



INTRODUCTION

THE SAMBALPUR UNIVERSITY: A PEEP INTO THE PAST

The Sambalpur University Act was passed by the Orissa Legislature on 10th December, 1966 to fulfil the long cherished dream of the people of Western Orissa 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.

The territorial jurisdiction of the University covers 10 districts and part of Angul District of the state of Orissa namely Sambalpur, Sundargarh, Jharsuguda, Deogarh, Bargarh, Bolangir, Subarnapur, Nawapara, Kalahandi, Boudh and Athmallik Sub-Division of Angul District.

The University at Jyoti Vihar provides Post-Graduate education in Thirty-two subjects through Twenty-two Post-Graduate Departments. The University Post-Graduate Teaching Departments with their year of establishment in chronological order include;

- (1) Political Science & Public Administration 1968
- (2) Oriya 1968
- (3) Physics 1969
- (4) Chemistry 1969
- (5) Mathematics 1969
- (6) School of Life Sciences 1969
- (7) History 1969
- (8) English 1969
- (9) Economics 1971
- (10) Lib. & Inf. Science 1975
- (11) Statistics 1976
- (12) Home Science (Human Dev. & Family Studies) 1976
- (13) Sociology 1976/1991
- (14) Anthropology 1976/1991

- (15) Earth Sciences(Applied Geology) 1984
- (16) Law (LL.M) 1986
- (17) Business Administration 1989
- (18) Environmental Science 1989
- (19) Computer Science & Application (PGDCA)1989
- (20) Centre of Regional Art and Culture Studies (For Diploma in Sambalpuri Studies) 1997
- (21) Translation Studies 2009
- (22) School of Performing Arts (Dance & Drama) 2010
- (23) Hindi 2010

The University offers the following Self-financing Courses. The academic session for all Self-financing courses runs from 1st June to 31st May next under course credit semester system with continuous evaluation.

- (1) M.Sc. in Bio-Technology 2002
- (2) Executive M.B.A. 2004
- (3) P.G. Diploma in Development Journalism 2005
- (4) Master of Finance & Control(MFC) 2006
- (5) Master of Social Work 2007
- (6) M.Tech in Environmental Science and Engineering 2007
- (7) M.Sc. in Applied Chemistry 2008
- (8) M.Tech. in Food Science & Technology 2010
- (9) M.Sc. in Food Science & Nutrition 2011

Beginning 2010-11, the University has established an autonomous constituent unit called Sambalpur University Institute of Information Technology (SUIIT). The M.Sc. (Computer Science), M.Sc.(Bioinformatics), M.Tech. (Computer Science), M.Sc. (Electronics) and MCA programmes will be offered by this institute.

The University Post-Graduate Departments offer one-year study programme for M.Phil Degree, two year study programme for the Degrees of M.A/M.Sc/M.Tech/LL.M/Business Administration/M.Lib. & Info. Science, one year P.G. Diploma Courses in Computer Science & Application, Sambalpuri Studies, Translation



Studies and three-year course in Executive MBA.

The following School of Studies have been created from the session 2008-09.

(1) School of Bio-social Studies comprising Sociology, Anthropology & Home Science Departments.

(2) School of Mathematics, Statistics & Computer Science comprising Mathematics, Statistics & Computer Science Departments.

(3) School of Life Sciences comprising Life Science & Bio-Technology courses.

(4) School of Letters comprising Departments of English & Oriya.

(5) School of Physics comprising Physics & Nuclear Physics courses.

(6) School of Chemistry comprising Chemistry & Applied Chemistry courses.

(7) School of Social Science comprising Economics, History and Political Science & Public Administration Departments.

The P.G. Departments of Chemistry, Life Sciences, History, Economics, English, Environmental Science, Mathematics, Statistics and Physics have been conferred Autonomous Status by the University.

There are Eight Post-Graduate Hostels in the University Campus out of which three are Ladies Hostels and five 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, STD Telephone Booth, Computer with Internet facilities etc. The Central Canteen has been opened near the Hostel Campus for the benefit of students. Besides there are two Nationalized Banks, one ATM Counter, one Post-Office, one Health Centre, one Auditorium, one Police-Out Post, one Faculty House and one 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, Academic Staff College, Gymnasium, and Professor Bhubaneswar Behera Central Library are acting like the wheels for the University system and would carry the university speedily towards achieving the noble boon for which these are set up.

Each Post Graduate student shall have to opt one course floated by other Departments / Schools / Centres in their III Semester (V Trimester in case of MBA).

Join Hands to make your Campus Ragging Free



1. PROCEDURE FOR OBTAINING THE ADMISSION APPLICATION FORM

Admission application forms, can be obtained from **Chairman, P.G. Council (Admission Cell) Sambalpur University, Jyoti Vihar - 768019, Sambalpur (Orissa)** during office hours on working days in person on payment of Rs.450/- in cash at the Cash Counter. In order to obtain the form by Post a candidate shall make a payment of Rs.500/- by A/C payee Bank Draft drawn in favour of the Chairman, P.G. Council, Sambalpur University and payable at SBI, Jyoti-Vihar Branch (Code No.6672) alongwith an application on plain paper addressed to the **Chairman, P.G. Council, Sambalpur University, Jyoti Vihar-768019**. A self addressed envelope of size 13"X8" is to be enclosed alongwith the application. INDIAN POSTAL ORDER AND BANK DRAFT DRAWN ON ANY OTHER BANK WILL NOT BE ENTERTAINED. Candidates can also download the application form from the University website www.suniv.ac.in and while sending such downloaded application an account payee Bank Draft of Rs.450/- towards the cost of Application drawn in favour of Chairman, P.G. Council, Sambalpur University and payable at SBI, Jyoti-Vihar Branch (Code No.6672) shall be enclosed failing which the Application shall be rejected. **The last date of issue of application form for Self-financing Course is 08.06.2011 upto 12 Noon.**

2. Eligibility for Admission-

Honours Graduate in relevant or allied subject or 45% in aggregate for pass graduates. Specific eligibility conditions are reflected under each course later.

Candidates, who have appeared the qualifying examinations and the results there of are

awaited, are also eligible to apply. However, they have to submit the Provisional Certificate and Marksheet of the qualifying examination within ten days after publication of result of Sambalpur University, or on any date during the Entrance Test schedule i.e. from **22.06.2011 to 25.06.2011** whichever is later, otherwise their cases for selection shall not be considered.

3. PROCEDURE FOR SUBMISSION OF APPLICATION FOR ADMISSION

- (i) Completed application in all respect may be submitted/sent to the **Chairman, P.G. Council (Admission Cell), Sambalpur University, Jyoti-Vihar-768019, Sambalpur(Orissa)**. Incomplete application in any manner shall liable to be rejected. The applicant should check the following before submission / dispatch his /her application..
- (ii) The applicant must mention in Capital Letters at the top right hand corner on the front page of application whether he/she belongs to SC/ST/ Physically Handicapped or any other reserved category.
- (iii) The undertaking form(s) should be duly filled in and signed by the applicant and his/her father or natural guardian.
- (iv) The Index Card should bear the full postal address of the applicant written legibly on it, affixing requisite Postal Stamp.
- (v) Attested copies of the Mark sheets and Certificates of all examinations starting from H.S.C should be submitted for determining eligibility. Applicants for MBA course have to submit MAT Score, date of entrance test and the time limit of the Entrance Test validation date.



- (vii) Original Cash Receipt of Rs.450/- or Rs.500/- as the case may be in support of purchase of application form. In case of downloaded application A/C payee Bank Draft for Rs.450/- as mentioned in 1 above.
- (viii) In addition to (vii) each applicant must submit Entrance Test fee in the form of A/c payee Bank Draft or Banker's Cheque or Manager's Cheque for Rs.200/-(Rupees two hundred) only drawn in favour of the Chairman, P.G. Council, Sambalpur University and payable at State Bank of India, Jyoti Vihar Branch (Code No.6672).
- (ix) An attested copy of the Caste Certificate in respect of SC/ST candidates 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 to SC/ST candidates.
- (x) An attested copy of the certificate from CDMO regarding his/her disability for 50% or more (in case of Physically Handicapped Candidates).
- (xi) Attested copies of certificates obtained from competent authority must be submitted in case of candidates claiming concession towards reservation under any other reserved category.
- (xii) Two attested recent passport size coloured photographs of the candidate.
- (xiii) The envelope containing the application complete in all respect must be superscribed "Application for Admission in _____, Self-financing course, (Subject) Sambalpur University.
- (xiv) Two self-addressed stamped envelope of size 10"X4".
- (xv) In case of downloaded application, fee shall be Rs. 650.00 (Rupees six hundred fifty) only towards cost of application and entrance test fee to be paid by account payee Bankdraft or Banker's Cheque in favour of Chairman, P.G.Council payable at SBI, Jyoti Vihar Branch (Code No.6672).
- (xvi) **Last date for submission of application:** The application duly filled in and with all the required documents shall reach the Chairman, P.G. Council Admission Cell, Sambalpur University, Jyoti Vihar-768019 **on or before 08.06.2011 upto 12:30P.M.**

4. ENTRANCE EXAMINATION

Written Test for admission shall not be conducted where the number of applicants are less than the sanctioned strength. In that case only Viva-Voce shall be conducted.

PROGRAMME FOR ENTRANCE EXAMINATION - 2011

Date	9:00 A.M. to 11:00 A.M. (1 st sitting)	11:30 A.M. to 1:30 P.M. (2 nd sitting)
22/06/11 (Wednesday)	M.Tech. in Environmental Science & Engineering	P.G. Diploma in Development Journalism
23/06/11 (Thursday)	Master of Finance & Control	M.Sc. Biotechnology
24/06/11 (Friday)	M.Sc. in Food Science & Nutrition	Master of Social Work
25/06/11 (Saturday)	M.Tech. in Food Science & Technology	M.Sc. in Applied Chemistry

NB: The date and time for Viva-Voce Test will be indicated in the Admit Card.



5. SELECTION FOR ADMISSION:

Selection will be based on career (30 marks), written (60 marks) and Viva-Voce (10 marks) except Ex-MBA programme. For Ex-MBA programme specific criteria have been prescribed later under the course features. While calculating career mark, weightage shall be given to candidates for having secured Honours in the concerned subject only. Honours in other subjects shall be put at par with Pass weightage.

Formula for calculating career marks (out of 30) admission shall be as follows:

Degree	1st Dvn	2nd Dvn	3rd Dvn	
H.S.C.E.	6.0	4.5	3.0	
+2	9.0	7.0	5.0	
+3 (Hons)	13	10	-	Distn:-2
+3 (Pass)	7			Distn:-2

N.B. In cases where no division, marks or percentage of marks have been awarded, the division shall be determined on the basis of proportionate marking from the grades awarded for the purpose of career marking

6. INTIMATION

Intimation to the selected candidates will be sent by Registered Post / Speed Post and will be notified in Departmental Notice Boards.

- (v) Two attested passport size colour photographs
- (vi) Original Income Certificate (In respect of female candidates claiming concession in tuition fee).
- (vii) Original Caste Certificate for SC/ST candidates.
- (viii) Required fees specified in the Intimation Letter.

7. DOCUMENTS REQUIRED FOR ADMISSION

A. Admission to different Self-financing Course will be made by post and not in person. The selected candidates must send the following documents by Registered Post for admission to the respective Coordinators of the Self-financing Course.

B. No admission shall be made into any Self-financing Course beyond 16.08.2011.

8. ALLOTMENT OF SPECIAL PAPER:

The number of special papers to be offered by a P.G. Department shall be decided by the Teachers' Council of the concerned Department and notified by the Head of the Department before the allotment of special papers, preferably at the time of calling for application from students for such allotment. As far as possible, the number of special papers offered by a Department shall be equally divided among the applicants on the principle of preference and consolidated merit list basing on performance in the written test and viva-voce plus career mark, notwithstanding different categories of reservations.

- (i) College Leaving Certificate in original from the Institution last attended;
- (ii) Conduct Certificate in original from the Institution last attended;
- (iii) Original Mark Sheet/Certificates starting from H.S.C.E. to last qualifying examination.
(In case of +3 Examination, Mark sheet of First Examination and Final Examination are to be submitted separately, if detailed marks are not provided in the final mark sheet).
- (iv) Migration Certificate in original for candidate from other University.



9. RESERVATION

(i) Twelve and eight percent of seats in each course are reserved for candidates belonging to Scheduled Tribes and Scheduled Castes respectively. However, the unfilled seats required for ST candidates will be filled up by admitting SC candidates and vice-versa. No, admission will be made beyond the sanctioned strength in Self-financing Courses.

(ii) One seat in each department will be reserved for Physically Handicapped candidates. Such candidate is required to produce a certificate from the C.D.M.O. regarding his/her disability for 50% or above. On the basis of the certificate issued by the C.D.M.O. concerned admission under PH category may be considered by the respective Head of the Department / Course Coordinator.

10. REQUIREMENT OF ATTENDANCE

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

11. CONDUCT OF EXAMINATION

Examinations of Self-financing courses will ordinarily be held as per the University Act, Statutes and Regulations.

12. FEES AND SUBSCRIPTION

The following fee are payable at the time of admission in addition to the Course fee and other requisite fee prescribed for each Course.

(i) Tuition fee for Post-Graduate SF Courses in Humanities (per annum) Rs.144.00

(ii) Tuition fee for Post-Graduate SF Courses in Science (per annum) Rs.168.00
(iii) a. University Registration Rs. 50.00
b. Enrolment Fee Rs. 50.00
(For New entrants to Sambalpur University)

(iv) Recognition fee for students Rs. 25.00

who passed examination from other Universities recognized by the Academic Council of Sambalpur University as equivalent to corresponding examination of the University

(v) Library fee and registration Rs.100.00
(vi) Student Aid Fund Rs. 5.00
(vii) Magazine Fee Rs. 50.00
(viii) Games Fee(Athletic Club) Rs. 50.00
(ix) Medical Fee Rs. 5.00
(x) Cultural Society Fee Rs. 50.00
(xi) Science Society Fee Rs. 20.00
(Science Students only)

(xii) Common Cultural Fund Rs.10.00

(xiii) Students Welfare Fund Rs.10.00

(xiv) Students' Union Subscription Rs.50.00

(xv) D.S.A Fee (Only for Day Scholar Students) Rs.10.00

(xvi) Fee for Wall Magazine Rs. 5.00

(xvii) Fee for Pioneer Rs. 5.00

(xviii) Fee for Sports Rs.20.00

(xix) Fee for Horizon Rs. 5.00

(xx) Alumni Index Rs.100.00

(xxi) Admission Fee - Equal to One Month Tuition Fee (for new entrants to a course)

(xxii) Fee for Insurance(Students Safety Insurance Scheme approved by Syndicate) Rs.2.00

(xxiii) One time Bus Fee from each student Rs.75.00 at the time of admission

(xxiv) Advance Bus Fare for 6 months as Rs.900.00 first instalment for Day Scholar residing at Sambalpur and expected to come by University Bus



Note:

1. The Candidate can seek refund of proportionate amount of bus fare after becoming a boarder.
2. Bus fare will be realized in two instalments in a session,(i.e., July to December and January to June respectively)

(xxv) Energy charges for boarders for two years Rs.1800.00

(xxvi) Water Charges for boarders for two years Rs.240.00

(xxvii) N.C.C. Rs. 5.00

(xxviii) Red Cross Rs.10.00

(xxix) Social Service Rs.5.00

(xxx) One Time Caution Money Rs.1,000.00

(Refundable after completion of course) Scholarship, stipend, refund, etc. due to be paid to any bonafide student of the University will be paid by order cheque only. The students are therefore, advised to open one Saving Bank Account in the Bank functioning in the Campus of Jyoti-Vihar immediately after admission into any course of the University.

(xxxi) The following fees are to be collected from the candidates by the respective Course Coordinator of the Self-financing course at the time of admission.

(a) Laboratory deposit for each laboratory based Department Rs.100.00

(refundable at the end of the course less cost of breakage)

(b) Fee for Maintenance of Abstract of Attendance Rs. 2.00

(c) Fee for Identity Card Rs. 5.00

(d) Fee for Seminar Library Rs. 5.00

(e) Fee for Cultural Activities Rs. 20.00

(f) Candidates of all categories for admission to the Self-financing courses are to pay Development fee of Rs.2,500/- per semester

(g) 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.

(h) Candidates for admission to the Arts and Social Science Departments without laboratory are to pay Rs.1000/- and to science Departments and other Departments with laboratory are to pay Rs.1500/- as Infrastructure Development Fund fee.

(i) Student Seminar fee per semester (to be spent by the students) Rs.1000.00

(j) A student shall pay the following examination and examination related fees as prescribed in common guidelines of self-financing courses.

(a) Examination fee/Semester Rs.500/-

(b) Centre Charge/Semester Rs.100/-

(c) Late deposit of Examination fee within 15 days of last date of form fill up Rs.100/-

(d) Fee for issue of Grade Sheet after for each Semester Rs. 50/-

(e) Fee for issue of provisional certificate cum grade sheet Rs.100/-

(f) Re-addition Fee/Paper Rs. 50/-

(g) Examination fee for Repeat/Improvement per theory paper Rs.250/-

(h) Original diploma (after successful completion of 4th Semester exam.(as per University rule)

The autonomous Departments shall collect the fees from the students before each Semester examination. For non-autonomous Departments, the examination related fees shall be deposited by the students in the Central Office at the time of form fill up before each Semester examination.



13. HOSTEL ADMISSION RULES AND RELATED MATTERS

(i) Hostel accommodation may be provided to students of P.G Programme depending upon availability of seats in the following hostels.

(a) Brahmputra, Mahanadi, Bhagirathi and Satadru Hostels are for Gents Students

(b) Narmada, Silver Jubilee and Pravabati Devi Ladies Hostels and temporary M.Phil. Hostels are for female students only.

(ii) RESERVATION

Reservation in various Hostels for SC and ST candidates is as per Rules, i.e., SC-8% and ST-12%

(iii) ADMISSION

(a) Students seeking admission in to the Hostels shall have to apply with two passport size recent colour photographs in the prescribed form available in the P.G. Departments duly forwarded by the H.O.D. / Course Coordinator of Self-financing course. The HOD / Course Coordinator of Self-financing course will forward the merit list of the prospective boarders to the Warden as soon as the merit list of admission of students in the Department concerned is prepared.

(b) The students will get an Intimation letter from the Warden for admission in the Hostel wherever required.

(c) The date of admission in the Hostels during the session will be notified by the Warden.

(d) **The admission for the hostel is for one academic-session i.e., June to May only.**

(e) The selected boarders shall have to take admission through the P.G. Central Office by paying the following fee for the session at the Cash Counter, P.G. Central Office.

(f) (1) SEAT RENT(Except Mahodadhi)

(i) Single Seated Room Rs.168/- per annum

(ii) Multiple Seated Room Rs.120/- per annum

(2)SEAT RENT (Mahodadhi Hostel)

(i) Single Seated Room Rs.800/- per annum

(ii) Double Seated Room Rs.400/- per annum

These items and charges are subject to change from time to time. If any boarder can not take admission within the due time, the period of admission can be extended by the Warden, P.G. Hostels once without fine. A fine will be levied for subsequent extensions.

(g) On submission of the receipt of deposit of fee made in the P.G. Central Office in the respective hostel, the Superintendent shall collect the required prescribed charges of Hostel and allot seat/room in the Hostel. The boarder shall have to issue with furniture and other materials for his/her seat/room for the hostel with in the resources available.

The fees to be deposited in the hostel are as follows:

(i) Establishment fee Rs.600/- per annum

(ii) Cultural fee Rs.300/- per annum
(This may increase if a hostel so decides)

(iii) Hostel Caution Money - Rs.100/-

(iv) Hostel Security fee (non-refundable) Rs.200/- per annum.

(iv) Mess charges to be decided in the Hostels.

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 H.R.C. 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 upto one month otherwise allotment for admission shall be cancelled.

(h) Research Scholars on completion of their tenure of Fellowship may be allowed to continue in the hostel for one month only on payment of usual charges.

(i) **MESS:** The boarder shall have to be guided by the Mess Rules to be framed by each hostel.



- (j) **DISCIPLINE:** Boarders are expected to maintain discipline and proper atmosphere of studies in the hostels.
The following acts of indiscipline are strictly prohibited:
1. All kinds of shouting, violence, knocking or /and other act of undesirable movement or behaviour that is likely to cause disturbance or annoyance to others.
 2. Ragging of all kinds in the hostel or in the University Departments and within or outside the Campus.
 3. Any form of playing music and video system inside the room or the hostel premises causing annoyance and disturbance to others.
 4. Maltreating or abusing the hostel employees, mess canteen staff and others.
 5. Any meeting not relating to hostel affairs held in the hostel premises without prior permission.
 6. Keeping fire arms, weapons and intoxicants of any kind in the hostels.
 7. Cooking in the room of the hostels.
 8. The use of electric heaters, emersion heater, radio, TV and other similar electrical appliances in the room.
 9. Keeping the light and fan on when boarders are not inside the rooms.
 10. Damaging, misusing and stealing of any hostel property or stealing others belongings.
 11. Entertaining female visitor into the room of the boarders in the boys hostels and male visitor into the rooms of the women hostels.
 12. Boarders staying outside overnight without permission of the competent authority.
 13. Overstaying in Hostels by the boarders without permission of competent authority.
 14. Entertaining guest/outsideers in the hostel without written permission of the respective Hostel Superintendent.
 15. Leaving Jyoti Vihar without intimating the hostel authority in writing and without taking prior permission.
- (k) **FINAL CLEARANCE**
- (i) After the completion of theory and practical examinations the boarders shall have to return the furniture and other materials issued to him/her by the hostel and also the room key in the hostel office 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 H.O.D. / Course 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.
- 14. PENALTY & PUNISHMENT TO THE STUDENTS INDULGING IN RAGGING INSIDE THE UNIVERSITY / DEPARTMENT / HOSTEL PREMISES.**
- (i) As per Supreme Court order communicated to University by the University Grants Commission, New Delhi, ragging in any form is strictly prohibited. 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 would expel him/her from the institution as well as hostel if he/she is a boarder.
- While admitting the students each H.O.D./ Course Coordinator shall ensure the submission of an undertaking in th format prescribed in the admission application form signed by both the candidate and his parents (or legal guardian).
- 15. INTERPRETATION**
- For any interpretation in respect of the provisions of the Prospectus, the decision of the University shall be treated as final.



**ADDITIONAL INFORMATION FOR
ADMISSION TO
SELF – FINANCING COURSES IN
P.G. DEPARTMENTS
2011-12**



1. M.Sc. IN BIOTECHNOLOGY IN THE SCHOOL OF LIFE SCIENCES(AUTONOMOUS)

- 1. MINIMUM ELIGIBILITY:** Any Science graduate including Engineering & Medical or other Professional courses
- 2. SELECTION CRITERIA:** Career-30 marks, Written Test-60 marks & Viva voce 10 marks (Total-100 marks)

3. COURSE STRUCTURE:

Course	Course Title	Credit hours
FIRST SEMESTER		
BT-411	(A) Fundamentals of Physical Sciences	3 CH
(A or B)	(B) Fundamentals of Biological Sciences	
BT-412	Biochemistry	3 CH
BT -413	Biophysics and Biophysical Chemistry	3 CH
BT -414	Microbiology	3 CH
BT -415	Molecular Biology	3 CH
BT -416	Instrumentation and Techniques	3 CH
BT -417	Practical (Biochemistry and Instrumentation)	2 CH
BT -418	Practical (Microbiology)	2 CH
Semester Total Credit		22CH
Course	Course Title	Credit hours
SECOND SEMESTER		
BT -421	Cell and Developmental Biology	3 CH
BT -422	Immunology and Immunotechnology	3 CH
BT -423	Recombinant DNA Technology	3 CH
BT -424	Industrial Microbiology	3 CH
BT -425	Taxonomy, Biodiversity & Biostatistics	3 CH
BT -426	Inheritance Biology	3 CH
BT -427	Practical (Cell biology, Genetics and Biostatistics)	2 CH
BT -428	Practical (Immunology and Recombinant DNA Technology)	2 CH
Semester Total Credit		22CH

Course	Course Title	Credit hours
THIRD SEMESTER		
BT -531	Bioinformatics & Computer Applications	3 CH
BT -532	Bioprocess Engineering and Technology	3 CH
BT -533	Genomics, Proteomics and Metabolomics	3 CH
BT -534	Protein Engineering and Enzyme Technology	3 CH
BT -535	Medical and Pharmaceutical Biotechnology	3 CH
BT -536	(A) Plant Biotechnology	3 CH
(A or B or C)	(B) Animal Biotechnology	
	(C) Environmental Biotechnology	
BT -537	Practical (Bioprocess Engineering and Enzyme Technology)	2 CH
BT -538	Practical (Elective Papers and Bioinformatics)	2 CH
Semester Total Credit		22CH

Course	Course Title	Credit hours
FOURTH SEMESTER		
BT -541	Bioentrepreneurship and soft skill development	2 CH
BT -542	Seminar	2 CH
BT-543	Institutional & Industrial Study Tour and Viva	2 CH
BT -544	Project Work and Viva Voce	(15+ 3) CH
Semester Total Credit		24CH
TOTAL COURSE CREDIT		90 CH



4. COURSE FACULTY:

(A) Core Faculty:

Sl. No.	Name of the Teacher	Area of Specialization
1	Prof. T.V. Rao	Biochemistry & Enzyme Technology
2.	Prof. N. Behera	Microbiology & Microbial Technology
3.	Prof.(Mrs.) B. Biswal	Molecular Biology & Chloroplast Biotechnology
4	Dr. (Mrs.) B. Nayak	Cyanobacterial Technology
5.	Dr. E. Kariali	Stress Physiology and Agricultural Biotechnology
6.	Dr. J. Panigrahi (course Co-ordinator)	Molecular Biology, Plant Genome mapping, Genetic Engineering
7.	Dr. R.K. Behera	Biochemistry and Immunology
8.	Dr. S.P. Mishra	Forest Ecology and Plant Tissue Culture
9.	Dr.(Mrs.) S. Sahoo	Soil Biotechnology
10.	Dr. J. Rath	Animal Cell Culture & Immunotechnology
11.	Dr. A.K. Patel	Microbial Technology and Process Engineering
12.	Dr. S. Pattnaik	Microbiology and Pharmaceutical Biotechnology

(B) Guest Faculty:

Guest Faculties from other Universities, Research Institutes across India having expertise in different fields of Biotechnology are invited to impart quality teaching at par.

5. NUMBER OF SEATS: 16 (Sixteen)**6. FEE STRUCTURE:**

Course Fee: Rs. 25,000/- per semester (Besides the course fee, a candidate admitted to the programme shall pay other fees as prescribed in the prospectus at Clause. 12).

7. OTHER SPECIAL FEATURES OF THE COURSE AND THE HOST DEPARTMENT:**(a) Special Feature of the Course:**

Biotechnology in the present context is an interdisciplinary, applied and job oriented discipline. It caters to the ever increasing demand for skilled and trained manpower for industries, R &D institutes and for solving specific problems of a developing country like India. Being a front line course the syllabus of the course has designed to amalgamate various features of physical, chemical and biological sciences. The aim is to impart high standard teaching in molecular aspects of biological systems and to expose students to recent developments in the field of medicine and biology. The course is meant to confer the students a systematic understanding of biological processes from physical science as well as chemical sciences point of view. Further the course content allows the students to learn various laboratory techniques as per the requirement of biotech industries. This background of learning allows the students to be focused, interpretive and pragmatic to meet the challenges of science in 21st century.

(b) About the host Department:

The School of Life Sciences, Sambalpur University initiated teaching Biotechnology in 1989 as full length paper in M.Sc Life Sciences curriculum. It is being taught along with other core areas of biology for the last 21 years with existing faculty members and infrastructure facilities. During these years this school has trained some 400 students in basic biotechnology. Many of these students have utilized their training in biotechnology to enter into various research institutes in India and abroad, and are doing excellent research in various fields of biotechnology. Some of them have joined industries catering to Biotechnology. It has been made possible by the dedicated and talented faculty of the school who have been endeavouring to promote the subject. More than 100 biotechnology oriented research papers and several books has published from the school.

(c) Infrastructure facilities available in the department:

The department has state of the art laboratories for (i) Biochemistry, (ii) Molecular Biology and Genetic Engineering, (iii) Plant Biotechnology and Genetic Transformation, (iv) Microbiology and Immunology, (v) Bioinformatics, (vi) Cytogenetics, (vi) Ecology and Environmental biotechnology and (vii) Central Bioinstrumentation facilities.

(d) Major Equipments available in the department:

All the labs are well equipped with desired instruments and facilities. In addition to the central instrumentation facility possessed with sophisticated instruments viz. PCR Machine, Gradient Thermal cycler, Gel Documentation System, Bioreactors of various design, UV-Vis spectrophotometer, ELISA reader, DNA Sequencing system, Blotting apparatus, Vertical and Submarine Electrophoresis apparatus, Lyophilizer, Ultracentrifuge, Millipore Water Purification Systems, Sterizoomic Microscope, Phase contrast Microscope, Fluorescence Microscope, High Performance Liquid Chromatography, Gas Chromatography and Atomic Absorption Spectrophotometer, Infrared gas analyzer, Photosynthetic Efficiency Analyser. Further, this facility will be enriched with Gene gun, Electroporation system, Real time PCR machine, CO₂ Incubator, Animal Tissue culture lab, Transgenic house, NET house through DST-FIST programme.

measuring 28,000 sq.ft. The ground floor has state of the art laboratories. The department is supported by Electrical Engineers from the **Bioinformatics** lab is well aided with 10 Window/Linux based P-IV systems with various software including GCG-WISCONSIN package, MAPMAKER, MOE, Phylip, SPSS, RASMOL, PFD-TLB, NTSYS-Pc etc.



2. EXECUTIVE MBA PROGRAMME IN THE P.G . DEPARTMENT OF BUSINESS ADMINISTRATION

1. ELIGIBILITY CRITERIA:

“Any Graduate who has worked or is working after graduation for atleast two-years in a managerial/ supervisory cadre as is evident from the testimonials issued by his/her employer or the designated officer for the purpose in an organization of repute.

All Government and Semi Government organizations, autonomous bodies, Registered Societies and firms including corporate units in the private and public sector duly incorporated, private and public sector banks and financial institutions, colleges, universities and other research and educational institutions shall be considered as institutes of repute.

Entrepreneurs and self-employed persons with own ~SSIs, valid license, TIN, PAN etc. with annual sales turnover of Rs.50 lakhs or more and professionals, such as Doctors, Engineers, Chartered Accountants, Cost Accountants, Company Secretaries, Legal Practioners will also be considered for admission.

Candidates on job seeking admission to the programme will have to produce NOC from their respective organizations.

2. SELECTION CRITERIA:

Career:30 Written Test:30 Interview:10 Experience:30

EXPERIENCE:

4 marks shall be given for each completed year of experience subject to a maximum of 40 marks i.e 4 marks per year for a maximum of 10 years.

Distribution of Marks for Admission into Ex-MBA Course:

H.S.C.E.	1st Divn.-6	2nd Divn.-4.5	3rd Divn./Pass -3	
+2	1st Divn.-9	2nd Divn.-7	3rd Divn./Pass -5	
+3 (Hons)	1st Divn.-13	2nd Divn.-10	-	Distn:- 2
+3 (Pass)	-	-	Pass - 07	Distn:- 2

Marks Secured

Total Marks secured X100

Maximum Marks

75% or above

60% or above but less than 75%

45% or above but less than 60%

All other eligible candidates

Weight age

15

12

10

08



3. COURSE STRUCTURE:

1 st Semester		Marks
E-E-101	Management process and Organisation Behaviour	100
E-102	Human Resource Management	100
E-103	Financial Accounting for Managers	100
E-104	Quantitative Methods for Managers	100
E-105	Marketing Management	100

4 th Semester		Marks
E-401	Business Environment	100
E-402	Production Management	100
E-403	Three Elective Specialization Papers from Groups of E-403 to E-405	100
E-404		
E-405		

2 nd Semester		Marks
E-201	Managerial Economics	100
E-202	Financial Management	100
E-203	Strategic Cost & Management Accounting	100
E-204	Indian Ethos & Values	100
E-205	Management Science	50

5 th Semester		Marks
E-501	Business Policy	100
E-502	Business Legislation	100
E-503	Three Elective Specialization Papers from Groups of E-503 to E-505	100
E-504		
E-505		

3 rd Semester		Marks
E-301	Research Methodology	100
E-302	Computers for Management	100
E-303	Three Elective Specialization Papers from Groups of E-303 to E-305	100
E-304		
E-305		

6 th Semester		Marks
E-601	Management Information System	100
E-602	Strategic Management	100
E-603	Corporate Governance	100
E-604	Dissertation (Equivalent to two Papers)	200

4. SPECIALIZATION OFFERED

Floating of an area of specialization will be the exclusive prerogative of the department and the mere mentioning of the areas of specialization in the prospectus does not entitle a candidate the right to press for the opening of an area of specialization of his/her own choice.

ELECTIVE SPECIALISATION PAPERS: All Papers carry 100 Marks each.

Finance

- E-303FIN Security Analysis and Portfolio Management
- E-304FIN Project Planning and Appraisal Method
- E-305FIN Working Capital Management
- E403FIN Management Control System
- E-404FIN Corporate Taxation
- E-405FIN Corporate Restructuring
- E-503FIN Financial Derivatives
- E-504FIN international Accounting
- E-505FIN international Finance

Human Resource Management

- E-303 HRM Industrial Relation
- E-304 HRM Manpower Training and Development
- E-305 HRM Human Resource Development Strategies and System
- E-403 HRM Manpower Development for Technological Change
- E-404 HRM Compensation Management
- E-405 HRM Managing Interpersonal and Group Processes
- E-503 HRM Counseling skills for Managers
- E-504 HRM Cross Culture and Global Management
- E-505 HRM Legal Framework Governing Human Relation

Production

- E-303 PRO Total Quality Management
- E-304 PRO Production Planning and Control
- E-305 PRO Logistic Management -
- E-403 PRO Purchasing and Material Management
- E-404 PRO Applied Operation Research
- E-405 PRO Transportation Management
- E-503 PRO Goal Programming in Management
- E-504 PRO Service Operation Management
- E-505 PRO World Call Manufacturing

System

- E-303 SYS' Derision Support System
- E-304 SYS Business Process Reengineering
- E-3Q5 SY5 System Analysis and Design
- E-403 SYS Database Management

Planning

- E-405 SYS IT Application for Business
- E-503 SYS Security and Control Information System Dissemination
- E-504 SYS Software Engineering Management
- E-505 SYS E-Business

Marketing

- E-303-MAR Consumer Behaviour
- E-304-MAR Advertising Management
- E-305-MAR Sales and Distribution Management



E-403-MAR Strategic Management

E404-MAR Marketing of Services

E-405-MAR Retail Management

E-503-MAR International Marketing

E-504-MAR Brand Management

E-505-MAR Marketing Research

Rural Management

E-303 RUR Corporative Management

E-304 RUR Rural Credit Finance

E-305 RUR Rural Resource and Development

E4Q3 RUR Rural Industrialization

E-404 RUR Participatory Development in Rural Areas

E405 RUR Rural Marketing

E-503 RUR Waste Land Management

E-504 RUR Urban Development and Regional Planning

E-505 RUR Urbanization in India

Small Business and Entrepreneurship Management

E-303 SBE Government Business Interface

E-304 SBE Small Business Marketing

E-305 SBE Financing of Small Business

E-403 SBE New Enterprises Management

E-404 SBE Entrepreneurial Development

E-405 SBE Small Business Environment and Management

E-503 SBE Innovation and Small Business Management

E-504 SBE Small Business Investment and Management

E-505 SBE Small Business & Export Management

Health Care Administration

E-303 HCA Organization and Management of Hospital

E-304 HCA Health Care and Social Policy

E-305 HCA Health System Management

E-403 HCA Health Care Economics and Finance

E-404 HCA Environmental Health Management and Safety

E-405 HCA Health and Hospital Information System

E-503 HCA Health Communication: Development and

E-504 HCA Community Health, Epidemiology & Population

E-505 HCA Support and Utility Services and Risk Management

5. COURSE FACULTY:

- | | |
|----------------------------|-----------------------|
| 1. Prof. (Mrs.) P.Gahan | 9. Prof. R.P. Das |
| 2. Prof. B.Satpathy | 10. Prof. D.V. Ramana |
| 3. Prof. A.K.Das Mohapatra | 11. Prof. P.N. Panda |
| 4. Dr. P.C. Tripathy | 12. Prof. S.S. Rath |
| 5. Dr. T.K. Das | 13. Mr. P. Dandsana |
| 6. Mr. S. Kerketta | 14. Mr. K. Pradhan |
| 7. Mr. D.K. Mahalik | 15. Dr. . S. Sahu |
| 8. Dr. A. Chand | 16. Mr. D. Sahu |

Guest faculties will also be invited.

6. NUMBER OF SEATS: 40 (minimum to run the programme 20)

7. COURSE FEE:

- a) **Course Fee** : Rs.10,000/- per Semester payable in the begining of each semester.
- b) **Other fee:** Admission fee, Examination fee, Seminar fee and Development fee etc. as per Clause 12 of Prospectus.

8. OTHER SPECIAL FEATURES OF THE COURSE AND HOST DEPARTMENT:

The course has been designed to develop Executive by equipping them with managerial tools and techniques so as to make them capable of shouldering higher responsibility and contributing to the organizational growth.

The Department is equipped with highly qualified and experienced faculty with adequate modern infrastructure.

Join Hands to make your Campus Ragging Free



3. MASTER OF FINANCE AND CONTROL (MFC) IN THE P.G. DEPARTMENT OF ECONOMICS (AUTONOMOUS)

1.ELIGIBILITY CRITERIA : At least 2nd Class Hons. in B.A/B.Sc./B.Com or Pass Student with 45% in aggregate.

2.SELECTION CRITERIA : Career -40% Written- 40% Interview-20%

3.COURSE STRUCTURE :

1 ST Semester	Credits
Managerial Concepts & Organisational Behaviour	3
Business Environment	3
Managerial Economics	3
Statistical Analysis	3
Financial & Cost Accounting	3
Marketing Management	2
Financial Management	2
Total	23

2 nd Semester	Credits
Accounting for Managerial Decisions	3
Computer Application and Business	3
Financial Institution & Market	3
Corporate Legal Framework	3
Investment Management	4
Security Market Operation	3
Research Methodology and Business Communication	3
Total	22

3 rd Semester	Credits
Operational Research	3
Financial Services Marketing	3
International Finance	4
Portfolio Management	3
E-Commerce	3
Corporate Tax Planning & Management	3
Training Report & Presentation	3
Total	22

4 th Semester	Credits
Strategic Management	3
Strategic Financial Management	3
Insurance Management	3
Management Information System	3
Multinational Financial Management	3
Derivatives and Risk Management	3
Project Report and Viva-Voce	5
Total	23

4. COURSE FACULTY : Core & Guest Faculty

Economics :

- 1. Dr. P.K. Tripathy, Professor
- 2. Dr. S.S. Rath Professor
- 3. Sri B. Mishra Lecturer (SG)

Dept. of Business Administration

- 1. Dr. Biswajit Satapathy Professor
- 2. Dr. A.K. Das Mohapatra Professor
- 3. Dr. P.C. Tripathy Reader

Dept. of Law

- 1. Sri. J. Patjoshi Lecturer (SG)

Dept. of Anthropology

- 1. Dr. Premamanda Panda Professor

U.C.E., Burla

- 1. Dr. Debadutta Mishra Professor
- 2. Sri H.S. Behera Lecturer

Chartered Accountant

- 1. Sri M. Agrawal C.A.

5. NUMBER OF SEATS : 36 (minimum required to run -20)

6. FEE STRUCTURE : Course fee Rs.15,000/- Per Semester in addition to fee prescribed at Clause-12 of the Prospectus.

**7. OTHER SPECIAL FEATURES OF THE COURSE AND HOST DEPARTMENT :**

This 2 year Master degree programme is an application oriented Self-financing course based on discipline of Economics and Management, which suits the requirement of students to join private sector, public sector and business houses.

The Course has the sole objective of generating experts in finance, who can handle complex financial problems of enterprises (public as well as private) with personal integrity and social responsibility. The students challenged through readings, case discussion, project formulation and solving complex business problems. The course curriculum covers key financial areas of finance and so designed to foster creative thinking and innovative approach among the students.

The Autonomous Department has the unique distinction in the State of introducing Quantitative Economics & Public Economics in teaching and Research. The Department has a very strong alumni with placement of the products of the Department in various national and international institutions. The Department has been associated with Govt. and other Non-governmental organizations in collaborative and consultancy work.

**4. P.G. DIPLOMA IN DEVELOPMENT JOURNALISM (1 YEAR)
IN THE P.G. DEPARTMENT OF POLITICAL SCIENCE AND
PUBLIC ADMINISTRATION**

1. ELIGIBILITY CRITERIA : At least 45% of marks in M.A. in any discipline of Humanities and Social Sciences.

2. SELECTION CRITERIA : Written test , Career Marks and Personal Interview, carrying 60%, 30% and 10% weightage respectively.

3. COURSE STRUCTURE :**1st Semester**

Course No.	Subject
DJ- 101	Mass- Media, Society and Polity
DJ- 102	Indian Political System
DJ- 103	Development Journalism and Communication
DJ- 104	Media Organization and Management
DJ- 105	Media Laws and Ethics

2nd Semester

Course No.	Subject
DJ- 201	Reporting and Feature- Writing
DJ- 202	Editing: Concepts and Process
DJ- 203	Practical Reporting
DJ- 204	Practical Editing
DJ- 205	Dissertation and Viva-Voce

4. FEE STRUCTURE:

In addition to fees and subscriptions prescribed in the Prospectus at 12, a candidate shall pay Rs.7,500/- per Semester.

5. NUMBER OF SEATS: 30 (minimum to run the course-25)

6. RELEVANCE OF THE COURSE : The 1 year Diploma Course is intended and designed to prepare the students for the job of Journalist and media- Reporter for Mass media including TV, Radio, Newspaper etc.



5. MASTER OF SOCIAL WORK (MSW) IN THE P.G. DEPARTMENT OF ANTHROPOLOGY

- 1. MINIMUM ELIGIBILITY:** Any graduate securing 2nd class (Honours) or 45% of marks in aggregate in case of pass subjects.
- 2. SELECTION CRITERIA:** Written Test (60%), GD (20%), Personal Interview (10%), Career (10%)
- 3. DURATION OF THE COURSE:** 2 years (Full-time), Course curriculum involves camp-based field work, observational visits and industrial tours.
- 4. COURSE STRUCTURE:** Framed along the line of the UGC model course curriculum for MSW (Total: 80 CH)

FIRST SEMESTER			SECOND SEMESTER		
Course No.	Title	CH	Course No.	Title	CH
MSW-411	History and Philosophy of Social Work	4 CH	MSW-421	Social Exclusion and Inclusive Policy	4 CH
MSW-412	Understanding Society and Culture	4 CH	MSW-422	Rehabilitation and Resettlement	4 CH
MSW-413	Social Work Research and Quantitative Analysis	4 CH	MSW-423	Social Work Methods	4 CH
MSW-414	Human Growth and Development	4 CH	MSW-424	Corporate Social Responsibility	4 CH
MSW-415	Criminology and Justice	4 CH	MSW-425 - a	Practicum –I, ‘Structured Experience Laboratory and Research methodology Practical’	2 CH
			MSW-425 - b	Practicum –II, ‘Micro Level Study on Social Exclusion’	2CH
Non-Credit	IT in Social Sector		Non-Credit	Community Intervention and Entrepreneurship Development	
Total		20 CH	Total		20 CH

THIRD SEMESTER			FOURTH SEMESTER		
Course No.	Title	CH	Course No.	Title	CH
MSW-511	Ideology and Ethics of Social Work	4 CH	MSW-521	Social Work Administration	4 CH
MSW-512	Social Legislation and labour Welfare	4 CH	MSW-522	Indian Polity and Public Policy	4 CH
MSW-513	Social Problem and Social Development	4 CH	MSW-523	Tribal Anthropology and Social Work	4 CH
MSW-514	Vulnerable Children and their Development	4 CH	MSW-524	‘Poverty Reduction, Micro Finance and Micro Enterprises’	4 CH
MSW-515-a	‘Skilled Development Assessment’	2 CH	MSW-525	Human Resource Development / Rural Development	4 CH
MSW-515-b	Learning Social Work through Participatory Approach	2 CH	Non-Credit - I	Fundamental of Medical Social Work	
Non-Credit	‘Disaster Preparedness and Management’		Non-Credit – II	‘Block Field Work Placement’	
Total		20 CH	Total		20 CH

5. SPECIALIZATION OFFERED: (1) Human Resource Development (2) Rural Development



6. TOTAL NO. OF SEATS: 32 (For Regular Candidates) **06** (For In-Service Sponsored Candidates In-service candidate has to produce a ‘no-objection certificate’ and ‘relief order’ from his/her employer at the time of admission, there shall be no relaxation in attendance for in-service candidates) in case of non-availability of suitable inservice candidate the seats will be filledup by the candidates of general category whose names will figure in the merit list.

7. COURSE FACULTY :

Core Faculty	
Prof. D.K. Behera (Anthropology)	Prof. P.N. Sahu (Anthropology)
Prof. P. Panda (Anthropology)	Prof.R.K. Choudhury (Anthropology)
Mr. Madan Biswal (MSW Programme, S.U.)	Miss S. Samal
Prof. O.P Panigrahi (VSS Medical College, Burla)	Prof. S. Panda (VSS Medical College, Burla)
Prof. Smita Panda, VSS Medical College, Burla)	Prof. Mamata Giri (VSS Medical College, Burla)
Prof. R.C. Giri (VSS Medical College, Burla)	Prof. H.P. Acharya (VSS Medical College)
Shri B.Behuria, Senior Personnel Officer, MCL, Burla	J. Patjoshi (Dept. of Law, SU)
Prof. S. Mohanty (Dept. of Sociology, SU)	Dr. Lopamudra Mishra
Dr. A. Mohapatra (Dept. of English, SU)	Prof. B. Panda (Department of Home Sc., S.U.)
Prof. S.S. Ratha, (Dept. of Economics, SU)	Dr. Nibedita Nath, Dept. of Anthropology, SU
Dr. R. Pramanik, Dept. of Anthropology, SU	Prof. B.K. Mishra (Department of Home Science, S.U.)
Dr. S. C. Patel (Dept. of Pol.Sc, SU)	Dr. J. Xaxa (Dept. of Pol.Sc, SU)
Sumant Kerketa (Dept. of Business Administration, SU)	Er. D.K. Mahalik (Dept. of Business Administration, SU)
Prof. A.K. Das Mohapatra (Dept. of Bus. Admn., SU)	Dr. Narayani Panda, Vice-chairman, IRCS
Guest Faculty	
Dr. Abhaya Narayan Nayak, Census Office, BBSR	Dr. Diptibala Pattnaik, Ex-Joint Director, Health
Dr. Sarita Barpanda, (World Wide Interactive Group)	Mr. Ashwini Kumar Padhi, HINDALCO, Hirakud
Ms. Rita Mishra, Patang, Delhi	Ms. Nirupama Sarathy, Delhi School of Social Work
Dr. Srikant Patel, A.G. Nelson ORG Marg, Hyderabad	Dr. Mehul Chauhan, XIDAS, Jabalpur
Mr. Joy Gorge, Secretaty, IRCS, Sambalpur Branch	Dr. Guna Sagar Das, VSS Medical College, Burla

8. SPECIAL FEATURES OF THE COURSE AND HOST DEPARTMENT

Sambalpur University launched MSW couise from the academic session 2007-08. The course is being handled by a group of experienced faculty from the Post-Graduate Departments of Anthropology, Sociology, Economics, Political Science and Public Administration, Home Science, English, Business Administration and Law, The Department of Anthropology, Sambalpur University coordinates this self-financing course.

Infrastructure Facilities and Other Features

- Well-furnished classrooms, air-conditioned Conference Hall and computer laboratory with 16 computers and internet facility
- Use of LCD projector in class room teaching and transfer of course materials sent to students via internet, Photocopying facility
- Emphasis on capacity building (computer skill, communication skill, project writing and event management)

The Department

- Official headquarters of the International Commission on Children, Youth and Childhood.
- NLMA identified nodal agency for the evaluation of PLC and TLC outcomes.

Local Collaborations

- Dept. of Community Medicine, VSS Medical College, Burla, Sambalpur (Medical Social Work)
- Indian Red Cross Society, Sambalpur Branch
- Patang

MoU Signed with Overseas Institutions

- Institute for Ethnology, Free University of Berlin, Germany
- Dept. of Anthropology, University of Free State, South Africa
- Universidad Autonoma de NuevoLeon, Mexico
- Aarhus University, Denmark



Workshop/Training Programme Attended by the Students of MSW during 2008-10

- National Seminar on “Human Genomic and Cultural Diversity,” during March 2-4, 2009 organized by School of Studies in Anthropology, Pt. Ravi Shankar Shukla University, Raipur. Chattisgarh.
- National workshop “Status of Social Science Research and Teaching in Eastern India,” organised jointly by the School of Bio-Social Studies, Sambalpur University and Indian Council of Social Science Research, Eastern Regional Centre, Kolkata during February 17-19,2009.
- National Seminar on Dynamics of Tribal Development, during January 30-31, 2009 organized by Department Of Anthropology, Andhra University at Andhra University, Vishakapatnam, Andhra Pradesh.
- State-Level Workshop of Voluntary Blood Donors Organization on January 24-25, 2009, organized by Tyaga, Burla at MCL, Burla.
- Humanity and Applied science, on December 7-S, 2008 organized by Institute of Social Research and Applied Anthropology at Bidisa, Midinapur.
- Youth at Cross Roads, on October 15-16, 2008, organized by St. Aloysius College at Mangalore.
- National Conference and Workshop of Voluntary Blood Donors Organization, on May 10-12, 2008, organized by Tyaga, Burla at MCL, Burla.
- National Assembly And Workshop And Felicitation Ceremony of Voluntary Blood Donors Organizations And Motivators, organized by TYAGA, Orissa on December 25-27, 2009.
- Regional workshop on “Alternative Forms Of Care For The Children Without Parental Care”, at Sambalpur on December 18-19, 2009.
- Lets Volunteer For Our Planet organized by VSO INDIA, in association with Bakul Foundation in CYSD, at Bhubaneswar on December 5,2009.
- Training on “Forest Rights Act”, organised by Vasundhara at CYSD, Bhubaneswar from October 29-31,2009.
- A Consultation on ‘Forest Right Act’, at CYSD, Bhubaneswar, organized by Vasundhara, Bhubaneswar, on September 1-2, 2009-
- “AHWAN- A Call For Action: Appreciating Diversity” organized by PATANQ, Sambalpur at Govt. Boys High School, Burla on August 20, 2009.
- Symposia on “Corporate Social Responsibility With Emphasis On Rehabilitation & Resettlement” organized by National Institute of Personal Management, Mahanadi Chapter ,MCL Burla on July 11, 2009.
- Participated in “Social Audit OfNREGS” in West Bengal in June, 2009.
- “Volunteer Fair” organized by VSO India, in association with Bakul Foundation in CYSD, Bhubaneswar on December 6,2008.

Invited Lectures Delivered by Overseas Scholars in the department

- Professor Marine Carrin, Centre for Anthropology, Toulouse, France, 2008
- Dr. Uwe Skoda, Free University of Berlin, Germany, 2008
- Dr. Christian Strumpell, Free University of Berlin, Germany, 2008
- Dr. Sabastenia Zulie, University of Bonn, Germany, 2008
- Dr. Arun Kumar Acharya, Institute of Social Sciences, Monterrey, Mexico, 2008
- Dr. Lidiya Guzy, Institute for Ethnology, Free University of Berlin, 2007 and 2008
- Mr. Ken Snow, VOS, UK, 2008
- Dr. Uwe Skoda, Aarhus University, Denmark,2010
- Dr. Christian Strumpell, Free university of Berlin, Germany,2009
- Dr. Lidiya Guzy, institute For Ethnology, Free University of Berlin 2009
- Mr. Ken Snow, VOS, UK, 2009
- Dr. Andey Richards, 2009
- Dr. Peter Berger, 2009
- Ms. EvaRitchel, 2009

Organization of International/National Workshop in Past Years

- International Workshop: *Culture and Society of Western Orissa* (In collaboration with Institute of Ethnology, Free University of Berlin) 14 students from Free University of Berlin along with their teacher participated in the workshop, January 9-11, 2007.
- National Workshop: *Status of Social Science Research and Teaching in Eastern India*, organized jointly by School of Bio-Social Studies, Sambalpur University and Indian Council of Social Science Research, Eastern Regional Centre, Kolkata during March 17-19,2009.



10. FEE STRUCTURE

1st Semester

Course Fee: Rs. 12,000/- (for Regular candidates)
 Course Fee: Rs. 15,000/- (for In-service candidates)
 Development Fee: Rs.2,500/-

Seminar Fee: Rs.1,000/-
 Registration Fee: Rs.500/-
 Examination Fee: As per University prescribed fee
 University Admission Fee for 2010-11: As per University prescribed fee

2nd Semester

Course Fee: Rs. 12,000/- (for Regular candidates)
 Course Fee: Rs. 15,000/- (for In-service candidates)
 Development Fee: Rs.2,500/-

Fieldwork Fee: Rs.3,000/-
 Seminar Fee: Rs.1,000/-
 Registration Fee: Rs.500/-
 Examination Fee; As per University prescribed fee

3rd Semester

Course Fee: Rs. 12,000/- (for Regular candidates)
 Course Fee: Rs. 15,000/- (for In-service candidates)
 Development Fee: Rs.2,500/-

Fieldwork Fee: Rs.3,000/-
 Seminar Fee: Rs.1,000/-
 Registration Fee: Rs.500/-
 Examination Fee: As per University prescribed fee

4th Semester

Course Fee: Rs. 12,000/- (for Regular candidates)
 Course Fee: Rs. 15,000/- (for In-service candidates)
 Development Fee: Rs.2,500/-

Seminar Fee: Rs.1000/-
 Registration Fee: Rs.500/-
 Examination Fee: As per University prescribed fee

For further details about the course, contact:

The Coordinator, MSW Program, Department of Anthropology, Sambalpur University, Sambalpur-768 019, Orissa Phone Number: Office: 0663-2432*60; Cell: 9437058426; Email: <behera.dk@gmail.com> Visit website: www.suniv.ac.in

**6. M.TECH IN ENVIRONMENTAL SCIENCE AND ENGINEERING
 IN P.G.DEPARTMENT OF ENVIRONMENTAL SCIENCE (AUTONOMOUS)**

- 1.MINIMUM ELIGIBILITY :** M.Sc in any Science subject or B.Tech /B.E degree in any professional Course with a minimum of four years education after +2 degree
- 2.SELECTION CRITERIA :** Career -30 marks ,Written- 60 marks and Viva Voce 10 marks(Total 100)
 With the following distribution

For General M.Sc.Students	First Dvn	Second Dvn	Third Dvn
H.S.C.E	6.0	4.5	3.0
+2	6.0	4.5	3.0
+3 (Hons)	9.0	7.0	5.0
Distinction	1.0	1.0	1.0
M.Sc.	8.0	6.0	4.0
For Professional degree students	First class Hons	First class	Second Class
B.E /B.Tech(after +2)	18	13	8

(When number of application is less than the sanctioned strength, merit list will be prepared on the basis of career mark only)

3. COURSE STRUCTURE : FIRST SEMESTER

CORE Course No.	Title of the Course	Credit Hours
ESE 611	Fundamentals of Ecology and Environmental Sciences	3
ESE 612	Environmental Chemistry, Pollution and Control	3
ESE 613	Environmental Policies and Laws	3
ESE 614	Environmental Microbiology	3
ESE 615 A OR	Advanced Applied Statistics, Environmental System Optimization and modeling	3
ESE 615 B OR	Environmental Toxicology	3
ESE 615 C	Industrial Safety and Management	
ESE 616	Laboratory: Environmental Monitoring I	3
ESE 617	Seminar presentation	2
	Total Credit hours	20



SECOND SEMESTER

CORE Course No.	Title of the Course	Credit Hours
ESE 621	Instrumental Techniques and application in Environmental Science and Engineering	3
ESE 622	Environmental Impact Assessment, Environmental Audit and Environmental Management Systems	3
ESE 623 A	Air Quality Management	3
ESE 623 B	Remote Sensing and Geological information System	3
ESE 623 C	Hazards Control and Management in Industries	
ESE 624	Laboratory: Environmental Monitoring II	3
ESE 625	Seminar Presentation	2
ELECTIVE COURSE	A student shall select any one paper from ENS 623 And will have the option to choose any one of the following groups of Elective Course consisting of two papers, each of 3CH	
	GROUP I: Pollution Control and Management in Mining Industry	
ESE 626 A	Environmental aspects of Mining Industries	3
ESE 626 B	Solid and Hazardous Waste Management and land Reclamation	3
	GROUP II: Hydrogeology ,Watershed Management and Waste Water Engineering	
ESE 627 A	Hydrogeology and watershed Management	3
ESE 627 B	Waste water Engineering	3
	GROUP III: Environmental Geology	
ESE 628 A	Environmental Geology and Disaster management	3
ESE 628 B	Remote Sensing and Geological information System	3
	Total Credit hours	20
	GROUP III: Green Technology and Management	
ESE 629 A	Green Technology and Sustainable Development	3
ESE 629B	Soil Pollution and Waste Management	3
	Total Credit hours	20

A candidate shall select any one paper from ESE 623

- At the end of Second Semester, each student shall undergo one month summer training in an Industrial Establishment or Scientific Institution or any other organization and submit a Project Report on the activities for evaluation during third Semester. The student may ,in lieu of summer training , work on a minor project and submit the report for evaluation during the third semester.
- From the beginning of the third Semester ,a student shall work on a dissertation under the supervision of a suitable Guide from the P.G. Departments or outside including Scientists and Technocrats from Industries and Corporate Sectors with the approval of the Academic Committee. The dissertation will be evaluated both during Third semester (Interim) and Fourth Semester
- ESE 623 B can only be opted by students who do not belong to Environmental Geology Specialisation

THIRD SEMESTER

Course No.	Title of the Course	Credit Hours
ESE 711	Evaluation of Summer training Report/Minor Project Report	4
ESE 712	Seminar and Viva-Voce on Summer training Report/Minor Project Report	4
ESE 713	Comprehensive Viva-Voce	4
ESE 714	Evaluation of Dissertation(Interim) ,seminar and viva-Voce	8
	Total Credit Hours	20



FOURTH SEMESTER

Course No.	Title of the Course	Credit Hours
ESE 721	Evaluation of Dissertation	12
ESE 722	Seminar on Dissertation	4
ESE 723	Viva-Voce on dissertation	4
Total Credit Hours		20

Total Credit Hours of the Semesters-80

- 4.SPECIALIZATION OFFERED** :
1. Pollution Control and Management in Mining Industry
 2. Hydrogeology ,Watershed Management and Waste Water Engineering
 3. Environmental Geology
 4. Green Technology and Management

5.COURSE FACULTY : A. Core Faculty

Sl No.	Name of the teacher	Qualification	Area of Specialisation	Email address/ Telephone
1.	Prof. P.C.Mishra Professor	M.Sc,Ph.D,D.Sc.	Biological treatment of waste water and Waste Management, Environmental Monitoring and Eco-Toxicology, Environmental Management	pcm_envsu@rediffmail.com Tel -91-663-2542301-R 2431033-O
2.	Prof. S.K.Sahu Professor	M.Sc,M.Phil Ph.D	Soil Biology & Biotechnology, Solid Waste Management, Vermitechnology and Ecotoxicology and Environmental Monitoring	sahusanjat@rediffmail.com sanjatenv@yahoo.com 91-663-2430654-R 2431033 - O
3	Dr. S.K. Pattanayak Reader	M.Sc., Ph.D.	Geology and Geochemistry, GIS, Remote Sensing, Basin Studies, EIA and EMP, Disaster Management.	skp_envsu@gmail.com Tel-91-0663-2430855-R 2431033-O 9439809787-M
4	Dr.M.R.Mahananda Lecturer	M.Sc., Ph.D	Ecotoxicogenomics, Genetic Toxicity, Molecular Mutagenesis, Microbial ecological study, Management of hazardous solid waste, Chemical hazards on reproductive health	malay_env@rediffmail.com tel-91-06632430316-R 2431033-O M-9337303767

B-Guest Faculty

- 1.Prof.Niranjan Behera Professor in Life Sciences ,Sambalpur University
 - 2.Prof.Ashutosh Naik Professor in Earth Sciences ,Sambalpur University
 - 3.Prof.B.Behera Retd.Professor in Chemistry ,Sambalpur University
 - 4.Mr.J.N.Patjoshi Department of Law Sambalpur University
- Guest faculty from inside and outside the states are regularly invited to impart teaching in M.Tech Programme

6. NUMBER OF SEATS: 20 (Minimum to run the course 12)

7.COURSE FEE: Rs.20,000/- per Semester for regular students. Rs.25,000/- per Semester for sponsored students. This is in addition to fee prescribed at 12 of the Prospectus.



8. OTHER SPECIAL FEATURES

a. About the M.Tech. Programme

The M.Tech programme in Environmental Science and Engineering is first of its kind in the state and one of the few in the country and has successfully entered into the fourth 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. Five M.Tech. students of the first batch of the Department have joined Vedanta Aluminium at Jharsuguda as Environmental Scientists.

b. About the Host Department

The Department of Environmental Sciences in Sambalpur University was approved by the University Grants Commission during seventh plan period and was established in 1989 as the only Post Graduate Department of its kind in the state of Orissa and one of the few in the country. The Department started M.Phil. programme from the academic session 1990-1991 and M.Sc. programme from the session 1994-95. At present the student intake is ten at M.Sc. level and six at M.Phil. level. In addition to this five seats at M.Sc. and two seats at M.Phil, are filled up as self-financing seats. The Department is now highly acclaimed for a programme on M.Tech. in Environmental Science and Engineering on self-financing basis from the session 2007-08. This year there is an intake of twenty students into this programme. Besides these, the Department is running two self- financing courses, namely, P.G. Diploma in Environmental Education and Management (PGDEEM) and P.G. Diploma in Industrial Safety and Health (PGDEEM) through Distance Education mode. Based on its academic excellence, the Department is granted academic autonomy from the session 2006-2007.

The Department offers courses at M.Sc., M.Phil, and M.Tech. levels on various aspects of Environmental Sciences like System Ecology, Population and Community Ecology, Environmental Pollution, Resource Conservation and Management, Instrumental Techniques, Computer application and data analysis, Forest Ecology, Environmental Law and Society, Environmental Toxicology, Soil Biology and Biotechnology, Ecological Monitoring, Soil Pollution and Waste Management, Applications of Remote Sensing and GIS into Environmental Science, Energy Resources, Environmental aspects of Mining Industry, Hydrology & Watershed Management, Waste Water Engineering, EIA and EMP etc. Besides these, Seminar and Summer Training, Term Paper & Dissertation



work are also part of the course curricula. The course curricula of the Department have been updated from time to time to imbibe advanced knowledge in different areas of Environmental Science & Technology. To cater to the need of the students, the Department has a seminar library of about 600 books and a dozen of computers with Internet facilities and instruments relating to monitoring of air, water, soil and noise and analysis of biological samples etc.

Over the years the research activities have been carried out by the faculty members in the different areas of pollution monitoring, control and management. The teachers of the department have published a total number of 180 research papers in various national and international journals and 13 authored/edited books. As many as 17 Ph.D., 80 M.Phil, and 200 M.Sc. and 14 M.Tech. students have been awarded degrees from this Department. The Department has received financial support to the tune of Rs. 60 lakhs in the form of research projects from UGC, New Delhi, UNEP/GEF, INDAL, Hirakud, OPGC, Bhubaneswar, OSPCB, Bhubaneswar, NTPC, Farraka, NTPC, Kaniha, MCL, Sambalpur, ICMR, New Delhi. During 2003-2004, the department received a prestigious FIST grant of Rs. 20 lakhs from the Department of Science and Technology, Government of India to update the infrastructure facility of the Department.

The teachers of the Department are also associated with industries and other agencies in consultancy work on taxo-ecological enumeration of flora and fauna, air and water monitoring, management of organic waste through vermicomposting, fly ash utilization in agriculture, low cost waste water technology, assessment of quality of life of people around Development Projects, ecological enumeration of vegetation and their potential in carbon removal etc. The thrust and focus of the future research plan of the Department is Environmental Technology, Low-Cost Waste Water Treatment, Solid Waste Management, EIA and EMP Studies.

Since its inception, the Department has organised three National Seminars, three Workshops and ten U.G.C. sponsored Refresher Courses. The Department has already organized some national level Seminars viz. i) *Emerging Perspectives on Disaster management* during February 19-20, 2003 in collaboration with the Department of Anthropology, S.U., ii) *Environment and Sustainable Development* during March 17-18, 2007, and iii) *Sustainable Development of Earth Resources: Strategies on Management plan*, during February 13-14, 2010 in collaboration with the Department of Earth Sciences, S.U. The Department is on its way to organise an International Seminar on *Environment, Energy and Development (from Stockholm to Copenhagen and beyond)* during December 2010.



The teachers of the Department are also well recognized in their fields at National and International levels. Prof. P.C. Mishra has been nominated as a fellow of NIE, ZSI and Society of Environmental Sciences and is an Associate Fellow of International Congress of Chemistry and Environment. He is currently the president of Society of Environmental Science, Chief Editor of Indian Journal of Environment and Ecoplanning, Member of the Editorial Board in The International Journal of Chemistry and Environment, Bioscan, Indian Journal of Environmental Science. For his significant research contribution to Environmental Sciences he is felicitated with Prof. M.C. Dash gold medal instituted by ZSI, E.P. Odum Gold Medal by Society of Ecological Communication of India, Charles Darwin Gold Medal by Society of Ecological Communication of India. Prof. S.K. Sahu has also been accredited with young scientist award by Environmental Research Academy in the year 2001 for his significant research in the field of Environmental Sciences. He has been nominated as a Fellow of Zoological Society of India, Society for Sciences and International Society for Ecological Communications. He is currently the Assistant Editor of Journal of Food, Agriculture and Environment published from Finland. . The department has experts in the field of Biology, Chemistry, Environmental pollution and Management, Ecotoxicology, Soil Biology and Biotechnology, as well as Geology and Geochemistry.

A postgraduate, MPhil or M.Tech. student or a researcher of the department gets ‘ an appropriate training of working together in an inter-disciplinary environment. Many alumni of the Department are well placed in different teaching and research positions in various Government, Semi-Government Institutions, Universities, SPCB, CPCB, National and Multinational organizations in India and abroad. Many students have also opted a career in NGO in Orissa and outside. At present the Department has five Ph.D. scholars with regular fellowship who are pursuing research in different facets of Environmental Science.

For further information, contact:

*Prof. P.C. Mishra, Ph.D., DSc., Course Coordinator,
Department of Environmental Science, Sambalpur University, Jyoti Vihar-768019
(e.mail: pcm_envsu@rediffmail.com) Ph.No.0663-2431033, 09437052301*



7. M. Sc. IN APPLIED CHEMISTRY IN THE SCHOOL OF CHEMISTRY (AUTONOMOUS)

1. ELIGIBILITY CRITERIA : (i) Hons. in Chemistry with Physics or Mathematics as the Pass subject or (ii) Chemistry/ Industrial Chemistry as a Pass subject with Mathematics and Physics with 45% marks in aggregate, (iii) B. Sc./ B.E./ B. Tech. in Chemical Engineering with minimum 45% in aggregate.

There will be a Common Entrance Test for the admission into M. Sc. in Chemistry and Applied Chemistry.

2. SELECTION CRITERIA: 30% career, 60% written and 10% viva.

3. COURSE STRUCTURE:

COURSE No.	COURSE TITLE	CREDITS
1ST SEMESTER		
CHA- 401	GROUP THEORY, SOLID STATE AND NEUCLEAR CHEMISTRY	3
CHA- 402	TRANSITION MATAL CHEMISTRY	3
CHA- 403	STRUCTURE AND REACTIVITY	3
CHA- 404	STERIO CHEMISTRY	3
CHA- 405	THERMODYNAMICS	3
CHA- 406	DYNAMICS	3
CHA- 407	PHYSICAL GENERAL PRACTICAL- I	2
CHA- 408	PHYSICAL GENERAL PRACTICAL- II	2
TOTAL		22
2ND SEMESTER		
CHA- 411	METAL π - COMPLEXES AND CLUSTERS	3
CHA- 412	BIO-INORGANIC CHEMISTRY	3
CHA- 413	ORGANIC REACTION MECHANISM- I	3
CHA- 414	ORGANIC REACTION MECHANISM- II	3
CHA- 415	QUANTUM CHEMISTRY	3
CHA- 416	SURFACE CHEMISTRY	3
CHA- 417	INORGANIC GENERAL PRACTICAL	2
CHA- 418	ORGANIC GENERAL PRACTICAL	2
TOTAL		22
3RD SEMESTER		
CHA- 501	INSTRUMENTAL METHODS OF ANALYSIS	3
CHA- 502	MATERIAL AND ENERGY BALANCE	3
CHA- 503 to CHA- 522	Elective (1-20) with 3 credit each A student will choose 4 Theory Elective Courses	12
CHA- 524	INDUSTRIAL PRACTICAL	2
CHA- 508	INSTRUMENTAL PRACTICAL	2
TOTAL		22
4TH SEMESTER		
CHA- 535	COMPUTER APPLICATION IN CHEMISTRY	2
CHA- 536	ENTERPRENEURSHIP	2
CHA- 537	INDUSTRIAL POLICY	2
CHA- 538	PRACTICAL ON COMPUTER IN CHEMISTRY	2
CHA- 552	SEMINAR	2
CHA- 555	PROJECT	14
TOTAL		24

4. NUMBER OF SEATS: 10

5. COURSE FACULTY : Core faculty of the School of Chemistry and other Guest Faculty.

6. FEES STRUCTURE:

In addition to fees prescribed in the Prospectus at Clause-12 , a candidate shall pay Rs.10,000/- per Semester as Course Fee at the time of admission to each Semester.



**8. M.TECH. IN FOOD SCIENCE & TECHNOLOGY
IN THE P.G. DEPARTMENT OF
HOME SCIENCE(HUMAN DEVELOPMENT & FAMILY STUDIES)
IN COLLABORATION WITH
SCHOOL OF CHEMISTRY AND SCHOOL OF LIFE SCIENCES**

- 1. MINIMUM ELIGIBILITY:** A candidate with a minimum Master Degree in any Science Subject or B.E and B. Tech degree holder in related subjects of four years study after +2 Science , with a minimum of 45% marks are eligible.
- 2. SELECTION CRITERIA:** Career-30 marks, Written test-60 marks, and Viva-voce-10 Marks (Total-100 Marks), with the following distribution. (When the number of application is less than the sanctioned strength, merit list will be prepared on the basis of, career marks only.)

For General M.Sc students	First Division	Second Division	Third Division
H.S.C.E/ or equivalent	6.0	4.5	3.0
+2/ Or equivalent	6.0	4.5	3.0
+3 Honours	9.0	7.0	5.0
Distinction	1.0	1.0	1.0
M.Sc	8.0	6.0	4.0
For Professional Degree Student	First class Honours	First Class	Second Class
B.E/B.Tech after +2	18	13	8

3. COURSE STRUCTURE:

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS
FIRST SEMESTER		
FST-611	Food Chemistry and Analysis	04
FST-612	Food Microbiology	04
FST-613	Principles of Food processing & Post harvest Technology	04
FST-614	Food Engineering-I (Upstream Processing of foods)	04
FST-615	Practical Related to FST-611 & FST-612	02
FST-616	Practical Related to FST-613 & FST-614	02
	Total Credits	20
SECOND SEMESTER		
FST-621	Fermentation Technology & Food products	04
FST-622	Food Engineering-II (Downstream Processing of foods)	04
FST-623	Marketing of food products, Food safety & Food Laws	04
FST-624	Elective Paper (Any One)	04
	Protein Technology Technology of Dairy	
FST-625	Practical Related to FST-621	02
FST-626	Practical Related to FST-622	02
	Total Credits	20
THIRD SEMESTER		
FST-711	Term Paper	06
FST-712	Industrial Tour Report	06
FST-713	Seminar	03
FST-714	Interim Project Report	05
	Total Credits	20
FOURTH SEMESTER		
FST-721	Project Report and Evaluation	15
FST-722	Project Presentation	03
FST-723	Comprehensive Viva-Voce	02
	Total Credits	20



- * From the beginning of the Third Semester, a student shall select a topic related to the COURSE and write a term paper on the selected topic which will be evaluated at the end of the Third Semester.
- * At the end of Second semester each student shall visit one Industrial Establishment or Scientific Institution or any other course-related organization and submit a report on the activities for evaluation during Third Semester.
- * From the beginning of the Third Semester, a student shall work on a Dissertation under the supervision of a suitable Guide from the P.G. Departments or outside including scientist and technocrats from Industries and Corporate sector with the approval of the Academic Committee. The dissertation will be evaluated both during Third Semester (Interim) and Fourth Semester (Final).

4. SPECIALISATION OFFERED:

- Protein Technology
- Technology of Dairy Products
- Technology of cereals, pulses and oilseeds
- Post harvest management of fruits and vegetables
- Bakery and Confectionary Technology
- Beverages and Snacks food Technology

5. FACULTY: (a) School of Life Science

1. Prof. (Mrs.) B. Biswal
2. Prof.T.V.Rao
3. Prof. N. Behera
4. Dr. J. Panigrahi
5. Dr. E. Kariali
6. Dr. S.P. Mishra
7. Dr. (Mrs) B. Nayak
8. Dr. (Mrs) S. Sahoo
9. Dr. J. Rath

(b) Department of Chemistry

1. Prof. R.K. Behera
2. Prof. B.K. Mishra
3. Prof. P. K. Mishra
4. Dr. P. K. Behera
5. Dr. A. K. Behera
6. Dr. A. Mohapatra
7. Dr. S.N. Sahu
8. Dr. B.N.Patra

(c) Department of Home Science

1. Prof. (Mrs) B.K. Mishra
2. Prof.(Mrs) B. Panda
3. Dr. (Mrs) S. Sahoo

Specialization

- Biochemistry
- Biochemistry
- Microbiology
- Molecular Biology
- Physiology
- Microbiology
- Biochemistry
- Soil Ecology
- Biochemistry

Specialisation

- Organic Chemistry
- Organic Chemistry
- Surface Science
- Photochemistry
- Organic Synthesis
- Inorganic Synthesis
- Organic Chemistry
- Polymer Chemistry

Specialization

- Food & Nutrition
- Community Nutrition
- Community Nutrition

- * Guest Faculty/ Resource Persons from other Departments/University/Institutes will be invited from time to time to cover the courses as per the requirement

6.NUMBER OF SEATS: Annual intake of 20 (including 4 sponsored candidates) with reservation as per rule

7.COURSE FEE:Rs. 30,000/- per Semester for regular Students and Rs 50,000/- per Semester for Sponsored Students. This is in addition to the fee prescribed at clause 12 of the prospectus.



- 8. INFRASTRUCTURE AVAILABLE:** The **Center for Food Science and Technology** has been established by the University to offer courses on Food Science and Technology and to carry out research in areas of Food Science, Food Technology, Food Processing and Nutrition. Till the Center acquires its own building and other infrastructural facilities the course will run with the facilities available in three collaborating departments like Microbiology Lab, Biochemistry Lab, Biotechnology Lab, Central Instrumentation Lab, Plant & Animal Physiology Lab, Morphology & Genetics Lab, Computer Lab, Plant Culture Room, Cold Room, Dark Room, and other facilities will cater to the requirements of the students of this programme. Besides this, the University has already received fund for creation of infrastructure facility for M.Tech in Food Science & Technology course from the **Ministry of Food Processing Industries, Govt of India**.
- 9. SPECIAL FEATURE OF THE COURSE:** The new M.Tech. Programme in Food Science & Technology is interdisciplinary in nature. Food Science & Technology is a discipline concerned with all the technical aspects of food, beginning with harvesting / slaughtering, and ending with its packaging and marketing. It incorporates concepts from many different fields including microbiology, chemical engineering, biochemistry, nutrition, marketing, and others. It is an exciting area that applies a blend of basic sciences such as biology, chemistry, and physics with microbiology, biochemistry, mathematics, and engineering to improve the taste, nutrition, and value of the world's food supply. Food scientists extend this knowledge to the development of new food products, packaging, processes, and equipments. Examples of the activities of food scientists include the development of new food products, design of processes to produce these foods, choice of packaging materials, shelf-life studies, and sensory evaluation of the product with trained expert panels or potential consumers, as well as microbiological and chemical testing. M.Tech in Food Science & Technology can successfully prepare students to compete in this market. They will learn innovative technology that has been successful in placing nearly 100 percent of students in careers in product development, research, sales and marketing, quality assurance, production management, analytical and technical services, and regulatory food inspection as well as into higher education or professional programs.
- 10 CAREER PROSPECT:** Food Processing Industry is a very fast emerging industry with good job prospects in India and abroad. Processed and preserved foodstuffs have been instrumental in bringing about a change in the food habits of a large urban populace. From eating merely for subsistence, people now prefer to supplement their diet with 'value-added food'. Increase in consumption of processed foods is noticeable across various sections of the population and the trend of 'eating out' has grown manifold. In tune with these trends, the market for processed food is growing significantly. The food industry is the fifth largest industry in the country. Currently, it generates employment for about 20 lakhs people and will generate new jobs to the extent of 2.5 lakhs every year. It is estimated that the ratio of various types of jobs available in today's scenario in the country are: i). Factory production: 60%; ii) Research & Development (R&D): 15%; iii). Government laboratories: 3%; iv) Teaching: 2%; v). Other jobs: 20%. The stepping-in of multi-national companies (MNCs) has further increased job prospects and lucrative salary packages in this industry. There is a plethora of opportunities for Food technologists and Food Scientists, mainly in institutions like processing industries, hotels, food industries, quality control, hospitals, packaging industries, distilleries, bakery industries, soft drink factories, product design, pharmaceutical industry, biochemical engineering, spice, cereal and rice mills etc. Some of the exciting opportunities available as a career in Food Science include; new product development and product improvement; food packaging; technical service and sales; food safety; and regulatory food inspection and quality control. Self-employment through establishing startup projects is an important area for the post graduates of food technology. There are several government schemes for establishing small and medium enterprises. Even the Government of India is giving some subsidy and providing loans through nationalized banks to encourage entrepreneurship programmes, which work out to be an easy route to set-up their own business.



**9. M.Sc. IN FOOD SCIENCE & NUTRITION
IN THE DEPARTMENT OF HOME SCIENCE
(HUMAN DEVELOPMENT & FAMILY STUDIES)**

1. MINIMUM ELIGIBILITY: Any Science Graduate or any Technical/ Professional Graduate (MBBS, BE, B, Tech, BSc Ag, B.Pharma, B.Sc Home Science, and other related subjects of four years study after +2 Science)of Sambalpur University or of any other University recognized by Sambalpur University as equivalent thereto with a minimum of 45% marks is eligible. Graduates with Home Science Honours/ Pass along with P.G Diploma, Diploma, or Certificate Course in any of the subjects like Food & Nutrition/ Nutrition & Health Education/ Nutrition & Dietetics/ Hospital & Health Management and other related subjects with a minimum of 45% marks at Graduation level are also eligible for admission to M.Sc in Food Science& Nutrition.

2. SELECTION CRITERIA: Career-30 marks, written test-60 marks, and Viva-voce-10 Marks (Total-100 Marks). When the number of applications is less than the sanctioned strength, merit list will be prepared on the basis of career marks only

Course No.	Title of the Course	Credit Hours
FIRST SEMESTER		
FSN-411	Research Methodology	04
FSN-412	Statistical Methods & Computer Application	04
FSN-413	Extension Education & Communication	04
FSN-414	Environmental Management	04
FSN-415	Practical related to 411 & 412	02
FSN-416	Practical related to 413 & 414	02
	Total Credits	20
SECOND SEMESTER		
FSN-421	Advanced Food Science	04
FSN-422	Food Microbiology	04
FSN-423	Food Analysis	04
FSN-424	Community Health Management	04
FSN-425	Practical related to all the theory papers	02
FSN-426	Writing of Term Paper & Seminar	02
	Total Credits	20
THIRD SEMESTER		
FSN-511	Advanced Human Physiology	04
FSN-512	Therapeutic Nutrition	04
FSN-513	Nutritional Biochemistry	04
FSN-514	Advanced Nutrition	04
FSN-515	Practical related to all the theory papers	02
FSN-516	Dissertation (Evaluation Through Seminar presentation) (Writing of Synopsis & Field Work/Experimental work)	02
	Total Credits	20
FOURTH SEMESTER (A candidate Has to select any three elective papers)		
FSN-521	Nutrition through lifecycle (elective)	04
FSN-522	Problems in Human Nutrition (elective)	04
FSN-523	Food Processing Technologies (elective)	04
FSN-524	Food Service Management (elective)	04
FSN-525	Nutrition & Health of Women (elective)	04
FSN-526	Dissertation (Final thesis evaluation along with viva voce)	06
FSN-527	Seminar	02
	Total Credits	20

•From the beginning of the Third Semester, a student shall work on a Dissertation under the supervision of a suitable Guide from the P.G. Departments or outside including Scientist and Technocrats from Industries and Corporate sector with the approval of the Academic Committee. The dissertation will be evaluated both during Third Semester (fieldwork/ experimental work) and Fourth Semester (Final).

4. FACULTY TO BE ASSOCIATED WITH THE PROGRAMME :

(a)Department of Home Science

- 1.Prof. (Mrs) B.K. Mishra
- 2.Prof. (Mrs) B. Panda
- 3.Er. H.S. Biswal

Specialization

- Food & Nutrition
- Community Nutrition
- Food processing Technology

(b)School of Life Science

- 1 .Prof. T.V.Rao
- 2.Prof, N. Behera
- 3.Dr. J. Panigrahi
- 4.Dr. S.P. Mishra
- 5.Dr. A.K.Patel
- 6.Dr. J. Rath

Specialization

- Biochemistry
- Microbiology
- Molecular Biology
- Microbiology
- Microbiology
- Biochemistry

(c)Department of Chemistry

1. Prof. B.K. Mishra
2. Prof.(Mrs) P. K. Mishra

Specialization

- Organic Chemistry
- Surface Science

(d)Department of Environmental Sciences

1. Prof. P.C. Mishra
2. Prof.S.K. Sahu

Specialization

- Pollution Ecology & Env Management
- Soil Biology & Biotechnology

• **Guest Faculty/ Resource Persons from other Departments/University/Institutes will be invited from time to time to cover the courses as per the requirement.**

5. NUMBER OF SEATS: Annual intake of 20 with reservation as per rule

6. COURSE FEE: Rs. 15,000/- per Semester per Student. In addition to the fee prescribed at clause 12 of the prospectus.

7. INFRASTRUCTURE AVAILABLE: The **Center for Food Science and Technology** has been established by the University to offer courses on Food Science and Technology and to carry out research in areas of Food Science, Food Technology, Food Processing and Nutrition. Till the Center acquires its own building and other infrastructural facilities the course will run with the facilities available in the department of Home Science. The newly constructed Food Science Technology Laboratory with the funding of the MoFPI, Government of India, will cater to the requirements of the students of this programme.

8. SPECIAL FEATURE OF THE COURSE: The M Sc in Food Science and Nutrition programme focuses on the interface between Human Nutrition and Food Science, an area of increasing importance to Consumers, Government and the Food Industry. This M.Sc programme is interdisciplinary in nature and is a challenging and practical course which demands a good grasp of knowledge in science. The aim of the course is to provide knowledge and understanding of Fundamentals of Human Nutrition, Nutrition through Life Cycle, Nutrition in Health and Disease, Metabolism, Chemistry of Food Components, Public Health Science, Nutrition and Lifestyle, Research Methodology in Nutrition, Introduction to Food Microbiology, Sensory Attributes of Food, Statistics and Epidemiology, Microbial Quality Assurance and Regulation etc.

This programme will enable to develop:

- An understanding of the subjects at the interface between human nutrition and food science.
- An understanding of food constituents in the context of their manufacture and storage, particularly from the standpoints of safety and nutritional attributes.
- One's capacity to undertake research in food and nutrition.





- An understanding of diet and health issues, the implications for public health and impact on the food chain and associated industries.
- Skills in critical appraisal of data, presentational and interpersonal skills.

9. CAREER PROSPECT: This M.Sc. programme is for those wishing to develop a career in food-related research or the food industry. It is designed to meet the increasing demand for nutrition scientists experienced in human nutritional trials and in the evaluation of physiological, biochemical and molecular basis for effects of diet on human health. As a food nutritionist, one is endowed with the skills and knowledge to improve another's quality of life. Right from providing assistance in planning meals in times of old age, sickness or extreme stress, to advising them with regards to healthy eating-selection. Clientele for food nutritionists are perpetually on the rise as the era of junk food has irrevocably taken on a toll on many lives. Demand for food nutritionists is prevalent in hospitals that require their services for fixing nutritional regimens. Even athletes in physical training camps or mountaineers rely heavily on the instructions of a well qualified nutritionist. Moreover, even restaurants employ candidates with degrees in Food & Nutrition, Food Technology, Nutrition or Food Services Management. Thus nowadays, Food Science & Nutrition is one of the vital and growing fields where one can get endless opportunities if looking to build up a career. Dieticians /Nutritionists/ Food Technologists are required everywhere like hospitals, nursing homes, canteens, health clubs, catering unit of star hotels, government's health departments, food manufacturing companies and even in recreation clubs. Other noble options are to teach the subject in colleges or universities and to work as specialists to practice privately. Moreover, job offers will also come from mass media which prioritize the circulation of important information on healthy life. The main area of a food scientist cum nutritionists' work is Food Service Industry, Institutional Catering, Research and Development and Social Welfare, Health Care field etc. Food service consists of Restaurants and Catering service where nutritionists need to plan the menu and monitor food preparation. Same as Food service, Institutional Catering even requires dietetics professionals to plan, administer and arrange nutritious balanced diets for cafeterias of schools, colleges, offices, factories etc. Apart from that, their work might include evaluation and acquisition of food materials and equipment, checking and receiving inventories of supplies etc. Professionals carrying on such work are recognized as Administrative or Management Nutritionists. Nutritionists involved in Social Welfare activities, often called as Community dietitian or Public Health Nutritionists are mostly attached to government-aided public health divisions to improve the mass food habits and public health. Our post graduates can therefore expect to find themselves in demand from employers and often have to choose from several excellent job offers.



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