



Sai College

(SAI MAHAVIDYALAYA)

(Under Section 2 (f) of the U.G.C Act)



AFFILIATED TO HEMCHAND YADAV UNIVERSITY (DURG UNIVERSITY)

BCA

BBA

B.Com.

◆ PLAIN ◆ COMPUTER APPLICATIONS

M.Com.

B.Sc.

◆ BIOTECHNOLOGY ◆ MICROBIOLOGY ◆ BIOLOGY
◆ MATHS ◆ COMPUTER SC.

B.Lib.

PGDCA

DCA

M.A.
ENGLISH

B.A.

M.Lib.*

M.Sc.

- Chemistry
- Maths
- Biotechnology
- Botany
- Computer Science
- Zoology*

* Proposed from 2024-25

Computer Lab with 350+ Computers

Well equipped labs in all subjects

Qualified and experienced teaching faculty

Hostel facility for Boys & Girls

1:1 Student Computer ratio

Well stocked Library

(Students need not purchase books during the course)
(पूरे कोर्स के दौरान छात्रों को पुस्तकें खरीदने की आवश्यकता नहीं है, कालेज पुस्तकालय से पुस्तकें उपलब्ध कराई जाती हैं।)

Sai College

STREET 69, SECTOR 6, BHILAI, DISTRICT-DURG (CHHATTISGARH)

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Admission Helpline : 7024 886 996

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BCA (Bachelor of Computer Application)

Duration : 3 Yrs., Eligibility : Class 12th

PART - I (2024-25 to 2026-27)

Syllabus of First Year will be Semester Pattern as per NEP - 2020

PART - II (2023-24 to 2025-26)

- Numerical Mathematics
- Operating System
- Relational Database Management System
- Computer Networking and Cyber Technology
- Web Technology
- Hindi
- English
- Lab-3 : Relational Database Management System
- Lab-4 : Web Technology

PART - III (2022-23 to 2024-25)

- Statistical Analysis
 - Programming in Python
 - DOT Net Technology
 - Software Engineering
 - Data Structure
 - Computer System Architecture
 - LAB VII - Programming in Python
 - LAB VIII - DOT Net Technology Lab
 - Project
- Bridge Course in Maths (For Non Maths Students Only)

BBA (Bachelor of Business Administration)

Duration : 3 Yrs., Eligibility : Class 12th

SEMESTER - I

English
Computer Application
Business Mathematics
Principles of Management
Financial Accounting

SEMESTER - II

Hindi
Business Economics
Business Statistics
Cost Accounting
Environmental Studies

SEMESTER - III

Managerial Economics
Business Communication
Business Laws
Business and Environment
Mgmt. Information System (MIS)

SEMESTER - IV

Organisational Behaviour
Marketing Management
HRM
Financial Management
Production Management
Comprehensive Viva

SEMESTER - V

Marketing Research
Quantitative Techniques
Sales & Advertisement Management
Investment Management
Material Management

SEMESTER - VI

Business Policy and Strategy
Enterpreneurship & Small Busi. Mgmt.
Business Taxation
Business Ethics
Project Report and Viva-Voce

B.A. (Bachelor of Arts)

Duration : 3 Yrs.
Eligibility : Class 12th

Sociology
Economics

Any 3 Subject

Political Science
Hindi Literature

DCA (Diploma in Computer Application)

Duration - 1 Year
Eligibility - Class 12th

SEMESTER - I

DCA 101 Essential of Information Technology & OS
DCA 102 Essentials of Office Automation
DCA 103 Programming in C Language
DCA 104 Practical based on DCA 102 & DCA 103

SEMESTER - II

DCA 105 Programming in Python
DCA 106 E-Commerce
DCA 107 HTML & Internet Applications
DCA 108 Practical based on DCA 105 & DCA 107



B.Com. (Bachelor of Commerce)

Duration : 3 Yrs., Eligibility : Class 12th

PART - I (2024-25 to 2026-27)

Syllabus of First Year will be Semester Pattern as per NEP - 2020

PART - II

Environmental Studies

Field Work

A. FOUNDATION COURSE

A. Hindi Language B. English Language

B. THREE COMPULSORY GROUPS

GROUP - I : A. Corporate Accounting

B. Company Law

GROUP - II : A. Cost Accounting

B. Principles of Business Management

GROUP - III : A. Business Statistics

B. Fundamental of Entrepreneurship

PART - III

A. FOUNDATION COURSE -

i) Hindi Language - I ii) English Language - II

COMPULSORY GROUPS

GROUP - I :

i. Income Tax ii. Auditing

GROUP - II :

i. Indirect Taxes with GST ii. Management Accounting

GROUP - III Optional :

Option Group A (Finance Area)

i. Financial Management ii. Financial Market Operations

Option Group B (Marketing Area)

i. Principles of Marketing ii. International Marketing

Option Group C (Commercial Area)

i. Information Technology and its Applications in Business

ii. Essential of e-Commerce

Option Group D (Money Banking & Insurance Area)

i. Fundamental of Insurance ii. Money & Banking System

M.Com. (Master in Commerce)

Duration : 2 Yrs., Eligibility : B.Com.

SEMESTER - I

Managerial Economics
Advanced Accounting
Income Tax Law and Accounts
Statistical Analysis
Corporate Legal Framework

SEMESTER - II

Business Economics
Specialized Accounting
Tax Planning & Management
Advanced Statistics
Business Laws

SEMESTER - III

Management Concept
Organisational Behaviour
Advance Cost Accounting
Management Accounting
Accounting for Managerial Decision

SEMESTER - IV (Optional Specialization)

Group A (Marketing)

Principle of Marketing
Advertising & Sales Management
Marketing Research
International Marketing

Group B (Management)

Financial Management
Personnel Management
Production Management
Strategic Management

Group C (Banking & Insurance)

Banking Practices
Banking Institution of India
Life Insurance
General Insurance

Group D (Taxation & Accounting)

Direct Tax in India
Indirect Tax
Accounting in Service Sector
Accounting Methods

Group E (Business Env. & Finance & Research)

Business Environment
Financial Institutions
Research Methodology
Security Analysis

Additional Subject for B.Com. (Computer Application)

PART - I

Computer Fundamentals
PC Software & Multimedia

PART - II

Internet Application
& E-Commerce
Relational Database
Management System

PART - III

Programming in Visual Basic
System Analysis, Design & MIS

M.A. (English)

Duration : 2 Yrs.

SEMESTER - I

- Poetry-I
- Drama-I
- Prose-I
- Fiction-I
- History of English Literature

SEMESTER - III

- Critical Theory-I
- Indian Writing in English-I
- American Literature-I
- Colonial and Post-Colonial Studies-I
- Linguistics-I

SEMESTER - II

- Poetry-II
- Drama-II
- Prose-II
- Fiction-II
- Modernist Poetry

SEMESTER - IV

- Critical Theory-II
- Indian Writing in English-II
- American Literature-II
- Colonial and Post-Colonial Studies-II
- Linguistics-II



B.Sc. (Bachelor of Science)

Duration - 3 Years
Eligibility - Class 12th in respective subject

B.Sc. - Biotechnology

Option-I - Biotechnology, Chemistry, Zoology
Option-II - Biotechnology, Chemistry, Botany

B.Sc. - Microbiology

Option-I - Microbiology, Chemistry, Zoology
Option-II - Microbiology, Chemistry, Botany

B.Sc. - Biology

Option-I - Chemistry, Zoology, Botany

B.Sc. - Computer Science

Option-I - Physics, Maths, Computer Science

B.Sc. - Maths

Option-I - Physics, Chemistry, Maths

M.Sc. (Computer Science)

Duration - 2 Years

SEMESTER - I

- Mathematical Foundation of Computer Science
- Advance Operating System
- Data Structure through algorithms using 'C'
- Object Oriented Programming using C++
- Computer System Architecture
- Programming Lab based on Paper III
- Programming Lab based on Paper IV

SEMESTER - II

- RDBMS (SQL Programming with Oracle)
- Advanced Computer Networks
- Python Programming
- Principles of Compiler Design
- Numerical Analysis
- Practical based on Paper I
- Practical based on Paper III

SEMESTER - III

- Programming in Java
- Computer Graphics
- LINUX
- Image Processing
- Object Oriented Analysis and Design
- Practical based on Paper I
- Practical based on Paper III

SEMESTER - IV

- Software Engineering
- Research Methodology
- Elective
 1. Data Mining & Data Warehousing
 2. Artificial Intelligence & Expert System
 3. Adv. Computer Architecture
- Major Project/Dissertation Paper Publication (Atleast 1 publication is mandatory during the course)

M.Sc. (Biotechnology)

Duration - 2 Years

SEMESTER - I

- Cell & Development Biology
- Genetics
- Microbiology & Biosafety
- Bio-molecules

SEMESTER - II

- Biostatistics & Computer Applications in Biotech.
- Molecular Biology
- Plant Biotechnology
- Macromolecules & Enzymology

SEMESTER - III

- Genetic Engineering
- Biology of Immune System
- Bioprocess Engineering & Bioentrepreneurship
- Environmental Biotechnology

SEMESTER - IV

- Basic Concept of Bioinformatics & Nano Biotechnology
- Advance Techniques & Research Methodology
- Animal Biotechnology & Bioethics
- Functional Genomics & Proteomics Or
- Project Work/Dissertation



M.Sc. (Chemistry)

Duration - 2 Years

SEMESTER - I

- Group Theory and Chemistry of Metal Complexes
- Concepts inorganic Chemistry
- Quantum Chemistry, Thermodynamics and Chemical Dynamics - I
- Theory and Applications of Spectroscopy - I
- Lab Course - I
- Lab Course - II

SEMESTER - II

- Transition Metal Complexes
- Reaction Mechanisms
- Quantum Chemistry, Thermodynamics and Chemical Dynamics - II
- Theory and Applications of Spectroscopy - II
- Lab Course - III
- Lab Course - IV

- Resonance Spectroscopy, Photochemistry and Organocatalysis
- Chemistry of Biomolecules
- Catalysis, Solid State and Surface Chemistry
- Analytical Techniques and Data Analysis
- Lab Course - V
- Lab Course - VI

- Instrumental Methods of Analysis
- Natural Product and Medicinal Chemistry
- Material and Nuclear Chemistry
- Environmental and Applied Chemical Analysis
- Chemistry of Surfactants
- Nano Chemistry
- Polymers
- Lab Course - VII
- Lab Course - VIII

M.Sc. (Zoology)

Duration - 2 Years

SEMESTER - I

- Biosystematics, Taxonomy and Biodiversity
- Structure and Function of Invertebrates
- Population Genetics and Evolution
- Tools and Techniques in Biology
- Lab Course - I (Based on Paper I & II)
- Lab Course - II (Based on Paper III & IV)

SEMESTER - II

- Molecular Cell Biology & Biotechnology
- General Physiology and Endocrinology
- Development Biology
- Quantitative Biology and Computer Application
- Lab Course - I (Based on Paper I & II)
- Lab Course - II (Based on Paper III & IV)

SEMESTER - III

- Comparative Anatomy of Vertebrates
- Animal Behavior
- Environment Physiology and Population Ecology
- Immunology and Parasitism
- Lab Course - I (Based on Paper I & II)
- Lab Course - II (Based on Paper III & IV)

SEMESTER - IV

- Biochemistry
- Neurophysiology
- One Optional Paper from Group - I
- One Optional Paper from Group - II



M.Sc. (Botany)

Duration - 2 Years

SEMESTER - I

- Cytology
- Genetics
- Microbiology, Phycology and Mycology
- Bryophyta, Pteridophyta and Gymnosperm
- Lab Course-I (Based on paper 1 & III)
- Lab Course-II (Based on paper II & IV)

SEMESTER - II

- Taxonomy and diversity of plants
- Molecular Biology
- Plant physiology
- Plant metabolism
- Lab Course-1 (Based on paper 1 & II)
- Lab-Course-II (Based on paper III & IV)

SEMESTER - III

- Plant development and plant resources
- Plant Ecology-1 (Ecosystem and vegetation ecology)
- Biotechnology I (Genetic engineering of plants & microbes)
- Elective paper-II Limnology-I OR
Elective paper-III, Ethno botany I
- Lab Course-I (Based on paper I & II)
- Lab Course-II (Based on paper III & IV)

SEMESTER - IV

- Plant Reproduction and Utilization of Resources
- Plant Ecology II (Pollution and biodiversity conservation)
- Biotechnology II (Plant cell, tissue & organ culture)
- Elective paper-II Limnology-II OR
Elective paper-III Ethno botany II
- Lab Course-I (Based on paper I & II)
- Lab Course-II (Based on paper III & IV)

M.Sc. (Maths)

Duration - 2 Years

SEMESTER - I

- Advanced Abstract Algebra (I)
- Real Analysis (I)
- Topology
- Advanced Complex Analysis (I)
- Advanced Discrete Mathematics (I)

SEMESTER - II

- Advanced Abstract Algebra (II)
- Real Analysis (II)
- General and Algebraic Topology
- Advanced Complex Analysis (II)
- Advanced Discrete Mathematics (II)

SEMESTER - III

- Integration Theory and
Functional Analysis (1)
- Partial Differential Equations
- Optional Paper from Group - III
- Optional Paper from Group - IV
- Optional Paper from Group - V

SEMESTER - IV

- Functional Analysis
- Mechanics
- Optional Paper from Group - III
- Optional Paper from Group - IV
- Optional Paper from Group - V

PGDCA (Post Graduate Diploma in Computer Application)

Duration - 1 Year, Eligibility - Graduation

SEMESTER - I

- | | |
|-----------|---------------------------------------|
| PGDCA-101 | Introduction to Software Organization |
| PGDCA-102 | Programming in C |
| PGDCA-103 | Office Automation & Tally |
| PGDCA-104 | Practical based on PGDCA-103 |
| PGDCA-105 | Practical based on PGDCA-102 |

SEMESTER - II

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|-----------|---|
| PGDCA-106 | Programming in Python |
| PGDCA-107 | Database Management System |
| PGDCA-108 | Essential of E-Commerce & HTML |
| PGDCA-109 | Practical based on PGDCA-106, PGDCA-107 & PGDCA-108 |
| PGDCA-110 | Project |

B.Lib. (Bachelor of Library & Information Science)

Duration - 1 Year, Eligibility - Graduation

- Library Organisation and Management
- Library Cataloguing and Bibliography
- Reference Sources and Services
- Documentation and Information Services
- Computer Application in Libraries
- Library Classification (Theory)
- Library Classification (Practical)
- Library Cataloguing (Practical)