 2. History of English Language. |
| | Paper II | 1. Poetry- Poetical works of Poets from Chaucer to Victorian Poets. |
| B.A Part II | Paper III | 1. Drama- from Elizabethan Dramatists to Victorian Dramatists. 2. Rhetoric |
| | Paper IV | 1. Novel- from the Ecclesiastes (Bible) to Victorian Novelists. |
| B.A Part III | Paper V | 1. Criticism- Study of Critics and their works from Aristotle to 20 th Century Critics 2. Critical appreciation of Poetry and Prose. |
| | Paper VI | 1. 20 TH Century poetry, drama and novel. |
| | Paper VII | 1. Indian Writing in English of the 20 th poetry, prose and novel. |
| | Paper VIII | 1. Literary Essays 2. General Essays |



DEPARTMENT OF HINDI

Programme Outcomes

- विद्यार्थियों से यह अपेक्षा की जाती है कि वे अपने भविष्य का निर्माण, अपने लक्ष्य की प्राप्ति तथा देश, समाज व समुदाय का विकास में अपनी सहभागिता दर्ज कर सकें।
- उच्च शिक्षा के साथ-साथ राष्ट्रभाषा, राजभाषा एवं उसके गौरव के साथ जुड़ पाता है।
- भारतीय साहित्य से परिचित हो पाता है।
- अपने देश की संस्कृति , कला, ज्ञान, विज्ञान, लोक, रीति-रिवाज़, पर्व-त्यौहार आदि से परिचित हो पाता है.
- सरकारी एवं गैर-सरकारी संस्थानों में पदाधिकारी, कर्मचारी, लेखन, पत्रकार, सम्पादक, निर्देशक आदि बन कर सेवा करने का अवसर पा सकता है.
- संवेदनशील एवं कर्तव्यनिष्ठ नागरिक बनने में अहम भूमिका निभाता है.

Programme Specific Outcome

- हिन्दी भाषा एवं साहित्य से सम्बंधित आधारभूत जानकारी से परिचित हो पाता है
- हिन्दी की महत्ता एवं प्रयोजनीयता से वाकिफ होना.
- हिन्दी भाषा एवं साहित्य की परंपरा को गहराई से जान पाता है.
- हिन्दी की लेखन विधि से परिचित हो पाता है.
- हिन्दी के छात्र/छात्रा स्नातक के उपरांत कवि, लेखक, नाटक-रंगमंच, सिनेमा, टीवी सीरियल आदि में अपना योगदान दे सकता है।

Course Outcomes

- हिन्दी साहित्य के विकास में तत्कालीन समाज एवं व्यवस्था के बरक्स कवियों, लेखकों, चिंतकों, आलोचकों, कहानीकारों एवं उपन्यासकारों की रचनाओं तथा उनके अवदान से परिचित एवं प्रभावित होता है।
- विद्यार्थी इस तथ्य से अवगत होते हैं कि साहित्य और समाज एक दूसरे को प्रभावित करते हैं जिससे एक बेहतर समाज का निर्माण हिन्दी की कहानियों, निबंधों तथा उपन्यास के इतिहास को विस्तार से जान पाता है।
- हिन्दी, पत्रकारिता और अनुवाद की विशिष्टता को समझ पाने में सक्षम हो पाता है.

प्रयोजनमूलक भाषा विज्ञान, हिन्दी आलोचना, काव्य अलंकार, रस, ध्वनि आदि हिन्दी भाषा विज्ञान एवं तकनीकी शब्दावली से परिचित होता है।



Hindi Language and Literature Programme of Study

| Class | Number of paper | Title of paper |
|---------------------|-----------------|---|
| BA Part I Honours | Paper I | Madhyakalin Kavy. |
| | Paper II | Gadhya Vidhayen (Katha Sahitya, Natak & Nibandh. |
| BA Part II Honours | Paper III | Adhunik Kavy. |
| | Paper IV | Hindi Sahitya Ka Itihas. |
| BA Part III Honours | Paper V | Bhasha Vigyan |
| | Paper VI | Bhartiya Kavyshastra aur Bhartiya aur Pashchatya Sahitya Siddhant |
| | Paper VII | Prayojanmulak Hindi |
| | Paper VIII | Vishesh Adhyayan (Sagun Bhakti kavy) |

DEPARTMENT OF URDU

Programme Outcomes

- It will enhance the Urdu language skills of learners and develop the ability to read texts in order to gain a richer understanding of the subject.
- Students will be able to comprehend the literary and cultural background of Urdu Language and Literature
- They will develop an ability to read texts in relation to their historical and cultural contexts, in order to gain a richer understanding.
- The Students will gain knowledge of the major literary genres of Urdu literature
- The students will be able to differentiate between literary language and ordinary language.



Programme Specific Outcomes

- Proficiency in the language can enable learners to take up creative and professional writing
- Translators are also required in many Government Offices
- Careers in teaching can be pursued.
- Students can appear for various competitive exams.
- By having command over language and learning good communication skills one can become a good speaker and present oneself in a better way.

Urdu Language and Literature Programme of study

| Class | Number of paper | Title of paper |
|---------------------|-----------------|---------------------------|
| BA Part I Honours | Paper I | Urdu Adab Bagh-o-Bahar |
| | Paper II | Urdu Nazam |
| BA Part II Honours | Paper III | Urdu Adab |
| | Paper IV | Urdu Nazm |
| BA Part III Honours | Paper V | Urdu Tanqeed |
| | Paper VI | Urdu Adab ki Tareekh |
| | Paper VII | Linguistics |
| | Paper VIII | Urdu-Rhetoric & Prosody |

Course Outcome

- Students will be able to read and appreciate various forms of literature.
- They will be able to discuss and critically analyze different aspects of literature
- The students will be well acquainted with the grammatical properties of Urdu language
- Student will learn about the importance of sequencing in story-telling and Drama Plots.



G.B.M College Gaya

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- The students will be understand the importance of the literary language used in print as well as in social and electronic media.
- Student will be use the language skills in their day to day life.

DEPARTMENT OF SANSKRIT

Programme Outcomes

- संस्कृत भाषा एवं साहित्य से संबंधित आधारभूत जानकारी से परिचित हो पाते हैं।
- संस्कृत संभाषण मौखिक एवं लेखन क्षमता भी विकसित हो।
- अधिकांश भारतीय एवं भारतीय परिवार के भाषाओं की जननी होने के कारण संस्कृत के अध्ययन से दूसरी भाषाओं का ज्ञान भी समृद्ध होगा।
- संस्कृत भाषा भारतीय संस्कृति की महत्वपूर्ण संवाहक है जिसमें वसुधैव कुटुंबकम की भावना अंतर्निहित है।
- संवेदनशील एवं कर्तव्यनिष्ठ नागरिक के रूप में देश की प्रगति में अहम भूमिका निभा सकते हैं।

Programme Specific Outcomes

- संस्कृत की महत्ता एवं उसकी सामयिकता से परिचित होना।
- प्राचीन भारत का समस्त ज्ञान-विज्ञान संस्कृत में ही सुरक्षित है इसलिए इसके अध्ययन से विद्यार्थी अपने महान सांस्कृतिक वैभव मूल रूप में समझेंगे।
- संस्कृत भाषा एवं साहित्य की परंपरा को गहराई से जान पाते हैं।
- संस्कृत के अध्ययन के उपरांत विद्यार्थी यह भी जान सकेंगे कि दुनिया की प्राचीनतम भाषा होने के साथ ही कैसे यह सबसे वैज्ञानिक भाषा है ।
- जो अपने सटीक और अपरिवर्तनीय व्याकरण सिद्धांतों के कारण बोलने वाले आधुनिकतम कंप्यूटरों के लिए सर्वाधिक उपयुक्त भाषा मानी गई।

Course Outcomes

- प्राचीन भारतीय संस्कृति के आधारभूत ग्रंथों रामायण महाभारत पुराण और विभिन्न महाकाव्यों आदि के इतिहास को विस्तार से जान पाता है।
- संस्कृत गद्य काव्य की महान परंपरा से परिचित हो जाता है।
- संस्कृत व्याकरण की आधारभूत संरचना का परिज्ञान कर लेता है।



- विश्व साहित्य के उपलब्ध आदिम ग्रंथ ऋग्वेद एवं उसके कुछ महत्वपूर्ण सुक्तों का सार्थक परिज्ञान कर लेते हैं।
- संस्कृत निबंध लेखन कला से परिचित हो जाता है संस्कृत से हिंदी और हिंदी से संस्कृत में अनुवाद करने लगता है।

Sanskrit Language and Literature Programme of Study

| Class | Number of paper | Title of paper |
|---------------------|-----------------|--|
| BA Part I Honours | Paper I | (A) Sanskrit Sahitya ka Itihas(Laukik) (B) Karak Prakaran (Madhya Siddhant Kaumudi) |
| | Paper II | Padya Kavya |
| BA Part II Honours | Paper III | Gadya Kavya |
| | Paper IV | Rupak aur Urupak |
| BA Part III Honours | Paper V | Vedic Vangmay |
| | Paper VI | Vyakaran aur Bhashavigyan |
| | Paper VII | Kavyashastra aur Chhanda |
| | Paper VIII | Darshan , Nibandha evam Rachananuvada. |

FACULTY OF SCIENCE

DEPARTMENT OF CHEMISTRY

Programme Outcomes

- Students learn about the world around them, from the food they eat, to clothes they wear and the air they breathe.
- It is referred to as the 'Central Science' because it connects other sciences with each-other, such as physics, biology, geology, and environmental science.



- The subject matter of chemistry will broaden the knowledge base of students.
- The students understand the interdisciplinary nature of chemistry and integrate knowledge of other disciplines to a wide variety of chemical problems.
- It enables learners to understand the fundamental theories, the concepts and applications of knowledge of the principles of chemistry.
- Students learn about the important laboratory techniques, methods, and instrumentation.
- To impart knowledge about the basics in inorganic, organic, physical & general chemistry.

Chemistry Programme of Study

| Class | Number of Paper | Title of Paper |
|--------------------------|-----------------|---------------------|
| B.Sc Part I Honours | Paper I A | Physical Chemistry |
| | Paper I B | Inorganic Chemistry |
| | Paper I C | Organic Chemistry |
| | Paper II | Practical |
| B.Sc Part II Honours | Paper III A | Physical Chemistry |
| | Paper III B | Inorganic Chemistry |
| | Paper III C | Organic Chemistry |
| | Paper IV | Practical |
| B.Sc Part III Honours | Paper V | Physical Chemistry |
| | Paper VI | Inorganic Chemistry |
| | Paper VII | Organic Chemistry |
| | Paper VIII | Practical |



Programme Specific Outcomes

- Inculcates ability to conduct experiments, analyze data, and interpret results.
- Ability to transmit complex technical information in a clear and concise manner.
- Opportunities in teaching, higher studies, research and development as well as the job market.
- Develops appreciation of the varied use of inorganic compounds as catalysts, for medicinal purposes, in fuels and more..
- It equips students with good knowledge to produce goods and services to meet human needs for food, clothing, health care and more.
- Familiarity with chemical hygiene, regulations and practices.

Course Outcomes

- Insights in new developments in chemistry in the fields of ion exchange, high polymers, chromatography, spectroscopy are deeply embedded in the fundamentals of physical chemistry.
- The students understand the importance of the periodic table of the elements, how it comes to be, and its role in organizing chemical information.
- The students develop the ability to communicate scientific information and research results in written and oral formats .
- The students are capable of understanding scientific reasoning and analytical problem solving with molecular perspective
- Develops a better understanding of chemical reactions and about synthesis of compounds.
- Overall they develop laboratory skills, critical thinking and reasoning to address different aspects of chemistry

DEPARTMENT OF ZOOLOGY

Programme Outcomes

- Learners will know and understand beautiful world of animals and their interactions with surroundings.
- They will be able to correlate their existence with the other forms of the life on the earth.
- They can also distinguished between the different animals and appreciate the biodiversity.
- They will acquire the knowledge about environmental concerns and will contribute to conservation, management and sustainability.



- Learners will gain and implement the lessons of coexistence with nature.
- To impart scientific knowledge to the learners about how life originated on planet earth.

Programme Specific Outcomes

- It will provide learners to pursuing higher studies and research.
- Students can opt for careers in teaching.
- To acquaint students with the latest streams of life sciences including biotechnology and genetics.
- Learners will gain the knowledge of different levels and forms of biodiversity
Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life.

Zoology Programme of Study

| Class | Number of Paper | | Title |
|------------------------|--------------------|-----------|--|
| B.Sc. Part I Honours | Paper I A | Theory | Non- Chordates |
| | Paper II A | Theory | Ecology, Animal Behaviour and Biometry |
| | Paper I B & II B | Practical | |
| B.Sc. Part II Honours | Paper III | Theory | Chordates |
| | Paper IV | Theory | Comparative Vertebrate Anatomy, Embryology |
| | Paper III B & IV B | Practical | |
| B.Sc. Part III Honours | Paper V | Theory | Biochemistry, Physiology and Endocrinology |
| | Paper VI | Theory | Cell Biology, Genetics and Economic Zoology |
| | Paper VII | Theory | Evolution, Zoogeography and Paleozoology |
| | Paper VIII A | Practical | Biochemistry, Physiology and Endocrinology |
| | Paper VIII B | Practical | Cell Biology, Genetics, Paleozoology and Evolution |



Course Outcome

- Learners will gain insights into the concept of origin of life.
- Learners will also analyze different theories of evolution and understand about the significance of evolutionary history on earth.
- Students will learn about the physiology, Anatomy, structures of cells, regulation, evolution, hierarchy and fundamental of all life forms.
- They will also explore the process of formation of different life forms on cellular basis.
- To develop skill in practical work, experiments, equipments and laboratory use along with collection and interpretation of animal materials.

DEPARTMENT OF BOTANY

Programme Outcome

- Students understand the range of plant diversity in terms of structure, function and environmental relationship.
- To develop plant identification skills.
- Botanical education is an integral component of ecology
- Learners comprehend the rapid loss of plant life and its implication for mankind.
- To understand and study process of photosynthesis in plants and aware the basics of plant physiology.
- To create awareness about natural resources and environment and the importance of conserving the same

Programme Specific Outcome

- Educate students in and around Bihar about plant science.
- Able to explain the ecological interconnectedness of life on earth by tracing energy and nutrient flow through the environment
- Encourage students for higher studies in botany and facilitate to take up successful career in botany
- To study medicinal importance and chemical compositions some medicinal plants.

Course Outcome



- They will be able to give specific examples of the physiological adaptation, development, reproduction and mode of life cycle followed by different forms of plants
- Students will be able to demonstrate proficiency in the experimental techniques and method of analysis.
- Students will learn about plant propagation methods in plant breeding.
- Understand the diversity among lower and higher plants.
- Students will be able to explain how plant function. . .
- Understand the life cycle pattern of most evolved group of plants.

Botany Programme of Study

| Class | Number of Paper | Title of Paper |
|------------------------|--|--|
| B.Sc. Part I Honours | Paper I | Cryptogams |
| | Paper II | Microbiology and Plant Pathology |
| | Practical Paper of Paper I and Paper II | Cryptogams, Microbiology and Plant Pathology |
| B.Sc. Part II Honours | Paper III | Gymnosperm and Angiosperm Taxonomy |
| | Paper IV | Angiosperm Anatomy, Embryology and Applied Botany |
| | Practical Paper of Paper III and Paper IV | Phanerogams and Applied Botany |
| B.Sc. Part III Honours | Paper V | Plant Physiology and Biochemistry |
| | Paper VI | Cytogenetics, Molecular Biology and Plant Breeding |
| | Paper VII | Environmental Biology |
| | Practical Paper of Paper V, Paper VI and Paper VII | Physiology, Biochemistry, Environmental Biology and Cytogenetics |



VOCATIONAL COURSES

BACHELOR OF COMPUTER APPLICATION

Programme Outcome

- It enhances learners computer literacy, develops skills and the basic understanding of operative systems and a working knowledge of software commonly used in academic and professional environment.
- Students will learn about the concepts and techniques used in the design and development in software systems.
- An understanding of professional, ethical, legal, security and social issues and responsibilities
- It improves communication and business management skills, especially in providing technical support.
An ability to analyze the local and global impact of computing on individuals, organizations and society.

Programme Specific Outcome

- It develops programming skills, networking skills, learn applications, packages, programming languages and modern techniques of IT.
- It focuses on preparing student for roles pertaining to computer application and IT industry.
- Students can get skills and information not only about computer and Information Technology but also in common, organization and management.
- It gives an overview of the topic in IT like networking, computer graphics, web development, trouble shooting and hardware and software skills.
- A few of them being like software programmer, system and network administrator, web designer faculty for computer science and computer applications.

Course Outcomes



- An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
- An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs
- Students can learn programming languages such as C, C++, Java, HTML, SQL etc. It organizes information efficiently in the form of outlines, charts etc. by using appropriate software.
- Students can do academic and Professional Presentations – Designing and delivering an effective presentations and developing the various IT skills to the electronic database
- An ability to communicate effectively with a wide range of audiences.

Computer Application Programme of Study

| Class | Number of Papers | Title of Paper |
|----------------------|------------------|--|
| BCA Part I Honours | Paper I | Computer Fundamentals & Introduction to Computer Architecture |
| | Paper II | Operating System & Business Applications |
| BCA Part II Honours | Paper III | Computer Networking & Structured Programming |
| | Paper IV | Data Structure & Computer Aided Drafting |
| BCA Part III Honours | Paper V | Programming in Visual Basic and Database Management System |
| | Paper VI | Object Oriented Programming (C++ & Java) & Advance Topics in Computers |
| | Paper VII | Practical on Development of Business Application in |



| | | |
|--|------------|----------------------------------|
| | | RDBMS. Programming in C++ & JAVA |
| | Paper VIII | Project Report & Viva- Voce |

BACHELOR OF BUSINESS MANAGEMENT

Programme Outcomes

- To provide students a basic knowledge of business concepts, procedures and methodologies of operations in an organization
- To learn basic concepts and principles of management.
- To develop an understanding of the working of business organization through the process of management.
- Students acquire core conceptual knowledge of business management, Information Technology and Communication skill.
- Students acquire soft skills/communication skills related to business aspects.

Programme Specific Outcome

- The course will provide sufficient knowledge to train effective management professionals.
- It will equip the students with the ability to understand, analyze and apply management concepts in areas relating to marketing, human resource, and finance for efficient running of business organizations.
- Is able to ensure organization's activities through sustainable development, quality and business ethics principles.
- The course prepares students for higher studies in Management.
- Understand the methods the sampling techniques of collecting primary and secondary data.

Internship will orient students with skills in marketing research and management, sales research and promotion, retailing and consumer behaviour, etc. thereby inculcating entrepreneurship skills.

Course Outcome

- The course will provide the students with a knowledge of the basics of business and business environment.



- It will enable them to understand the principles and functions of management, process of decision making, modern trends in the management process, group dynamics, leadership traits, etc.
- Study of organizational behaviour inculcates in students knowledge on personality, perception, motivation, etc
- Learners will acquire knowledge about business structural planning principles, project activity methods in business management.
- Students will learn to analyze the various factors that influence business environment which substantiate business management and development decisions

Bachelor of Business Management (BBM) Programme of Study

| Class | Number of Paper | Title of Paper |
|------------------|------------------------|---|
| ssBBM First Year | Paper I | |
| | Group-1 | Principles and Practices of Management |
| | Group-2 | Quantitative Method |
| | Paper II | |
| | Group-1 | Managerial Economics |
| | Group-2 | Business Environment |
| BBM Second Year | Paper III | |
| | Group-1 | Financial Management |
| | Group-2 | Business Accounting |
| | Paper IV | |
| | Group-1 | Marketing Management |
| | Group-2 | Sales Promotion & Advertising |
| | Group-3 | Project Work on Marketing, Sales or Advertising |



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|----------------|--|---|
| BBM Third Year | Paper V Paper VI Paper VII Paper VIII Group-1 Group-2 | Organizational Behaviour Human Resource Development Computer Application International Business Project Major & Viva |
|----------------|--|---|