Sai College

(SAI MAHAVIDYALAYA)

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

AFFILIATED TO HEMCHAND YADAV UNIVERSITY (DURG UNIVERSITY)

BCA & BBA APPROVED BY AICTE

ACCREDITED WITH GRADE B++ NAAC

RECOGNISED BY UGC UNDER SECTION 2(f)

BCA HONORS | **BBA** HONORS | **BCom** HONORS | **MCom** | **MA*** CHHATTISGARHI

* Proposed from 2025-26

BSc HONORS
- BIOTECHNOLOGY
- MICROBIOLOGY
- BIOLOGY
- MATHS
- COMPUTER SC.

BLib | **PGDCA** | **DCA**

MA ENGLISH | **BA** HONORS | **MLib**

- Computer Lab with 400+ Computers
- Well equipped labs in all subjects
- Qualified and experienced teaching faculty
- Hostel facility for Boys & Girls
- 1:1 Student Computer ratio

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

Well stocked Library

(Students need not purchase books during the course)

(पूरे कोर्स के दौरान छात्रों को पुस्तकें खरीदने की आवश्यकता नहीं है, कॉलेज पुस्तकालय से पुस्तकें उपलब्ध कराई जाती है।)

Sai College

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

Tel. 7024886996, 9977001027, 9424137240

Admission Helpline : 7024 886 996

Email : director@saicollege.org, www.saicollege.org


BCA (Bachelor of Computer Application)

BCA (Honors) : 4 Yrs., BCA : 3 Yrs., Eligibility : Class 12th

SEMESTER - I

- Discrete Mathematics
- Computer Fundamental & MS Office
- Operating System
- Generic Elective
- Value Added Course
- English (Ability Enhancement Course)
- LAB 1 Computer Fundamental & MS Office
- LAB 2 Operating System

SEMESTER - II

- Digital Electronics
- Programming in C++
- Data Structure
- Generic Elective
- Skill Enhancement Course
- Hindi (Ability Enhancement Course)
- LAB 3 Programming in C++
- LAB 4 Data Structure
- Bridge Course in Maths (For Non Maths Students Only)

BBA (Bachelor of Business Administration)

BBA (Honors) : 4 Yrs., BBA : 3 Yrs., Eligibility : Class 12th

SEMESTER - I	SEMESTER - II
• Principles of Management	• Business Economics
• Business Mathematics	• Business Statistics
• Financial Accounting	• Cost Accounting
• Generic Elective	• Generic Elective
• Value Added Course	• Skill Enhancement Course
• Environment Studies (Ability Enhancement Course)	• English (Ability Enhancement Course)

B.Com. (Bachelor of Commerce)

B.Com. (Honors) : 4 Yrs., B.Com. : 3 Yrs., Eligibility : Class 12th

SEMESTER - I	SEMESTER - II
• Fundamental of Accounting	• Business Accounting
• Business Law	• Business Mathematics
• Business Economics	• Business Environment
• Generic Elective	• Generic Elective
• Value Added Course	• Skill Enhancement Course
• Environment Studies (Ability Enhancement Course)	• English (Ability Enhancement Course)

B.A. (Bachelor of Arts)

B.A. (Honors) : 4 Yrs., B.A. : 3 Yrs., Eligibility : Class 12th

Sociology	Any 3 Subject	Political Science
Economics		Hindi Literature

DCA (Diploma in Computer Application)

Duration - 1 Year
Eligibility - Class 12th

SEMESTER - I		SEMESTER - II	
DCA 101	Essential of Information Technology & OS	DCA 105	Programming in Python
DCA 102	Essentials of Office Automation	DCA 106	E-Commerce
DCA 103	Programming in C Language	DCA 107	HTML & Internet Applications
DCA 104	Practical based on DCA 102 & DCA 103	DCA 108	Practical based on DCA 105 & DCA 107



B.Sc. (Bachelor of Science)

B.Sc. (Honors) 4 Yrs., B.Sc. 3 Yrs.
Eligibility - Class 12th in respective subject

BIOTECHNOLOGY
(Zoology/Botany Syllabus (NEP)

SEMESTER - I
- Fundamental Chemistry - I
- Elementary Botany / Life on Earth and Unique Attributes of Animal Kingdom
- Cell Biology and Biochemistry
- Generic Elective
- Value Added Course
- English (Ability Enhancement Course)

SEMESTER - II
- Fundamental Chemistry - II
- Microbes and Thallophyta Cell Biology & Histology
- Microbiology & Molecular Biology
- Generic Elective
- Value Added Course
- Hindi (Ability Enhancement Course)

BIOLOGY

SEMESTER - I
- Fundamental Chemistry - I
- Elementary Botany
- Life on Earth and Unique Attributes of animal Kingdom
- Generic Elective
- Value Added Course
- English (Ability Enhancement Course)

SEMESTER - II
- Fundamental Chemistry - II
- Microbes and Thallophyta
- Cell Biology & Histology
- Generic Elective
- Value Added Course
- Hindi (Ability Enhancement Course)

MICROBIOLOGY
(Zoology/Botany Syllabus (NEP)

SEMESTER - I
- Fundamental Chemistry - I
- Elementary Botany / Life on Earth and Unique Attributes of Animal Kingdom
- Introductory Microbiology & Microbial Techniques
- Generic Elective
- Value Added Course
- English (Ability Enhancement Course)

SEMESTER - II
- Fundamental Chemistry - II
- Microbes and Thallophyta Cell Biology & Histology
- Bacteriology, Virology & Protozoology
- Generic Elective
- Value Added Course
- Hindi (Ability Enhancement Course)

MATHS

SEMESTER - I
- Fundamental Chemistry - 1
- Elementary Calculus
- Mechanics
- Generic Elective
- Value Added Course
- English (Ability Enhancement Course)

SEMESTER - II
- Fundamental Chemistry - II
- Algebra
- Electricity & Magnetism
- Generic Elective
- Value Added Course
- Hindi (Ability Enhancement Course)

COMPUTER SCIENCE

SEMESTER - I
- Computer Fundamental & Operating System
- Elementary Calculus
- Mechanics
- Generic Elective
- Value Added Course
- English (Ability Enhancement Course)

SEMESTER - II
- Programming in C++
- Algebra
- Electricity & Magnetism
- Generic Elective
- Value Added Course
- Hindi (Ability Enhancement Course)



M.Sc. (Computer Science)

Duration - 2 Years

SEMESTER - I	SEMESTER - II	SEMESTER - III	SEMESTER - IV
• Mathematical Foundation of Computer Science	• RDBMS (SQL Programming with Oracle)	• Programming in Java	• Software Engineering
• Advance Operating System	• Advanced Computer Networks	• Computer Graphics	• Research Methodology
• Data Structure through algorithms using 'C'	• Python Programming	• LINUX	• Elective 1. Data Mining & Data Warehousing 2. Artificial Intelligence & Expert System 3. Adv. Computer Architecture
• Object Oriented Programming using C++	• Principles of Compiler Design	• Image Processing	
• Computer System Architecture	• Numerical Analysis	• Object Oriented Analysis and Design	
• Programming Lab based on Paper III	• Practical based on Paper I	• Practical based on Paper I	• Major Project/Dissertation Paper Publication (Atleast 1 publication is mandatory during the course)
• Programming Lab based on Paper IV	• Practical based on Paper III	• Practical based on Paper III	

M.Sc. (Maths)

Duration - 2 Years

SEMESTER - I	SEMESTER - II	SEMESTER - III	SEMESTER - IV
• Advanced Abstract Algebra (I)	• Advanced Abstract Algebra (II)	• Integration Theory and Functional Analysis (1)	• Functional Analysis (II)
• Real Analysis (I)	• Real Analysis (II)	• Partial Differential Equations	• Mechanics
• Topology	• General and Algebraic Topology	• Optional Paper from Group - III	• Optional Paper from Group - III
• Advanced Complex Analysis (I)	• Advanced Complex Analysis (II)	• Optional Paper from Group - IV	• Optional Paper from Group - IV
• Advanced Discrete Mathematics (I)	• Advanced Discrete Mathematics (II)	• Optional Paper from Group - V	• Optional Paper from Group - V

M.Sc. (Chemistry)

Duration - 2 Years

SEMESTER - I	SEMESTER - II
• Group Theory and Chemistry of Metal Complexes	• Transition Metal Complexes
• Concepts inorganic Chemistry	• Reaction Mechanisms
• Quantum Chemistry, Thermodynamics and Chemical Dynamics - I	• Quantum Chemistry, Thermodynamics and Chemical Dynamics - II
• Theory and Applications of Spectros Copy - I	• Theory and Applications of Spectroscopy - II
• Lab Course - I	• Lab Course - III
• Lab Course - II	• Lab Course - IV

SEMESTER - III	SEMESTER - IV	
• Resonance Spectroscopy, Photochemistry and Organocatalysis	• Instrumental Methods of Analysis	• Nano Chemistry
• Chemistry of Biomolecules	• Natural Product and Medicinal Chemistry	• Polymers
• Catalysis, Solid State and Surface Chemistry	• Material and Nuclear Chemistry	• Lab Course - VII
• Analytical Techniques and Data Analysis	• Environmental and Applied Chemical Analysis	• Lab Course - VIII
• Lab Course - V	• Chemistry of Surfactants	
• Lab Course - VI		

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. (Biotechnology)

Duration - 2 Years

SEMESTER - I

- Cell & Development Biology
- **Genetics**
- Microbiology & Biosafety
- **Bio-molecule**

SEMESTER - II

- **Biostatistics & Computer Applications in** Biotechnology
- **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 &** Nanobiotechnology
- Advanced Techniques & Research Methodology
- Animal Biotechnology & Bioethics
- **Functional Genomics & Proteomics Or**
- Project Work/Dissertation

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 Molecular Plant Pathology-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.Com. (Master in Commerce)

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

SEMESTER - I	SEMESTER - II	SEMESTER - III
Managerial Economics	Business Economics	Management Concept
Advanced Accounting	Specialized Accounting	Organisational Behaviour
Income Tax Law and Accounts	Tax Planning & Management	Advance Cost Accounting
Statistical Analysis	Advanced Statistics	Management Accounting
Corporate Legal Framework	Business Laws	Accounting for Managerial Decision

SEMESTER - IV (Optional Specialization)

Group A (Marketing)	Group B (Management)	Group C (Banking & Insurance)
Principle of Marketing	Financial Management	Banking Practices
Advertising & Sales Management	Personnel Management	Banking Institution of India
Marketing Research	Production Management	Life Insurance
International Marketing	Strategic Management	General Insurance

Group D (Taxation & Accounting)	Group E (Business Env. & Finance & Research)
Direct Tax in India	Business Environment
Indirect Tax	Financial Institutions
Accounting in Service Sector	Research Methodology
Accounting Methods	Security Analysis

M.Lib.

Eligibility : B.Lib., Duration : 1 Year

SEMESTER - I	SEMESTER - II
• Foundation of Information Science	• Information Retrieval
• Knowledge Organization & Information Processing	• Information Sources, Product & Services
• Research methods & statistical techniques	• Information Technology: Basic & Application
• Management of Library & Information centers/Institutes	• Management Information System
• Information Processing & Retrieval (Practice - 1)	• Information Processing & Retrieval (Practice AACR - 2)

M.A. (English)

Duration : 2 Yrs.

SEMESTER - I

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

SEMESTER - II

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

SEMESTER - III

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

SEMESTER - IV

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

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

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)