



Estd. 1944

GAYA COLLEGE

GAYA (BIHAR)

(A Constituent Unit of Magadh University, Bodh Gaya)

(Accredited by NAAC and Awarded CPE Status by UGC)



Vocational Courses

Bachelor of Business Administration (BBA)
Bachelor of Computer Applications (BCA)
Bachelor of Biotechnology
Bachelor of Biochemistry
Bachelor of Information Technology
Bachelor of Environment & Water Management
Bachelor of Library & Information Science

P rospectus



The Vision

*I climbed and climbed
Where is the Peak My Lord ?
I ploughed and ploughed
Where is the Knowledge-treasure My Lord ?
I sailed and sailed,
Where is the island of Peace, My Lord ?
Almighty, bless my Nation
With vision and sweat resulting into happiness.*

Dr. A.P.J. Abdul Kalam

Hon'ble Ex-President of India

Vision

Enlightenment and Personality development of younger generation to make them assets to the nation by way of

- Academic Reforms with achievement of goals.
- Administrative Reforms with implementation of discipline.
- Development Reforms with infrastructural amenities and Project.

Mission

Creative Human Resource Development by way of :

1. Providing quality education in modern disciplines.
2. Educating the new generation in contemporary knowledge and skill to meet the challenges of nation-building.
3. Inculcating a sense of moral values, national pride and universal brotherhood among students.
4. Diversifying teaching programmes in changing situation to keep pace with the socio-economic demands of the time.
5. Developing better infrastructure and academic environment for attainment of quality education by different categories of students belonging to urban and rural areas.
6. Education Extension Programme with special emphasis on deprived and marginalised section of the society.



Estd. 1944

GAYA COLLEGE, GAYA

(A Constituent Unit of Magadh University, Bodh Gaya)

(Accredited by NAAC and Awarded CPE Status by UGC)

Bachelor (Hons.) Vocational Courses

Bachelor of Business Administration (BBA)

Duration : 3 Years (Full Time) • Course Fee : Rs. 20,000/- annually

Bachelor of Computer Applications (BCA)

Duration : 3 Years (Full Time) • Course Fee : Rs. 25,000/- annually

Bachelor of Biotechnology (B. Sc. Biotechnology)

Duration : 3 Years (Full Time) • Course Fee : Rs. 25,000/-annually

Bachelor of Biochemistry (B. Sc. Biochemistry)

Duration : 3 Years (Full Time) • Course Fee : Rs. 25,000/-annually

Bachelor of Information Technology (B. Sc. IT)

Duration : 3 Years (Full Time) • Course Fee : Rs. 25,000/- annually

Bachelor of Environment & Water Management (B. Sc. EWM)

Duration : 3 Years (Full Time) • Course Fee : Rs. 25,000/- annually

Bachelor of Library & Information Science (BLIS.)

Duration : 1 Year (Full Time) • Course Fee : Rs. 25,000/-

Tel. : 0631 - 2221944, 2222442 (O) Fax : 0631 - 2222442 Toll Free : 1800-3070-9981
E-mail : principalgcgaya@yahoo.com Website : www.gayacollege.ac.in

Departmental Council



Prof. (Dr.) Satish Singh Chandra

Principal-cum-Chairman
Vocational Programme
Gaya College, Gaya

MEMBERS



Dr. Kr. Ambarish Narayan
Head
Dept. of Business Administration



Dr. Amit Kumar
Head
Dept. of Computer Applications



Dr. Archana Kumari
Head
Dept. of Biotechnology



Dr. Shadab Ilyas
Head
Dept. of Information Technology



Dr. Md. Rashid Nayeem
Coordinator / Head
Dept. of Environment & Water Management
Dept. of Library & Information Science



Dr. Adarsh Kumar Gupta
Administrative Officer
&
Bursar



From Principal-cum-Director's Desk ...

Dear Students,

I take immense joy in inviting you to be a part of our citadel of learning. Our array of Professional Programmes is designed to meet the dynamic demands of today's competitive world, blending academic rigour with real-world application. Welcome to Gaya College, Gaya, a premier Institution committed to fostering excellence in education, innovation and professional development at the core of everything we do by offering quality education within the reach of common people.

Our infrastructure includes fully stocked library, national & international Journals, N-LIST access to e-Resources, well-equipped Computer Labs, Auditorium, ultra-modern classrooms, air-conditioned Reading Rooms, Seminar Halls, Conference Halls and Wi-Fi environment to students.

I assure you that the campus facilities, curriculum and our experienced faculty members together will expedite your career growth and will leave no stone unturned to secure you a bright professional future.

Wishing you the very best in your academic pursuits!

Prof. (Dr.) Satish Singh Chandra

*Principal
Gaya College, Gaya*

Gaya College, Gaya : A Legacy of Excellence

Founded in 1944, Gaya College, Gaya stands as one of the premier institutions of higher education in Bihar, with a legacy spanning over eight decades. Located in the historically significant city of Gaya, renowned for its spiritual and cultural heritage, the college has consistently provided quality education, contributing significantly to the intellectual and social upliftment of the region.

With an aim to cater to a wide spectrum of academic interests and career aspirations, Gaya College offers a diverse array of undergraduate, postgraduate and diploma programmes across various disciplines. The college is well-recognised for its vocational & professional programmes, some of the key departments include:

Management (AICTE Approved): Bachelor of Business Administration (BBA) and Master of Business Administration (MBA).

Computer Applications (AICTE Approved): Bachelor of Computer Applications (BCA) and Master of Computer Applications (MCA).

Biotechnology: Bachelor of Biotechnology (B.Sc. Biotechnology) and Master of Biotechnology (M.Sc. Biotechnology).

Biochemistry: Bachelor of Biochemistry (B.Sc. Biochemistry).

Information Technology: Bachelor of Information Technology (B.Sc. IT) and Master of Information Technology (M.Sc. IT).

Environment & Water Management: Bachelor of Environment & Water Management (B.Sc. EWM).

Library Science: Bachelor of Library & Information Science (BLIS) and Master of Library & Information Science (MLIS).

The college is managed and controlled by the provision of law as provided in the Bihar State Universities Acts, Statutes, Ordinances, Rules & Regulations promulgated from time to time under the authority of the Government of Bihar and the Chancellor of the Universities of Bihar. Gaya College, Gaya has been granted the College with Potential for Excellence (CPE) Status by the UGC. Additionally, it has also been accredited with an 'A' Grade by the NAAC twice in consecutive accreditation cycles, reflecting its consistent commitment to academic excellence and quality education.

Gaya College is proud of its accomplished faculty, a group of dedicated educators and scholars who bring both academic rigour and practical experience to the classroom. The faculty members are actively engaged in research, contributing to academic publications and participating in conferences, ensuring that they remain at the cutting edge of their respective fields. Their commitment to mentoring and guiding students plays a crucial role in the overall development of learners.

The college places a strong emphasis on student welfare, offering various scholarships, career counselling services and placement opportunities. Through its **Placement Cell**, the institution maintains active connections with industries and business organisation, facilitating job placements and internships for students across different fields.

Furthermore, Gaya College has vibrant student clubs and societies that foster a spirit of community and leadership. The National Service Scheme (NSS) and National Cadet Corps (NCC) are popular among students, promoting community service and discipline.

Gaya College, Gaya, with its rich heritage, dedicated faculty and holistic approach to education, continues to be a cornerstone of higher learning in Bihar. It remains committed to shaping the future leaders of tomorrow by providing an environment where academic excellence, personal growth and social responsibilities are valued and nurtured.

General Information

Prospectus & Application Form :

Prospectus along with application form for admission may be obtained from the office of the concerned department on payment of Rs. 750/- (non-refundable).

Expenses other than Course Fee :

Besides the course fee and charges, a candidate will have to fill-in the Form of Examinations, University Registration, Migration etc. and deposit the requisite fees for the same as and when required.

Refund Policy :

No fees and charges are refundable. This also applies to the cases of expulsion from the College as well as to all kinds of withdrawals (voluntary or otherwise) from the College enrolment.

Award of Degree :

After the final examination, the Magadh University, Bodh Gaya will publish a list of successful candidates arranged in order of merit. Those who complete the programme successfully will be awarded appropriate degree by the university.

Carry Over Examination :

A candidate who does not clear any paper due to some unavoidable reasons or fails in any paper, shall be promoted (on the discretion of the Principal) to the next year. The candidate has to carry over the year examination. However the result of the final year examination shall not be published till he/she appears and passes in the paper in which he/she failed at the previous examination or has not completed due to any reason. The candidate is not allowed to appear in the final year examination until he/she clears his/her previous papers. The student shall be allowed to clear any paper in consecutive three chances only.

University Registration :

Students will have to get themselves registered on payment of the requisite fees approved by Magadh University, Bodh Gaya. Students will have to submit Migration Certificate from their universities and submit at the time of admission. They will have to fill-up registration form on the dates decided by the university.

Attendance Policy :

Regular attendance is crucial for academic success and professional development. Gaya College, Gaya follows a strict attendance policy, ensuring students' commitment to their academic responsibilities and readiness for future career challenges. Students must maintain a minimum of 75% attendance in each subject during every semester. Failure to meet this requirement will result in being barred from examinations and other academic activities.

Dress Code :

Boys : Black Trousers paired with a White Shirt

Girls : White Salwar, Maroon Suit with White Dupatta

Bachelor of Business Administration (BBA)

Eligibility for Admission :

The eligibility criteria for admission to BBA course are:

- ❖ Intermediate/10+2: Candidates must hold a 10+2/Intermediate (or equivalent) in any discipline from a recognised board.
- ❖ Minimum Percentage: A minimum of 45% marks (40% for some reserved categories) in Intermediate.
- ❖ Final Year Students: Candidates appearing for the final year of their Intermediate/10+2 or awaiting results are also eligible to apply, provided they submit proof of completing their degree within a stipulated time.

Selection Process :

The following steps are taken for admitting the students to BBA course:

- ❖ Advertisements for admission are circulated through National Newspapers generally in the month of May or June every year.
- ❖ All applications received are processed according to the requisite qualifications and conditions.
- ❖ Applicants are called for a written entrance test before the final selection is made.
- ❖ Candidates are shortlisted on the basis of their performance in the written entrance test.
- ❖ The selection process also adheres to the reservation roster as mandated by the Government of Bihar.
- ❖ The University reserves the right to control the admission process by implementing a centralised online admission system for the BBA course. Applicants are advised to stay informed about any updates to the admission procedures, which will be communicated through official channels.

Course Fee & Mode of Payment :

Fees and miscellaneous charges of Rs. 20,000/- (Rupees twenty thousand only) annually for the three years BBA course have to be paid through Bank Challan at the time of admission every year.

Examination Pattern :

- ❖ The students have to appear at the university examination at the end of each year.
- ❖ The students have to submit an Internship report of 25 marks in second year and 50 marks in the third year. The project work shall be supervised by the teachers of the department.
- ❖ They will have to appear at the viva-voce of 25 marks in second year and 50 marks in the third year after submission of the Project Report. A separate viva-voce of Computer Application comprising 25 marks in the third year have to be faced by the students. The viva-voce shall be conducted by the panel of two external examiners appointed by order of the Principal. It is mandatory to submit Project Report and appear in the viva-voce for passing in the paper.
- ❖ Medium of examination is English only.

Bachelor of Computer Applications (BCA)

Eligibility Criteria for BCA:

A candidate must have passed intermediate / senior secondary examination of the 10 + 2 pattern from the recognized board of education or an equivalent examination recognized as equivalent there to by University with at least 45% marks in aggregate for those who belong to general category and 40% marks in the case of a candidate belonging to SC / ST category. The candidate must have mathematics as one of the paper at intermediate level.

Admission Procedure :

Merit list Provided by Magadh University or Entrance Test.

Bachelor of Biotechnology (B. Sc. Biotechnology)

Eligibility and Selection Procedure :

B.Sc. (Biotechnology) in Gaya College, Gaya. Prospective candidates seeking admission to Gaya College, Gaya are required to meet certain eligibility criteria. Which include

Educational Qualifications :

Candidates must have successfully completed the Intermediate or 10 +2 Examination.

Subject Requirement :

Biology should have been one of the subjects studied in the 10+2 curriculum.

Minimum Marks : Candidates must have obtained a minimum of 45% marks in the Intermediate or 10 +2 Examination.

Admission Procedure : Merit list Provided by Maghadh University or Entrance test.

Bachelor of Biochemistry (B. Sc. Biochemistry)

Eligibility and Selection Procedure :

B.Sc. (Biochemistry) in Gaya College, Gaya. Prospective candidates seeking admission to Gaya College, Gaya are required to meet certain eligibility criteria. Which include

Educational Qualifications :

Candidates must have successfully completed the Intermediate or 10+2 Examination.

Subject Requirement :

Physics, Chemistry, Biology should have been the subjects studied in the 10+2 curriculum.

Minimum Marks : Candidates must have obtained a minimum of 45% marks in the Intermediate or 10+2 Examination.

Admission Procedure : Merit list Provided by Magadh University or Entrance test.

Bachelor of Information Technology (B. Sc. IT)

Eligibility and Selection Procedure :

B.Sc. (I.T) in Gaya College, Gaya. Prospective candidates seeking admission to Gaya College, Gaya are required to meet certain eligibility criteria. Which include

Educational Qualifications :

Candidates must have successfully completed the Intermediate or 10+2 Examination.

Subject Requirement :

Mathematics should have been one of the subjects studied in the 10+2 curriculum.

Minimum Marks : Candidates must have obtained a minimum of 45% marks in the Intermediate or 10+2 Examination.

Selection Process : The selection process for admission to B. Sc. IT, Gaya College, Gaya is based on merit. Candidates will be evaluated and shortlisted based on their academic performance in the Intermediate or 10+2 Examination or written test. Those who meet the prescribed eligibility criteria and achieve a competitive merit score will be considered for admission at Gaya College, Gaya

Bachelor of Environmental & Water Management (B. Sc. EWM)

The minimum requirement for admission to this course is intermediate or 10+2 in science with Physics, Chemistry, Biology or Mathematics or Geography as main subjects. Those students who are awaiting their results are also eligible to apply, subject to submission of their marks at the time of their admission. The candidates will have to attach photocopies of the mark sheet of qualifying examination, school or college leaving certificates, two photographs and caste certificates (for reserved quota) along with their application forms.

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

Eligibility and Selection Procedure :

B.Sc. (Biochemistry) in Gaya College, Gaya. Prospective candidates seeking admission to Gaya College, Gaya are required to meet certain eligibility criteria. Which include

Educational Qualifications :

Candidates must have successfully completed the Intermediate or 10+2 Examination.

Minimum Marks : Candidates must have obtained a minimum of 45% marks in the Intermediate or 10+2 Examination.

Admission Procedure : Merit list Provided by Magadh University or Entrance test.

Infrastructural Attractions

Class Rooms

Ideal class rooms with perfect space for interactive lectures, presentations and group activities.

Library

Equipped with a quiet study space and separate reading rooms, the library provides students with access to the latest industry insights, case studies & academic publications.

Computer Lab

The computer labs are equipped with state-of-the-art technology with high speed internet, latest software for data analysis, business simulations & project management tools.

Conference Hall

Air-conditioned Conference Halls with comfortable seating arrangements to accommodate 100 persons fitted with LCD projectors, smart board & public address systems.

Language Lab

Communication is the single most vital skill for both learning and employment. A dedicated language lab is there for students to train them in English communication.

Hostel for Boys & Girls

The College provides separate hostels for boys and girls with well-furnished rooms, high speed Wi-Fi, 24/7 electricity backup, clean drinking water and standard mess facility. Round-the-clock security, CCTV surveillance and medical assistance ensure students' safety & well-being.

Sports & Games

Sports & Games are the integral part of learning. It offers a holistic approach to students well-being and teamwork development. Our campus features state-of-the-art indoor & outdoor facilities, including outdoor sports, indoor games, annual sports events and fitness centre (gymnasium) under the supervision of experienced PT instructor.

Anti-Ragging Campus

We strictly adhere to the Anti-Ragging Policy as per UGC regulations. Any form of ragging-physical, mental or emotional is strictly prohibited. Our College ensures a zero-tolerance policy towards ragging and harassment.

Gender Sensitisation Cell

The cell aims to promote awareness and understanding of gender equality among students. It works to create a safe, inclusive and respectful environment by addressing issues of gender discrimination and bias.

Bachelor of Business Administration (BBA)



FROM THE DESK OF THE H.O.D.

Dear Students,

Congratulations for taking the first step towards your professional career. The BBA (AICTE approved) course at our institution is highly acclaimed and forward-looking, designed to provide you with a strong foundation in business principles and develop essential management skills for the dynamic world of business.

Our curriculum integrates core management concepts with vocational training, ensuring your preparedness for the corporate world. Over the years, we have grown our expertise to create a learning environment where management skills, leadership, knowledge and technology blend together.

We are guided by a strong value system that enables us to give you the best and nurtures you as the future citizen of the nation. We have taken utmost care to plan your academic routine effectively keeping in view the holistic development of your personality. I welcome you to join Gaya College, Gaya, and we look forward to supporting you on your journey towards a successful and fulfilling career.

Wishing you all the best!

Dr. Kumar Ambarish Narayan
Head
Department of Business Administration
Gaya College, Gaya

Course Plan

Course Duration and System : Undergraduate/Three Years Full Time BBM Programme.

Course Structure : BBM

FIRST YEAR

| Paper Code | Paper Title | Marks |
|------------|----------------------------|-------|
| H – I (A) | Fundamentals of Management | 75 |
| H – I (B) | Qualitative Techniques | 25 |
| H – II (A) | Managerial Economics | 50 |
| H – II (B) | Business Environment | 50 |
| Sub – I | English – I | 100 |
| Sub – II | Economics – I | 100 |
| Comp – I | Hindi Composition – I | 100 |

SECOND YEAR

| Paper Code | Paper Title | Marks |
|-------------|--------------------------------|-------|
| H – III (A) | Financial Management | 50 |
| H – III (B) | Business Accounting | 50 |
| H – IV (A) | Marketing Management | 50 |
| H – IV (B) | Advertising & Public Relations | 25 |
| H – IV (C) | Project Work & Viva-Voce | 25 |
| Sub – III | English – II | 100 |
| Sub – IV | Economics – II | 100 |
| Comp – II | Hindi Composition – II | 100 |

THIRD YEAR

| Paper Code | Paper Title | Marks |
|--------------|--------------------------------|-------|
| H – V | Organisational Behaviour | 100 |
| H – VI | Human Resource Management | 100 |
| H – VII (A) | Computer Applications | 75 |
| H – VII (B) | Computer Practical & Viva-Voce | 25 |
| H – VIII (A) | International Business | 50 |
| H – VIII (B) | Project Work & Viva-Voce | 50 |
| GS | General Studies | 100 |

Internship Opportunities

Our BBA Programme offers students the opportunity to gain hands-on experience with leading companies across diverse industries. Some esteemed companies are :

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Core Faculty Members

Dr. Kumar Ambarish Narayan

Asst. Professor & Head
Dept. of Business Administration
Gaya College, Gaya

Mrs. Amrita Sinha

Asst. Professor
Dept. of Business Administration
Gaya College, Gaya

Dr. Sushant Kumar Mukherjee

Asst. Professor
Dept. of Business Administration
Gaya College, Gaya

Mr. Ajeet Raj

Asst. Professor
Dept. of Business Administration
Gaya College, Gaya

Visiting Faculty

Dr. Shashi Ranjan Rastogi

Former Dean, Faculty of Management
Magadh University, Bodh Gaya

Dr. Maheshwar Prasad Yadav

Former Professor
PG Dept. of Economics
Magadh University, Bodh Gaya

Dr. Satyendra Prajapati

Principal
Jagjiwan College, Gaya

Dr. Shruti Priya

Head, Dept. of Economics
Gaya College, Gaya

Dr. Vandana Kumari

Asst. Professor
Dept. of LSW
Magadh University, Bodh Gaya

Dr. Panna Lal

Head, Dept. of Commerce
Gaya College, Gaya

Dr. Anwar Khurshid Khan

Head & Dean,
Faculty of Commerce
Magadh University, Bodh Gaya

Dr. Sonu Annapurna

Assoc. Professor, Dept. of Hindi
Gaya College, Gaya

Dr. Adarsh Kumar Gupta

Asst. Professor, Dept. of Economics
Gaya College, Gaya

Dr. Shadab Ilyas

Assistant Professor
Dept. of Information Technology
Gaya College, Gaya



Bachelor of Computer Applications (BCA)



FROM THE DESK OF THE H.O.D.

Dear Students,

Our BCA program focuses on developing cutting edge computer professionals to effectively and efficiently fulfil the needs of the market.

It is our immense pleasure to welcome you to the Department of Computer Applications (BCA).

It is started with an aim to nurture graduate students with a high level of professional performance and high employability prospects. In every post graduate program, one should seek deep understanding of central disciplines, to widen the range of possibilities.

The department provides an outstanding academic environment complemented by excellent teaching faculty and the state-of-the-art infrastructure. The comprehensive curriculum with more value added covers all range of topics related to computer science and its applications with added emphasis on knowledge based learning and practical exercises.

The Department provides various values added training programs, various activities, and placement assistance and drives to inculcate high technical skills, culture of teamwork, leadership qualities for achieving excellence and thereby increasing employability skills. The core values of the department help the students to develop their overall personality and make them worthy technocrats to compete and work at global level.

We are very fortunate to have outstanding staff, students and facilities. We look forward to build a most excellent and vibrant academic environment to grab the world wide opportunities.

Wishing you a bright future.

Dr. Amit Kumar

Head

Department of Computer Applications
Gaya College, Gaya

Course Plan

Course Structure : BCA

FIRST YEAR

| Sl. No. | Paper Title | Theory | Practical |
|---------|--|--------|-----------|
| | Paper - I | 75 | 25 |
| 1 | Computer Fundamental & Office Automation | | |
| 2 | Programming in 'C' | | |
| | Paper - II | 75 | 25 |
| 3 | Introduction to Algorithm | | |
| 4 | Introduction to Digital Circuits | | |
| 5 | Operating System and Linux | | |

SECOND YEAR

| Sl. No. | Paper Title | Theory | Practical |
|---------|--|--------|-----------|
| | Paper - III | 75 | 25 |
| 6 | Object Oriented Programming in C++ | | |
| 7 | Concepts of Communication and Networking | | |
| | Paper - IV | 75 | 25 |
| 8 | Database Management Systems | | |
| 9 | System Analysis and Designing | | |
| 10 | Data Structures using 'C' | | |

THIRD YEAR

| Sl. No. | Paper Title | Theory | Practical |
|---------|--|--------|-----------|
| | Paper - V | 100 | |
| 11 | Windows Programming using Visual Basic | | |
| 12 | E-Commerce | | |
| | Paper - VI | 100 | |
| 13 | Object Oriented Technology and Java | | |
| 14 | Internet Concepts and Web Design | | |
| | Paper - VII | | 100 |
| 15 | Practical | | |
| | Paper - VIII | | 100 |
| 16 | Project Work | | |
| | Subsidiary | | |
| 17 | Basic Mathematics | | 100 |
| 18 | Business Communication | | 100 |
| 19 | Hindi Composition | | 100 |

Faculty Members

Dr. Amit Kumar (In-Charge)
Ph. D, MCA

Mr. Kumar Shekhar Singh
MCA

Er. Avinash Kumar
B. Tech.

Dr. Zeenat Parween
Ph. D, MCA

Mr. Amit Kumar
MCA

Mr. Satyendra Kumar
Ph.D (Pursuing), MCA

Mr. Amarjeet Kumar
M.Sc. IT

Md. Usman Ghani
Ph. D (Pursuing), MCA

R. S. Suryamani
MCA

Mr. Shambhu Kumar
MCA

Dr. Dharmendra Kumar
Ph.D, MCA



Bachelor of Biotechnology



FROM THE DESK OF THE H.O.D.

Biotechnology is the fastest growing applied science of modern times and is rapidly becoming the corner stone of industrial development and leading us to the brink of bio industrial revolution. The application of biotechnological processes has great impact on the society and there is enormous curiosity in the minds of younger generation about the potentiality of this fascinating field of science. It is expected to bring about radical change in the strata of the society.

The Department of Biotechnology, Gaya College, Gaya offer undergraduate, postgraduate and doctoral programs that equip students with theoretical knowledge, practical skills and industry-ready expertise. I encourage our students to explore interdisciplinary research collaborations, internships and entrepreneurship opportunities.

Together let's harness the power of biotechnology to create a better future. I extend a hearty welcome to the students opting for undergraduate and postgraduate courses of Biotechnology in Gaya College, Gaya and wish them all success.

Dr. Archana Kumari

Head

*Department of Biotechnology
Gaya College, Gaya*

Course Plan

Course Structure : B. Sc. Biotechnology (Hons.)

B. Sc. Biotechnology Part - I

| Paper - I | | F. M. 75 |
|------------------------------|--------------------|----------|
| a | Biochemistry | |
| b | Microbiology | |
| c | Cell Biology | |
| Paper - II | | F. M. 75 |
| a | Maths and Computer | |
| b | Genetics | |
| Practical | | F. M. 50 |
| Subsidiary Paper (Theory) | | F. M. 75 |
| a | Botany | |
| b | Chemistry | |
| Subsidiary Paper (Practical) | | F. M. 25 |

B. Sc. Biotechnology Part - II

| Paper - III | | F. M. 75 |
|---------------------------|----------------------------|----------|
| a | Recombinant DNA Technology | |
| b | Molecular Biology | |
| Paper - IV | | F. M. 75 |
| a | Immunology | |
| b | Biophysics | |
| Practical | | F. M. 50 |
| Subsidiary Paper (Theory) | | F. M. 75 |
| a | Botany | |
| b | Chemistry | |

B. Sc. Biotechnology Part - III

| Paper - V | | F. M. 100 |
|------------------------|-----------------------------|-----------|
| a | Animal Cell Culture | |
| b | Animal Cell Biotechnology | |
| Paper - VI | | F. M. 100 |
| a | Plant Biotechnology | |
| Paper - VII | | |
| a | Environmental Biotechnology | |
| Paper VIII : Practical | | F. M. 100 |
| a | Molecular Cell Biology | |
| b | Plant Tissue Culture | |

Resident Faculty

Dr. Archana Kumari

Head
PG Centre of Biotechnology
Gaya College, Gaya

Dr. Murlidhar Mishra

Assisant Professor
PG Centre of Biotechnology
Gaya College, Gaya

Dr. S. M. Shakil Ahmad

Assisant Professor
PG Centre of Biotechnology
Gaya College, Gaya

Visiting Faculty

Dr. M. Alam

Dr. Rafique Alam

Mrs. Kumari Priyanka

Dr. Nutan Chaurasia

In House Faculty

Dr. Priyanka Kumari

Dept. of Hindi
Gaya College, Gaya

Dr. Richa Singh

Dept. of Chemistry
Gaya College, Gaya

Dr. Shadab Ilyas

Dept. of I. T.
Gaya College, Gaya



Bachelor of Biochemistry

Course Plan

Course Structure : Bachelor of Biochemistry

FIRST YEAR

| Paper No. | Paper Title |
|------------|----------------------------|
| Paper - I | CHEMISTRY OF BIO-MOLECULES |
| Paper - II | BIOCHEMICAL TECHNIQUES |

SECOND YEAR

| Paper No. | Paper Title |
|-------------|-----------------------------|
| Paper - III | ENZYMOLGY |
| Paper - IV | METABOLISM OF BIO-MOLECULES |

THIRD YEAR

| Paper No. | Paper Title |
|-------------|---|
| Paper - V | MOLECULAR GENETICS |
| Paper - VI | MOLECULAR BIOLOGY |
| Paper - VII | CLINICAL AND ENVIRONMENTAL BIOCHEMISTRY |



Bachelor of Information Technology



FROM THE DESK OF THE H.O.D.

Dear Students,

Welcome to the Department of Information Technology, Gaya College, Gaya. As the Head of the Department, I am delighted to introduce you to a program that stands at the forefront of technological innovation and development. The field of IT is one of the strong pillars of the Make in India drive by Govt. of India.

The IT department prides itself on its collaborative spirit, fostering not only academic excellence but also teamwork, creativity and problem-solving. We are fortunate to have a highly motivated faculty and under the guidance of dynamic and visionary Prof. (Dr.) Satish Singh Chandra, Principal Gaya College, Gaya. IT department of Gaya College also received immense support and blessings of Vice Chancellor, M.U, Bodh Gaya. Our department is dedicated to nurturing the next generation of IT professionals who will shape the future of technology. We offer a curriculum that blends strong theoretical foundations with practical, hands-on experience. Our labs are equipped with latest technology, and our teaching methodologies are continually updated to reflect the ever-changing landscape of IT. Whether it's in the fields of Artificial Intelligence, Machine Learning, Data Science, Computer Networks, Cyber Security, Software development, Website development, our program prepares you to excel in both local and global industries.

I encourage you to take full advantage of the opportunities available here. Participate in projects, internship, workshops, and seminars. We look forward to supporting you as you embark on this exciting journey,

Best wishes for a successful academic year ahead!

Dr. Shadab Ilyas

Head

Department of Information Technology
Gaya College, Gaya

Course Plan

Course Structure : B. Sc. (IT)

FIRST YEAR

| | PAPER – I | F. M :- 75 |
|-------------|--|------------|
| SECTION –A | Fundamentals of Information Technology | |
| SECTION – B | Structured Programming using ‘ C’ Language | |
| SECTION – C | Introduction to IBM Architectures | |
| | PAPER – II | F. M :- 75 |
| SECTION –A | Database Management Systems | |
| SECTION – B | Operating System Concepts | |
| SECTION – C | Basic Electronics | |

SECOND YEAR

| | PAPER – III | F. M :- 75 |
|-------------|---------------------------------------|------------|
| SECTION –A | Data Structure | |
| SECTION – B | Discrete Mathematics | |
| SECTION – C | LINUX | |
| | PAPER – IV | F. M :- 75 |
| SECTION –A | Object Oriented Programming Using C++ | |
| SECTION – B | Computer Networking & Internet | |
| SECTION – C | Digital Computer Organisation | |

THIRD YEAR

| | PAPER – V | F. M :- 100 |
|-------------|--------------------------------------|-------------|
| SECTION –A | JAVA Programming | |
| SECTION – B | Internet and Web Designing | |
| SECTION – C | Introduction to Network Security | |
| | PAPER – VI | F. M :- 100 |
| SECTION –A | Visual Programming with Visual Basic | |
| SECTION – B | SQL Server | |
| SECTION – C | System Analysis & Design | |
| | PAPER – VII (PRACTICAL) | F. M :- 100 |
| | PAPER – VIII (PROJECT & VIVA VOCE) | F. M :- 100 |

COMPULSORY SUBJECT BESIDES HONS. PAPER

| | COMPOSITION (DEGREE I & II) | |
|---|-----------------------------------|-------------|
| A | Alternative English / Urdu | F. M :- 50 |
| | Hindi Composition | F. M :- 50 |
| B | Or Hindi Composition | F. M :- 100 |
| | SUBSIDIARY PAPERS (DEGREE I & II) | |
| A | Mathematics | F. M :- 100 |
| B | Physics (Theory) | F. M :- 75 |
| | Physics (Practical) | F. M :- 25 |

Resident Faculty

Dr. Shadab Ilyas (HOD)

Dr. Masud Alam

Ms. Bharti Singh

Dr. Jolly Pandey

Ms. Smriti Mishra

Md. Rashid

Dr. Ashwani Kumar

Visiting Faculty

Dr. V. K. Verma

Hod, Dept. of Physics
M.U. Bodhgaya

Sri Kumar Shekhar Singh

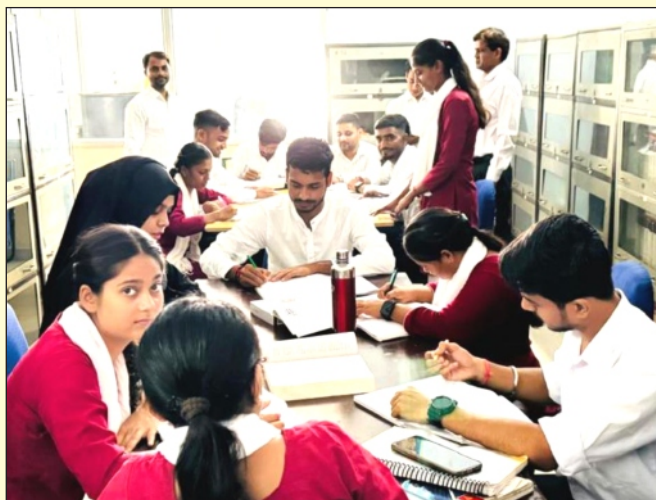
Dept. of Computer Applications
Gaya College, Gaya

Dr. Md. Sadique

Hod, Dept. of English
Gaya College, Gaya

Dr. Sonu Annapurna

Dept. of Hindi
Gaya College, Gaya



Bachelor of Environment & Water Management (B. Sc. EWM)



FROM THE DESK OF THE COORDINATOR

As the coordinator of the Department of Environment and Water Management, I am pleased to welcome you to another exciting and enriching academic term. Our department plays a vital role in shaping the future overseers of the environment and I am confident that each one of you will contribute significantly to this noble cause. The challenges we face today in managing our environment and water resources are both complex and urgent. Our department is dedicated to addressing some of the most pressing environmental challenges of our time, particularly in the realm of sustainable water management and ecological conservation. As global concerns surrounding climate change, biodiversity loss, and water scarcity grow, the need for professionals who can devise innovative solutions to protect and manage our natural resources has never been greater.

Here, we emphasize a multidisciplinary approach, combining scientific understanding with practical applications in policy, technology, and community engagement. Our curriculum is designed to give you a solid foundation in environmental sciences while equipping you with the tools necessary to tackle real-world environmental problems. Whether through fieldwork, lab-based research, or community-driven projects, you will gain hands-on experience that prepares you for a meaningful career in this vital field.

We are proud to offer a vibrant academic environment with access to state-of-the-art facilities, experienced faculty, and numerous opportunities for professional development. We encourage you to explore, innovate, and challenge the status quo as you contribute to a more sustainable future.

As you embark on this journey, I invite you to take full advantage of the resources and opportunities available to you here. Together, we can make a positive impact on the environment and society.

Dr. Md. Rashid Nayeem

Coordinator

Department of Environment and Water Management
Gaya College, Gaya

Course Plan

Course Structure : Bachelor of Environment & Water Management

FIRST YEAR

| Sl. No. | Paper Title | Marks |
|---------|--|-------|
| | Paper - I | 75 |
| A. | FUNDAMENTALS OF ENVIRONMENTAL SCIENCE - I | |
| B. | FUNDAMENTALS OF ENVIRONMENTAL SCIENCE - II | |
| | Paper - II | 75 |
| A. | ENVIRONMENT AND ITS POLLUTION - I | |
| B. | ENVIRONMENT AND ITS POLLUTION - II | |

SECOND YEAR

| | | |
|----|--------------------------------|----|
| | Paper - III | 75 |
| A. | WATER RESOURCE MANAGEMENT - I | |
| B. | WATER RESOURCE MANAGEMENT - II | |
| | Paper - IV | 75 |
| A. | WATER QUALITY MANAGEMENT - I | |
| B. | WATER QUALITY MANAGEMENT - II | |

THIRD YEAR

| | | |
|---|-----------------------------|-----|
| | Paper - V | 100 |
| A. | ENVIRONMENT MANAGEMENT - I | |
| | Paper - VI | 100 |
| A. | ENVIRONMENT MANAGEMENT - II | |
| Laboratory / Project / Field Work | | |
| Part - I : Practicals based on Paper - I and II | | 50 |
| Part - II : Practicals based on Paper - III and IV | | 50 |
| Part - III (Paper VII) : Project Work & Job Training | | 100 |
| (Paper VIII) : Practical | | 100 |

Bachelor of Library and Information Science (B. LIS.)



FROM THE DESK OF THE H.O.D.

Welcome to the Department of Library and Information Science. We are delighted to have you explore our programs, which are designed to equip students with the knowledge, skills, and values needed to navigate the rapidly evolving field of information science. In today's world, access to, organization, and dissemination of information are critical to success in almost every profession. Our department strives to provide a comprehensive education that integrates traditional librarianship with cutting-edge technology, ensuring our graduates are well-prepared for the challenges of the digital age.

Our curriculum is crafted to give you a solid foundation in both theoretical and practical aspects of the field, covering areas such as information management, archival science, digital libraries, and knowledge organization. We are proud to offer a learning environment that encourages research, critical thinking, and collaboration, supported by faculty who are passionate about both teaching and the advancement of information science.

At our department, we emphasize the importance of lifelong learning, professional ethics, and leadership in the information profession. We also have strong partnerships with libraries, archives, and information centers that provide our students with opportunities for internships and hands-on experience. We are proud of our vibrant academic community, which includes faculty who are leaders in research and practice, as well as students who bring a passion for learning and discovery. Our facilities provide access to the latest technologies and resources, ensuring that you are well-prepared to navigate the future of information services.

Whether you are pursuing a career in librarianship, digital archives, or any of the many facets of information science, we look forward to supporting you on your academic journey. Welcome to a department where information meets innovation, and where your future in the field begins

Dr. Md. Rashid Nayeem

Head

*Department of Library and Information Science
Gaya College, Gaya*

Course Structure : Bachelor of Library & Information Science (B. LIS.)

| | | |
|---------------------|--|-----------|
| Paper - I | Foundations of Library and Information-Science | 100 Marks |
| Paper - II | Library Management | 100 Marks |
| Paper - III | Knowledge Organisation - Classification | 100 Marks |
| Paper - IV | Knowledge Organisation - Cataloguing (Theory) | 100 Marks |
| Paper - V | A. Knowledge Organisation - Classification (Practical) | 100 Marks |
| | B. Knowledge Organisation - Cataloguing (Practical) | |
| Paper - VI | Information Sources and Services | 100 Marks |
| Paper - VII | Computer Basics and Applications | 100 Marks |
| Paper - VIII | Project and Tour Report | 100 Marks |

Faculty Members

Preety Chandan

Bushra Karim

Sadhana Dubey

Rajesh Kumar

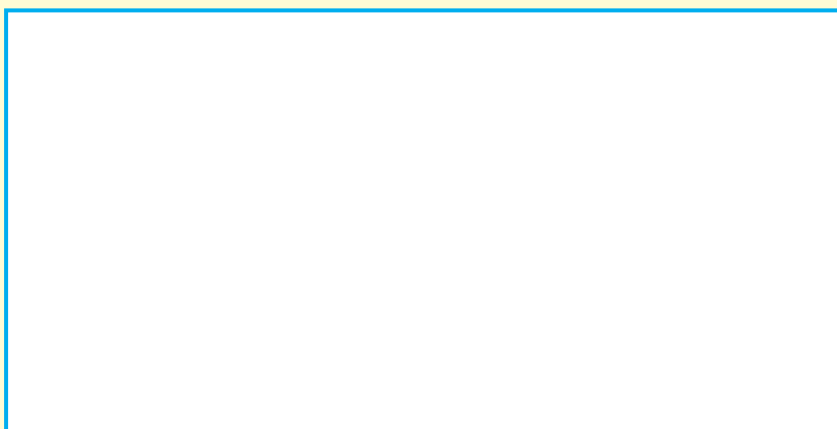
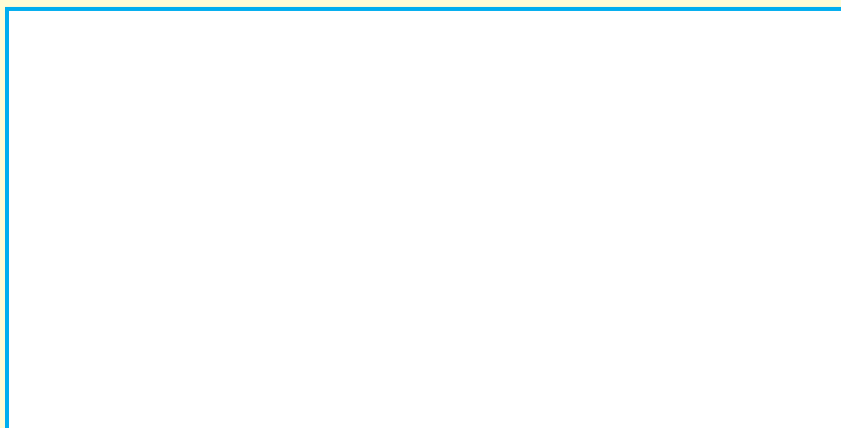
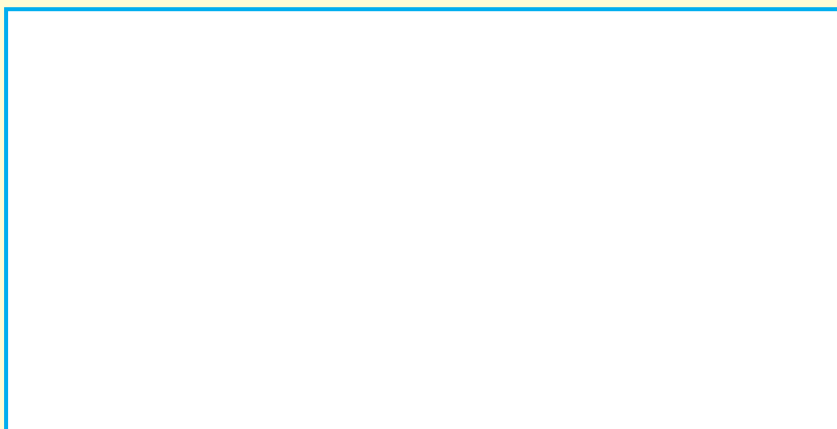
Mukesh Kumar



Glimpses of Activities



Glimpses of Activities





Estd. 1944

कुल-गीत

(राग-भरैवी; तीन ताल)

गया महाविद्यालय सुन्दर,
आत्म-दीप की शिखा समुज्ज्वल ।
ब्रह्म-योनि की पार्श्व-भूमि में,
नित नवीन यह ज्ञान-कमल-दल ।।1।। गया..
विष्णु-पुरातन-नगरी में यह,
अमर-बेलि ज्योतिर्ध्रुवतारा ।
अन्तःसलिला से अनुप्राणित,
ज्ञान-भक्ति-सत्कर्म-सुधारा ।।2।। गया..
असुर-निकन्दन प्रेम-प्रबोधन,
यह विद्या-मन्दिर अविनश्वर ।
बुद्ध-विवेकानन्द-महाप्रभु,
शंकर-पद-अवतारित सस्वर ।।3।। गया..
विज्ञान-कला-वाणिज्य सुसंगम,
व्याष्टि-समष्टि-समन्वित दीक्षा ।
भौतिकता-अध्यात्म-एकता,
सत्य-स्नेह संप्लावित शिक्षा ।।4।। गया..

Sprawling Campus



GAYA COLLEGE, GAYA

(A Constituent Unit of Magadh University, Bodh-Gaya)

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