

PROSPECTUS

**FOR ADMISSION TO COURSES OFFERED THROUGH
SAMBALPUR UNIVERSITY**

FOR THE ACADEMIC SESSION 2026-27

Integrated B.Sc-M.Sc and P.G. Diploma



SAMBALPUR UNIVERSITY

(Accredited with "A" Grade by NAAC)

**JYOTI VIHAR, BURLA
SAMBALPUR-768 019
ODISHA**

Website: www.suniv.ac.in

CONTENTS

<u>Sl.No.</u>	<u>Particulars</u>	<u>Page No.</u>
1.	About the University	3
2.	Courses Offered	4
3.	e-Admission Procedure	4 – 6
4.	Date Line & Time Line for Admission	6
5.	Eligibility Criteria for Admission	7
6.	Reservation Policy	7-8
7.	Selection Procedure	8
8.	Submission of Admission Documents	8
9.	Admission and Course Fee	9
10.	General Instructions	10
11.	Penalty & Punishment for Ragging	10
12.	General Discipline	10-11
13.	Interpretation	11
14.	Hostel Admission Rules and Related Matters	11–13
15.	Final Clearance	13
16.	Course Structure	13–22

ABOUT THE UNIVERSITY

The Sambalpur University Act was passed by the Odisha Legislature on 10th December, 1966 to fulfil the long cherished dream of the people of Western Odisha for establishment of a University. The University started functioning from 1st January, 1967 with Prof. Parsuram Mishra as the first Vice Chancellor. The University was inaugurated on 4th January, 1967 by Hon'ble Chancellor A.N. Khosla. The University started functioning in 1967 in a rented private building at Ainthapali, Sambalpur from 1968-72. In the year 1973 the University was shifted to the present campus named Jyoti Vihar at Burla.

Sambalpur University is accredited with 'A-Grade' by UGC (NAAC). The present territorial jurisdiction of the University covers 06 districts, namely, Sambalpur, Sundargarh, Jharsuguda, Deogarh, Bargarh, Boudh and Athmallik Sub-Division of Angul District of Odisha.

The University offered 36 courses run by 26 Post Graduate Departments. Besides, the constituent institute of Sambalpur University namely, Sambalpur University Institute of Information Technology (SUIIT) offers B.Tech., M.Tech., M.Sc. and Ph.D. Programmes in different disciplines of Engineering and Technology. For admission and other details to these courses visit: www.suiit.ac.in

There are 14 Post-Graduate Hostels in the University Campus out of which 08 are Ladies Hostels and 06 are Gents Hostels. The University provides several facilities to the boarders in the Hostels like Common Room with T.V., Reading Room with Newspapers and Magazines, Guest Room, First Aid, Computer with Internet facilities etc. The Central Canteen has been opened near the Hostel Campus for the benefit of students. Besides there are 02 Nationalised Banks, 02 ATM Counters, 01 Post-Office, 01 Health Centre, 02 Auditorium, 01 Police-Out Post, 01 Faculty House and 01 Community Centre in the University Campus for providing services to students/teachers and employees in the Campus.

The establishment of Directorate of Distance and Continuing Education (DDCE), Private Examination Cell (PEC), Nodal Computer Centre, UGC HRDC, R&D Cell, Professor Bhubaneswar Behera Central Library and Gymnasium are added features of Sambalpur University.

The establishment of Centre for Distance and Online Education (CDOE), Private Examination Cell (PEC), Nodal Computer Centre, UGC HRDC, R&D Cell, Professor Bhubaneswar Behera Central Library and Gymnasium are added features of Sambalpur University.

1. COURSES OFFERED

The following self-financing courses are offered under Choice Based Credit System (CBCS) in the Semester mode during the academic session 2026-27. The sanctioned seats for each course are mentioned as below:

Sl. No.	Course	Department	Seat Strength
1.	Integrated B,Sc-M.Sc. Biotechnology (5 Years, 10 Semesters)	Department of Biotechnology and Bioinformatics	24
2.	P.G. Diploma in Forensic Science and Criminology (1 Year, 2 Semesters)	Department of Anthropology	32
3.	P.G. Diploma in Environmental Impact Assessment (1 Year, 2 Semesters)	Department of Environmental Sciences	30

The merit list will be prepared based on career marks only, and no Entrance Test will be conducted.

2. e-ADMISSION PROCEDURE

Candidates desirous of seeking admission to the courses mentioned above are required to submit their applications online by adopting the following procedure:

- (i) **Online filling up of application form shall begin w.e.f. 18.08.2026 (8:00 AM onwards)**
The last date of submission of application online is 27.08.2026 (till 5:00 PM)
- (ii) Candidates, in order to submit the application for admission, are required to login to the following link:
<http://www.suniv.ac.in> and click ADMISSION → “online admission”
- (iii) The candidates may download the admission Prospectus-2026-27 and read it carefully before filling the form online.
- (iv) The candidate will have to **pay Rs.750 (Rupees Seven Hundred Fifty)** only towards application fee through State Bank Collect through **Debit Card, Net Banking facility of any Bank besides visiting any SBI branch to deposit by cash or cheque drawn on any SBI Branch.** The procedure for depositing the application fee through State Bank Collect is as follows:
 - ☞ Visit online banking website of SBI by typing **onlinesbi.sbi/sbicollect/** or **State Bank Collect** in the address bar of the browser viz. internet explorer. Once the home page appears click on ‘**Educational Institution**’ tab in the **Select Category**.
 - ☞ Select the State as ‘**Odisha**’.
 - ☞ Now select Educational Institution Name as ‘**SAMBALPUR UNIVERSITY P.G. COUNCIL**’.
 - ☞ Select the payment category from the drop down as “**Integrated B.Sc-M.Sc**” or “**P.G. Diploma**” Admission.
 - ☞ Before filling the challan, read the Payment Details/Structure Document carefully and ascertain the fees amount applicable to you.
 - ☞ Fill in the challan with required information as asked for or select from the drop down options wherever available. **Take adequate care while filling in (a) Name (b) Date of Birth & (c)**

Mobile Number as asked for in the lower part of the screen. This information is important to reprint the e-Receipt subsequent to any successful payment.

- ☞ Once required data is filled in click on ‘**Submit**’.
- ☞ The system will ask you to verify the details entered and confirm the transaction in the next page. Verify the details and click on ‘**Confirm**’.
- ☞ The system will request you to select the desired payment mode from various options. Please note that the bank charges for various payment modes are also displayed which is to be borne by the remitter. **Carefully examine the charges displayed since the charges for different payment mode are different.** Select the desired payment mode.
- ☞ Now the system will guide the remitter through the payment process. Once the payment is completed successfully one e-Receipt will be generated containing a **Reference Number** in PDF format. Take a print out of the e-Receipt. You may also save this optionally for future reference. The e-Receipt can also be regenerated/reprinted afterwards from ‘**Transaction History**’ link of ‘**State Bank Collect**’.

If ‘**SBI Branch**’ is selected as payment mode, a Pre Acknowledgement Payment (**PAP**) form will be generated which contains the relevant details for payment at Branch. The payer takes the print out of the PAP Form and visits **any SBI Branch** for payment through **cash or cheque drawn on SBI Branch**. After the payment is successfully processed by the branch, the branch will give an acknowledgment of payment on the PAP Form. Now any time the payer may optionally return to ‘State Bank Collect’ link and generate e-receipt from Transaction History.

- (v) The candidate should then register himself/ herself (through appropriate link) by providing the following information:
- (a) Name of the course
 - (b) Name of the candidate
 - (c) Email ID
 - (d) SB Collect Reference No. (provided by the Bank)
 - (e) SBI Branch Name
 - (f) Password (to be created by the candidate)

The information as pre-page for registration is vital and the candidate should carefully note down those for future use.

- (vi) The candidates can then fill up the form online. After completion of all the fields in the form, the candidates should click the “**submit**” button. Thereafter a page will be opened with all the information of the candidate that he/she has filled in.

After submitting the application online, the candidate has to take a printout of this page and send/submit the same, along with the following documents to the Course Coordinator/Coordinator of ^(Name of subject) _____, ^(Name of the Dept.) _____ **Sambalpur University, Jyoti Vihar-768019, Sambalpur (ODISHA) so as to reach on or before 30.08.2026.**

- Two recent passport size colour photographs of the candidate duly attested by a Gazetted Officer.
- Attested copies of the Mark sheets and Certificates of all examinations starting from H.S.C for determining eligibility. In case of students who have appeared the +3 final semester examination and the result is awaited, they may submit the certificate and mark sheet of +3 Examination on the day of the Entrance Test, failing which their case will not be considered for admission.
- e-Receipt of Rs.750/- in original towards payment of processing fee.
- An attested copy of the certificate from CDMO regarding his/her disability for 40% or more (in case of person with Disabilities).
- An attested copy of the Caste Certificate obtained from a Revenue Officer not below the rank of a Deputy Collector or MLA or MP or DWO, in absence of which the candidate will not be eligible to get concession allowed under reserved categories.
- The undertaking form(s) should be duly filled in and signed by the applicant and his/her father or natural guardian.

The envelope containing the above documents and the print out of the application form complete in all respect must be superscribed “Application for Admission in (Subject)

NOTES:

- 1. Application incomplete in any manner shall be rejected.**

3. DATE LINE & TIME LINE FOR ADMISSION

Online filling up of application form shall begin	From 18.08.2026 (10:00 AM onwards)
The last date of submission of application online	27.08.2026 (till 5:00 PM)
Last Date of submission of hard copy of the application along with the required documents	30.08.2026
1 st Phase Admission on the basis of merit will be completed	04.09.2026
2 nd Advertisement for filling of SC/ST vacancies, if any	04.09.2026
2 nd Phase Admission on the basis of merit will be completed	10.09.2026
Final Advertisement for filling of SC/ST vacancies, if any	10.09.2026
Admission process to be completed on	18.09.2026

Note: The concerned Course Coordinator are requested to collect User ID and Password along with URL for e-admission from the Director, e-Governance Nodal Centre, Sambalpur University.

4. ELIGIBILITY CRITERIA FOR ADMISSION

The eligibility criteria for admission into various Post Graduate Courses – 2026 are as follows:

A. Integrated B.Sc-M.Sc. Biotechnology:

Candidate shall have passed 10+2 Examination with Physics, Chemistry, Biology or Botany/Zoology as subjects with a minimum of 50% marks or equivalent grade in aggregate (45% marks for candidate belongs to SC/ST category or equivalent grade in aggregate).

Selection criteria: Based on percentage of marks at 10+2 examination

B. P.G. Diploma in Forensic Science and Criminology:

1. A Bachelor's degree (3 year/4-year) with a minimum aggregate of 45% in any discipline from a recognized university. Preference will be given to graduate in Science, Anthropology, Forensic Science, Medicine, Law, Psychology or related fields.
2. Final year undergraduate student may apply provisionally, provided they submit proof of publication of result before the commencement of course.
3. Professionals from police services, paramilitary forces, forensic laboratories, legal and investigative agencies and other relevant sectors are also encouraged to apply.

Selection criteria: Based on career marking

- C. P.G. Diploma in Environmental Impact Assessment:**
1. Bachelor degree in science from any recognized university with 55% marks in aggregate.
 2. B.Tech/B.E degree from any recognized university with 55% marks in aggregate.
 3. Professionals having experience in industry in developmental project will be given weightage.

Selection criteria: Based on career marking

5. RESERVATION POLICY FOR INTEGRATED B.Sc-M.Sc AND P.G. DIPLOMA PROGRAMMES

The reservation policy adopted for admission into Integrated B.Sc-M.Sc and P.G. Diploma courses, Sambalpur University are as follows:

- (i) 22.5% and 16.25% of seats in each course are reserved for candidates belonging to Scheduled Tribes and Scheduled Castes, respectively. The reserved seats are not interchangeable between SCs and STs.
- (ii) SC/ST applicants selected for admission on their merit shall not be counted against reserved seats.
- (iii) 11.25% of the sanctioned seats shall be reserved for applicants belonging to SEBC Category students vide Govt. of Odisha OM No.25474, Dated: 19.05.2025.
N.B: Applicants belonging to SEBC Category are advised to obtain SEBC certificate from competent authority for availing SEBC reservation benefits at time of admission.
- (iv) However, any modification made by the government in the reservation policy will be followed during admission.

- (v) Persons with disabilities (PWD) - 5% of sanctioned seat shall be reserved for PWD students with extent of disability not below 40% (blindness and low vision, hard of hearing, locomotor disability including cerebral palsy, leprosy cured, dwarfism, acid attack victims and muscular dystrophy, autism, intellectual disability, specific learning disability and mental illness).
- (vi) Ex-Serviceman (ESM), Serving Defence Personnel (SDP), Children of Martyrs (CoM) – 1% of the sanctioned seats shall be reserved for Self / Children / Wife / Husband of Ex-Serviceman, Serving Defence Personnel & the Children of Martyrs.
- (vii) If the SC/ST seats are lying vacant, it will not be filled up by the UR category students and the P.G. Council Office will re-advertise two times to fill up the vacant seats.

Concessions for the wards of Kashmiri migrants for admission shall be allowed as per the directive of the MHRD, Govt. of India.

6. SELECTION PROCEDURE

- (A) Admission to the candidates into Integrated B.Sc-M.Sc and P.G. Diploma courses will be offered strictly as per Merit List prepared by the respective Departments of Sambalpur University for the courses with applicable reservation policy and available intake capacity.
- (B) The list of selected candidates for admission will be uploaded in the University website <http://www.suniv.ac.in>. They will also be informed through their registered email IDs. Hence, they are advised to visit the University website and check their email regularly after publication of the merit list(s).
- (C) Intimation to the selected candidates will be issued by the Course Coordinator / Coordinator of the concerned Department through the candidates' registered email IDs.

7. SUBMISSION OF ADMISSION DOCUMENTS

The candidates selected for admission shall have to submit the following documents by Registered Post/Speed Post/In person to the respective Course Coordinator / Coordinator of the P.G. Departments for admission.

- i. Print out of the Online Admission form submitted, duly signed by the candidate.
- ii. College Leaving Certificate in original from the Institution last attended.
- iii. Migration Certificate in original for candidate from other University.
- iv. Two attested passport size colour photographs.
- v. Conduct Certificate in original from the Institution last attended.
- vi. One set of photocopies of Mark Sheet/Certificates starting from H.S.C.E. to last qualifying examination self attested by the candidate.
- vii. (In case of +3 Examinations, Mark sheet of First Examination and Final Examination are to be submitted separately, if detailed marks are not provided in the final mark sheet).
- viii. Original Income Certificate (In case of female candidates claiming concession in tuition fee).
- ix. Required fees specified in the Intimation Letter.
- x. Application in the prescribed form for seeking admission into hostel.
- xi. Caste Certificate for Reserved Categories.
- xii. PH Certificate for PH Candidates.

8. ADMISSION AND COURSE FEES

SL.NO.	SUBJECT NAME	ADMISSION FEES (to be deposited in the P.G. Council Office through SB Collect)			COURSE FEES (to be deposited in the respective Department) (PER SEMESTER)	TOTAL COURSE FEE
		GENERAL STUDENTS	GENERAL GIRLS Whose parents do not pay income tax	SC/ST Students		
	Integrated B,Sc-M.Sc Biotechnology	Rs. 8601.00	Rs. 8523.00	Rs. 8445.00	Rs. 21532.00	Rs. 2,15,320.00
	P.G. Diploma in Forensic Science and Criminology	Rs. 4500.00	Rs. 4500.00	Rs. 4500.00	Rs. 21000.00	Rs.42000.00
	P.G. Diploma in Environmental Impact Assessment	Rs. 4500.00	Rs. 4500.00	Rs. 4500.00	Rs. 28500.00	Rs. 57000.00

Candidates seeking admission to Hostel are required to deposit the seat rent of Rs.180/- in the P.G. Council Office in addition to the fees to be deposited in the Hostel as provided in the Hostel Admission Rules and Related Matters Section of this Prospectus. This will be intimated after selection to the Hostel.

NB:

- (i) The students who are migrated from other Universities are required to pay **Rs.225/-** in addition to other usual fees towards their Registration, Enrolment and Recognition fees.
- (ii) The students will pay the requisite examination fee and fill up the registration form online.
- (iii) Departments conducting field trip or study tour as a part of their curriculum shall bear the expenditures out of contributions levied on students, and the appropriate fees shall be collected from the students as decided by the Teachers Council of the respective Department at the time of admission and / or renewal of admission.
- (iii) Fees once deposited shall not be refunded.

9. GENERAL INSTRUCTIONS

(i) Classes for different courses will commence as per the Academic Calendar notified from the office of the Chairman, P.G. Council at the start of every session. The Academic schedule published by the Higher Education Department, Govt. of Odisha from time to time is also followed.

(ii) A candidate shall be required to attend 75% of lectures, tutorials and practical classes offered during the year. Condoning of attendance may be granted by the Syndicate only to the extent of 15% in exceptional cases. When a candidate has been deputed by College/University to represent the College/University/State for any activity, the lectures delivered during his/her absence, shall not be counted towards the calculation of percentage of attendance, provided the Course Coordinator / Coordinator certifies to that effect.

(iii) P.G. Examinations will ordinarily be held as per the University Act, Statutes and Regulations.

10. PENALTY & PUNISHMENT FOR RAGGING

(i) As per Supreme Court order ragging in any form is a cognizable offence and should be strictly prohibited. As per UGC guidelines 6.1 (d&e) of the regulation (F-1 16/2007 (CPP-II/dated 17 June 2009) or any revised Guidelines circulated, students who are found ragging other students shall be liable to punishment. If any incident of ragging comes to the notice of the authority the accused student will be given an opportunity to explain, and if his/her explanation is not satisfactory, the authority will punish the student as per the punishment cited here under:

- a) Rustication from the university and / or hostel
- b) Embossment on mark sheets, degree certificate etc. Stating that he/she indulge in ragging
- c) Penalty and imprisonment of one year
- d) Fine up to Rs.2.5 lakh

(ii) While admitting the students each Course Coordinator / Coordinator shall ensure the submission of an undertaking in the format prescribed in the admission application form signed by both the candidate and his/her parents (or legal guardian).

11. GENERAL DISCIPLINE

- (i) The students are expected to maintain discipline and proper atmosphere of study in the university campus.
- (ii) The following acts of indiscipline are strictly prohibited:
 - (a) Any act of preventing the teaching and non-teaching staff of the university from discharging their normal duties.
 - (b) Any act of stopping the university vehicles from plying and thereby affecting the functioning of university system.
 - (c) Any act of lockout of the university gate, university office, university P.G. Departments, Library and other such units of the university system.

- (d) Any act of assembling in a meeting or going in a procession inside the university campus without prior notice to the authority or without availing the usual channels of grievance redressal.
- (e) Any other agitational activity that will affect the day-to-day running of the university system.
- (f) Sexual harassment of any kind.
- (g) Sexist or Casteist remark of any kind.

12. INTERPRETATION

For any dispute in interpretation in respect of the provisions of this Prospectus, the decision of the University shall be treated as final.

13. HOSTEL ADMISSION RULES AND RELATED MATTERS

- (i) Hostel accommodation shall be provided to students depending on availability of seats in the following hostels. However, as the Sambalpur University is not a residential university, it is not mandatory on the part of the university authorities to provide hostel accommodation to each and every intending student.
 - (a) Brahmaputra, Mahanadi, Bhagirathi, Golden Jubilee, Mahodadhi, Satadru and IB Gents Hostels (for Male students only).
 - (b) Narmada, Silver Jubilee, Pravabati Devi, Baitarani, Indrabati, Subarnarekha, Brahmani Ladies Hostels and Rushikulya Ladies Hostel (for Female students only).
 - (c) The selection for hostel admission will be made on the basis of the Merit List prepared by the University.
 - (d) The Regular students will be given first preference in Hostel Admission and if any seats are left will be given to the Self-financing students.
- (ii) **RESERVATION**
Reservation in various Hostels for SC, ST and SEBC candidates is as per Rules, i.e., SC-16.25% , ST-22.5% and SEBC-11.25%
- (iii) **HOSTEL RENT/FEE**

(a) SEAT RENT

- | | |
|---------------------------|--------------------|
| (i) Single Seated Room | Rs.300/- per annum |
| (ii) Multiple Seated Room | Rs.180/- per annum |

(b) FEES TO BE DEPOSITED IN THE HOSTEL

- | | |
|--|---------------------|
| (i) Establishment fee | Rs.2100/- per annum |
| (ii) Cultural fee | Rs.500/- per annum |
| (This may increase if a hostel so decides) | |
| (iii) Hostel Caution Money | Rs.200/- |
| (iv) Utility Charges | Rs.700/- per annum |
| (v) Mess charges to be decided by the Hostels. | |

(iv) ADMISSION

- (a) Students selected for taking admission into the Hostels shall have to submit two recent passport size coloured photographs in the prescribed form available in the P.G. Departments duly forwarded by the Course Coordinator / Coordinator.
- (b) The selected boarders shall have to take admission through the P.G. Council Office by paying the above fees as applicable for the session through State Bank Collect.
- (c) On submission of the receipt obtained against the Hostel Seat Rent at the respective hostel, the Superintendent shall collect the other prescribed charges of Hostel and allot seat/room in the Hostel. The boarder shall be provided with furniture and other materials for his/her seat/room for the hostel from the resources available.

The charges are subject to change from time to time. A portion of the Hostel and Mess caution money will be deducted at the time of refund. The amount to be deducted shall be decided by the Hostel Residence Committee (HRC). If the caution money is not claimed within 3 years from the date of leaving the hostel, the claim for the said amount shall automatically stand forfeited.

If the students of Third Semester or 2nd Year do not deposit their annual fees like establishment, cultural etc. in the hostel office by the end of August, a late fine @ Rs.5/- per day shall be levied maximum up to one month. Otherwise allotment for admission shall be cancelled.

- (d) Research Scholars on completion of their tenure of Fellowship may be allowed to stay in the hostel for one month only on payment of usual charges.
- (e) **MESS:** The boarder shall have to be guided by the Mess Rules to be framed by each hostel.
- (f) **DISCIPLINE:** Boarders are expected to maintain discipline and proper atmosphere of studies in the hostels.

The following acts of indiscipline are strictly prohibited:

- All kinds of shouting, violence, knocking or /and any other act of undesirable behavior that is likely to cause disturbance or annoyance to others.
- Ragging of all kinds in the hostels or in the University Departments and within or outside the Campus.
- Any form of playing music and video system inside the room or the hostel premises causing annoyance and disturbance to others.
- Maltreating or abusing the hostel employees, mess canteen staff and others.
- Any meeting not relating to hostel affairs held on the hostel premises without prior permission.
- Keeping fire arms, weapons and intoxicants of any kind in the hostels.
- Cooking in the room of the hostels.
- The use of electric heaters, immersion heater, radio, TV and other similar electrical appliances in the room.
- Keeping the light and fan on when boarders are not inside the rooms.
- Damaging, misusing and stealing of any hostel property or stealing others belongings.

- Entertaining female visitor into the room of the boarders in the boy's hostels and male visitor into the rooms of the women hostels.
- Boarders staying outside overnight without permission of the competent authority.
- Overstaying in Hostels by the boarders without permission of competent authority.
- Entertaining guest/outside in the hostel without written permission of the respective Hostel Superintendent.
- Leaving Jyoti Vihar without intimating the hostel authority in writing and without taking prior permission.
- Consumption of alcohol and / or any other intoxicant by a boarder.
- Sexual harassment of any kind.
- Sexist or Casteist remark of any kind.
- Non-adherence to Government Guidelines and SOP of the university issued from time to time.
- The student boarders will not be doing any problems in the University or having any affiliation with any political party. If found will be expelled from the Hostel.

14. FINAL CLEARANCE

- (i) After the completion of theory and practical examinations the boarders shall have to handover the furniture and other materials issued to him/her along with the room key with the hostel authorities within a week.
- (ii) The boarder can then claim a final clearance certificate in the prescribed format from the hostel office and submit the same to the respective Course Coordinator / Coordinator.
- (iii) There shall be a Hostel Residence Committee (HRC) with Warden, P.G Hostels as the Chairman and all Superintendents and Assistant Superintendents as its members. The Hostel Residence Committee shall look into general administration of the Hostels.

15. COURSE STRUCTURE

A. Integrated B.Sc-M.Sc Biotechnology (5 Years, 10 Semesters)

DEPARTMENT OF BIOTECHNOLOGY AND BIOINFORMATICS

SPECIAL FEATURES OF THE COURSE AND HOST DEPARTMENT:

The Department of Biotechnology and Bioinformatics, Sambalpur University, offers a 05 years Integrated B.Sc-M.Sc Biotechnology, the most exciting and fast-growing fields of science, designed to nurture innovation, research aptitude, and professional excellence in the rapidly evolving field of biotechnology. The course structure blends strong theoretical grounding with extensive hands-on training in modern laboratories, equipping students with real, job-ready skills from day one. As the course progresses, students explore cutting-edge areas such as plant, animal,

pharmaceutical, medical, industrial, microbial, and environmental biotechnology, along with genomics, proteomics, bioinformatics, drug discovery, and systems biology, that are shaping the future of healthcare, pharmaceuticals, agriculture, and the environment. The department has a strong research culture, supported by qualified faculty, modern laboratory facilities, computational resources, and multidisciplinary research programs. The Centre of Excellence in Natural Products and Therapeutics offers a unique opportunity to engage in advanced research on drug discovery and therapeutic development, right from the undergraduate years. The department also promotes innovation, entrepreneurship, technology development, and collaboration with academic institutions and industries. Located in Western Odisha, the department provides opportunities to address region-specific challenges related to biodiversity, natural resources, environmental pollution, food, health, and microbial biotechnology, while maintaining a broader national and global research perspective. Overall, the department offers a vibrant environment for quality education, skill development, interdisciplinary research, innovation, and career development in biotechnology and bioinformatics.

Programme Educational Objectives (PEOs)

PEO 1 – Fundamental and Advanced Biotechnology Knowledge

Graduates will develop strong foundational, theoretical and advanced knowledge in molecular biology, genetics, microbiology, cell biology, biochemistry, physiology, bioinformatics and biotechnology and will apply this knowledge to biological and biotechnological problems.

PEO 2 – Technical and Research Competence

Graduates will acquire competence in modern biotechnology techniques, laboratory methods, computational tools, omics technologies, molecular diagnostics, genetic engineering, cell culture, bioprocessing and other contemporary biotechnology approaches for research and development.

PEO 3 – Innovation and Problem Solving

Graduates will be able to identify biological and technological problems, formulate hypotheses, design experiments, analyse and interpret data, and develop innovative and sustainable solutions using multidisciplinary approaches.

PEO 4 – Professional, Industrial and Entrepreneurial Development

Graduates will be prepared for careers in biotechnology research, pharmaceuticals, agriculture, healthcare, food, environmental biotechnology, bioinformatics, bioprocessing and related industries with an understanding of entrepreneurship, intellectual property, quality systems and regulatory requirements.

PEO 5 – Ethical, Sustainable and Lifelong Learning

Graduates will demonstrate scientific integrity, ethical and responsible conduct, biosafety awareness, environmental responsibility, effective communication and commitment to lifelong learning and professional development.

PROGRAMME OUTCOMES (POs)**PO1 – Biotechnology Knowledge**

Demonstrate comprehensive knowledge of biological sciences and biotechnology, including molecular biology, genetics, microbiology, biochemistry, cell biology, physiology and advanced biotechnology.

PO2 – Problem Analysis

Identify, formulate and analyze biological and biotechnological problems using scientific principles, appropriate evidence and multidisciplinary approaches.

PO3 – Experimental Design and Development

Design experiments, laboratory investigations and computational studies to address biological and biotechnological questions using appropriate controls, methodologies and analytical strategies.

PO4 – Modern Biotechnology Tools

Apply recombinant DNA technology, cell culture, molecular diagnostics, NGS, genomics, proteomics, bioinformatics, computational biology, genome editing, bioprocessing and other modern biotechnology techniques.

PO5 – Data Analysis and Interpretation

Use statistical, computational and bioinformatics tools to analyze, visualize, interpret and communicate biological data from experimental and omics-based studies.

PO6 – Research Competence

Conduct literature reviews, formulate hypotheses, develop research methodologies, interpret research findings and contribute to scientific research and innovation.

PO7 – Innovation and Design

Develop innovative biotechnology-based approaches, products, processes or solutions in areas such as healthcare, agriculture, industry, food and environmental biotechnology.

PO8 – Industrial and Professional Competence

Apply principles of bioprocess engineering, GLP, GMP, quality assurance, quality control, regulatory affairs, technology transfer and biotechnology entrepreneurship in professional settings.

PO9 – Communication Skills

Communicate scientific information effectively through scientific writing, presentations, seminars, reports, posters, research papers and professional discussions.

PO10 – Ethics, Biosafety and Responsible Practice

Apply principles of research ethics, intellectual property rights, biosafety, biosecurity, environmental protection, academic integrity and responsible conduct of biotechnology research.

PO11 – Sustainability and Social Responsibility

Evaluate the environmental, social, economic and ethical implications of biotechnology and develop sustainable solutions for societal and industrial challenges.

PO12 – Lifelong Learning and Professional Development

Demonstrate the ability to independently acquire new knowledge, adapt to emerging technologies and pursue higher education, research, entrepreneurship and professional development.

Courses Outcomes (COs)**CO1 – Knowledge:**

Demonstrate comprehensive understanding of the fundamental principles, concepts, mechanisms and applications related to the subject.

CO2 – Application:

Apply relevant biological, biotechnological, experimental, analytical and computational concepts to understand and address biotechnology-related problems.

CO3 – Analysis and Interpretation:

Analyse, interpret and evaluate scientific information, experimental results, biological data and current developments using appropriate methods and tools.

CO4 – Research and Professional Skills:

Apply acquired knowledge and skills to research, innovation and biotechnology applications while demonstrating scientific communication, ethical conduct, biosafety and responsible professional practice.

Employment Opportunity:

Graduates of the 5-year Integrated B.Sc-M.Sc Biotechnology have strong employment prospects in India and abroad, with opportunities in pharmaceutical R&D, clinical research, bioinformatics, agriculture, healthcare, and regulatory affairs.

A brief snapshot on the career avenues after the completion of integrated B.Sc-M.Sc Biotechnology:

Area	Possible Career
Research	Research Associate / Scientist
Pharmaceuticals	Biotech/Pharma Researcher
Clinical Research	Clinical Research Associate
Diagnostics	Molecular Diagnostics Analyst
Bioinformatics	Bioinformatics Analyst
Agriculture	Plant Biotechnology Professional
Food Industry	Food/Industrial Biotechnologist
Environment	Environmental Biotechnologist
Quality	QC/QA Analyst
Academia	Lecturer/Researcher
Higher Studies	Ph.D./ Research Program
Patenting of Biological products	Patent analyst

Course at a Glance

First Semester

Paper Code / Number	Paper Title	Credit Hours	Mark Distribution (ET+MT+HA)	Maximum Marks
IMB-101	Cell Biology	4	80+10+10	100
IMB-102	Biomolecules	4	80+10+10	100
IMB-103	Microbiology	4	80+10+10	100
IMB-104	Plant Taxonomy and Diversity	4	80+10+10	100
IMB-105	Elementary Mathematics	2	80+10+10	100
IMB-106	Elementary Chemistry	2	80+10+10	100
IMB-107	Practical I	2	100	100
	Total	22		700

Second Semester

Paper Code / Number	Paper Title	Credit Hours	Mark Distribution (ET+MT+HA)	Maximum Marks
IMB-108	Genetics	4	80+10+10	100
IMB-109	Biochemistry and Metabolism	4	80+10+10	100
IMB-110	Microbial Genetics and Physiology	4	80+10+10	100
IMB-111	Animal Taxonomy and Diversity	4	80+10+10	100
IMB-112	Elementary Physics	2	80+10+10	100
IMB-113	Communicative English	2	80+10+10	100
IMB-114	Practical II	2	100	100
	Total	22		700

Third Semester

Paper Code / Number	Paper Title	Credit Hours	Mark Distribution (ET+MT+HA)	Maximum Marks
IMB-201	Molecular Biology - I	4	80+10+10	100
IMB-202	Plant Developmental Biology	4	80+10+10	100
IMB-203	Animal Developmental Biology	4	80+10+10	100
IMB-204	Biostatistics and Probability	4	80+10+10	100
IMB-205	Environmental Science and Disaster Management	2	80+10+10	100
IMB-206	Fundamentals of Computers	2	80+10+10	100
IMB-207	Practical III	2	100	100
	Total	22		700

Fourth Semester

Paper Code / Number	Paper Title	Credit Hours	Mark Distribution (ET+MT+HA)	Maximum Marks
IMB-208	Molecular Biology - II	4	80+10+10	100
IMB-209	Plant Physiology	4	80+10+10	100
IMB-210	Human Physiology	4	80+10+10	100
IMB-211	Bioanalytical Techniques	4	80+10+10	100
IMB-212	Artificial Intelligence in Biology	2	80+10+10	100
IMB-213	IPRs, Biosafety and Bioethics	2	80+10+10	100
IMB-214	Practical IV	2	100	100
	Total	22		700

Fifth Semester

Paper Code / Number	Paper Title	Credit Hours	Mark Distribution (ET+MT+HA)	Maximum Marks
IMB-301	Immunology	4	80+10+10	100
IMB-302	Recombinant DNA Technology	4	80+10+10	100
IMB-303	Cell Culture Techniques	4	80+10+10	100
IMB-304	Bioprocess Technology	4	80+10+10	100
IMB-305	Nanobiotechnology	2	80+10+10	100
IMB-306	Nutraceuticals and Functional Foods	2	80+10+10	100
IMB-307	Practical V	2	100	100
	Total	22		700

Sixth Semester

Paper Code / Number	Paper Title	Credit Hours	Mark Distribution (ET+MT+HA)	Maximum Marks
IMB-308	Genomics and Proteomics	4	80+10+10	100
IMB-309	Plant Biotechnology	4	80+10+10	100
IMB-310	Animal Biotechnology	4	80+10+10	100
IMB-311	Industrial Biotechnology	4	80+10+10	100
IMB-312	Pharmaceutical Biotechnology	2	80+10+10	100
IMB-313	Bioentrepreneurship	2	80+10+10	100
IMB-314	Practical VI	2	100	100
	Total	22		700

Seventh Semester

Paper Code / Number	Paper Title	Credit Hours	Mark Distribution (ET+MT+HA)	Maximum Marks
IMB-401	NGS and Data Analysis	4	80+10+10	100
IMB-402	Ecology and Behavioural Biology	4	80+10+10	100
IMB-403	Molecular Diagnostics	4	80+10+10	100
IMB-404	Agricultural Biotechnology	4	80+10+10	100
IMB-405	Medical Biotechnology	2	80+10+10	100
IMB-406	Biological Databases	2	80+10+10	100
IMB-407	Practical VII	2	100	100
	Total	22		700

Eight Semester

Paper Code / Number	Paper Title	Credit Hours	Mark Distribution (ET+MT+HA)	Maximum Marks
IMB-408	Computational Biology	4	80+10+10	100
IMB-409	Molecular Modeling and Drug Design	4	80+10+10	100
IMB-410	Biomaterials and Tissue Engineering	4	80+10+10	100
IMB-411	Environmental Biotechnology	4	80+10+10	100
IMB-412	Stem Cell and Regenerative Medicine	2	80+10+10	100
IMB-413	Natural Products and Therapeutics	2	80+10+10	100
IMB-414	Practical VIII	2	100	100
	Total	22		700

Ninth Semester

Paper Code / Number	Paper Title	Credit Hours	Mark Distribution (ET+MT+HA)	Maximum Marks
IMB-501	System and Synthetic Biology	4	80+10+10	100
IMB-502	Food Biotechnology	4	80+10+10	100
IMB-503	Regulatory Affairs and Quality Assurance	3	80+10+10	100
IMB-504	A. Vaccine Technology B. Cancer Biology C. Advanced Tissue Engineering	4	80+10+10	100
IMB-505	MOOCS	3	75+25	100
IMB-506	Research Methodology	2	80+10+10	100
IMB-507	Practical IX	2	100	100
	Total	22		700

Tenth Semester

Paper Code / Number	Paper Title	Credit Hours	Mark Distribution (ET+MT+HA)	Maximum Marks
IMB-508	Seminar	2	100	100
IMB-509	Dissertation	20	100	100
	Total	22		200
	Grand Total	220		6500

Total Program Credits: 22+22+22+22+22+22+22+22+22+22 = 220

ET: End Term Examination, MT: Mid Term Examination, HA: Home Assignment

B. P.G. Diploma in Forensic Science and Criminology

Department of Anthropology

SPECIAL FEATURES OF THE COURSE AND HOST DEPARTMENT:

The P.G. Diploma in Forensic Science and Criminology, offered on a self-financing basis by the Department of Anthropology, Sambalpur University, is an interdisciplinary programme designed to provide students with theoretical knowledge and practical skills in forensic science, criminology, criminal investigation, and related anthropological applications. The course integrates areas such as forensic anthropology, human identification, forensic biology, crime-scene investigation, criminology, forensic psychology, toxicology, fingerprint analysis, questioned documents, and other scientific approaches to criminal investigation. The programme emphasizes practical training, laboratory-based learning, case analysis, field exposure, and application of scientific techniques for the identification, examination, and interpretation of forensic evidence. The Department of Anthropology provides an appropriate academic environment for the programme through its expertise in human biology, physical anthropology, population studies, and applied anthropological research. The interdisciplinary nature of the department facilitates integration of anthropological, biological, social, and scientific approaches to understanding crime and human identification. The course is particularly relevant for developing skilled human resources for forensic laboratories, law-enforcement agencies, investigation services, research organizations, and other sectors associated with forensic science and criminology. Overall, the programme provides a strong foundation in scientific crime investigation, forensic evidence analysis, human identification, and criminological understanding, while promoting practical skills, research aptitude, and professional competency.

First Semester

Paper Code / Number	Paper Title	Credit Hours	Mark Distribution (Ext+Int)	Maximum Marks
DFSC-101	Fundamentals of Forensic Science and Crime	4	80+20	100
DFSC-102	Fingerprint Science	4	80+20	100
DFSC-103	Practical in Fingerprint Science	4	100	100
	Total	12		300

Second Semester

Paper Code / Number	Paper Title	Credit Hours	Mark Distribution (Ext+Int)	Maximum Marks
DFSC-201	Criminology and Criminal Law	4	80+20	100
DFSC-202	Crime Scene Management	4	80+20	100
DFSC-203	Practical in Crime Scene Investigation and Report Writing	4	100	100
	Total	12		300

C. Diploma in on Environmental Impact Assessment**P.G.DEPARTMENT OF ENVIRONMENTAL SCIENCES****SPECIAL FEATURES OF THE COURSE AND HOST DEPARTMENT:**

The Diploma in on Environmental Impact Assessment is first of its kind in the state and one of the few in the country and has successfully entered into the fifteenth year of its existence. It is a four semester UGC approved degree and Sambalpur University approved course. It has course work and research project component. It is a regular course and keeping in view of its usefulness to serving employees the teaching is imparted on all days (except Sunday) during afternoon / evening hours and from 10 to 4 pm on Sunday. The course structure includes advanced modules in Environmental Science and Engineering and has been designed at par with the other premier institutes of the country and keeping the employment opportunity of the students in view. The students of M.Tech. Programme after successful completion have got employment in Vedanta Aluminium, NALCO, SPCBs, HINDALCO, OPGC, NTPC, CPCB, OMC etc.

COURSE AT A GLANCE FOR BATCH -2026-2027							
Programme:			CERTIFICATE COURSE IN EIA (Two Semester Programme)				
Exam	Batch	Paper Code	Paper Title	Type of Paper	Credit Hour	Mark Distribution	Maximum Marks
First Semester December-2026	2026-27	CEIA-811	Concept of EIA	Theory	4	60+40	100
		CEIA-812	Legal Policy And Regulatory Framework	Theory	4	60+40	100
		CEIA-813	Preparation of Eia Report	Theory	4	60+40	100
Second Semester April-2027	2026-27	CEIA - 821	Environmental Impact Statements And Risk Assessment	Theory	4	60+40	100
		CEIA - 822	Dissertation/Term Paper Evaluated by the Experts	Training	8	50+50	100
TOTAL					24	500	500

DON'T 'RAG'
ALSO
DON'T BE A
MUTE WITNESS TO 'RAGGING'

What is Ragging?

Any act resulting in :

- * Mental/Physical/Sexual abuse
- * Verbal abuse
- * Indecent behaviour
- * Criminal intimidation/
Wrongful restraint
- * Undermining human dignity
- * Financial exploitation/
Extortion
- * Use of force

Each of the above is a criminal offence

A student indulging in ragging can be :

- * **Expelled from the institution**
- * **Banned from the mess/hostel**
- * **His/her scholarship can be withdrawn**
- * **Debarred from examinations**
- * **Denied admission to any institution**
- * **Prosecuted for criminal action**
- * **Institutions have been asked to file FIR with local police against those who RAG/ABET ragging.**

RAGGING IN ANY FORM IS PUNISHABLE