

SAMBALPUR UNIVERSITY



PROSPECTUS

FOR ADMISION INTO DIFFERENT POST GRADUATE
COURSES DURING THE ACADEMIC SESSION 2020-21

JYOTI VIHAR, BURLA
SAMBALPUR-768019
ODISHA

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 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 provides Two-Year Post-Graduate education for the Degrees of M.A / M.Sc/M.Tech/LL.M / MBA/ Master in Library & Information Science; in thirty-one subjects including Three-Year Executive M.B.A through the following Post-Graduate Departments:

Post-Graduate Departments of Sambalpur University

Name of the Department	Year of Establishment
(1) Political Science & Public Administration	1968
(2) Odia	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) Library & Information Science	1975
(11) Statistics	1976
(12) Home Science	1976
(13) Sociology	1976/1991
(14) Anthropology	1976/1991
(15) Earth Sciences (Applied Geology)	1984
(16) Law (LL.M.)	1986
(17) Computer Science & Application	1988
(18) Business Administration	1989
(19) Environmental Sciences	1989
(20) School of Performing Arts (Dance & Drama)	2010
(21) Hindi	2010
(22) Biotechnology & Bioinformatics (Self Financing)	2016
(23) Social Work (Self Financing)	2017
(24) Food Science Technology and Nutrition (Self-financing)	2017
(25) Education (Self Financing)	2018

The Post-Graduate Departments of the University also offer the following Self-financing Courses as noted against each:

Sl.No.	Course	Department	Year
(1)	Executive MBA	Business Administration	2004
(2)	M.Sc. Biotechnology	Biotechnology & Bioinformatics	2016
(3)	M.Sc. Bioinformatics	Biotechnology & Bioinformatics	2016
(4)	M.Sc. Applied Chemistry	Chemistry	2008
(5)	Integrated B.Ed-M.Ed	Education	2018
(6)	M.Tech. Environmental Science & Engineering	Environmental Sciences	2007
(7)	M.Sc. Food Science	Food Sc. Technology and Nutrition	2011
(8)	M.Sc. Food Sc. & Nutrition	Food Sc. Technology and Nutrition	2018
(9)	Master of Social Work	Social Work	2007

Autonomous status has been conferred upon the P.G. Departments of Chemistry, Life Sciences, History, Economics, English, Environmental Science, Mathematics, Statistics, Physics and Biotechnology & Bioinformatics.

There are 10 Post-Graduate Hostels in the University Campus out of which 05 are Ladies Hostels and 05 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, 01 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, Sponsored Research and Industrial Consultancy (SRIC) Cell, Professor Bhubaneswar Behera Central Library and Gymnasium are added features of Sambalpur University.

The following Schools 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 Mathematical Sciences comprising Mathematics and Statistics.
- (3) School of Life Sciences comprising Life Science & Microbiology.
- (4) School of Letters comprising Departments of English, Odia & Hindi.
- (5) School of Physics comprising Physics & Nuclear Physics.
- (6) School of Chemistry comprising Chemistry & Applied Chemistry.
- (7) School of Social Science comprising Economics, History and Political Science & Public Administration Departments.

The Admission Test for the following courses shall be done through Common P. G. Entrance Test (CPET-2020) conducted by Odisha State Higher Education Council, Higher Education Department, Govt. of Odisha.

Sl. No.	Course	Sl. No.	Course
1.	Anthropology	13.	Home Science
2.	Applied Chemistry (SF)	14.	Library & Information Science
3.	Biotechnology (SF)	15.	Life Sciences
4.	Bioinformatics (SF)	16.	LLM
5.	Chemistry	17.	Mathematics
6.	Computer Science	18.	MBA
7.	Earth Sciences (Applied Geology)	19.	MSW (SF)
8.	Economics	20.	Odia
9.	English	21.	Physics
10.	Environmental Science	22.	Political Science
11.	Hindi	23.	Sociology
12.	History	24.	Statistics

The Entrance Test for the following courses shall be conducted by the university through its P. G. Council as per the date and time as indicated in Table 1.2.

Sl. No.	Name of the Course
1.	Executive MBA (Self Financing)
2.	M.Tech. in Environmental Science and Engineering (Self-Financing)
3.	M.Sc. Food Science (Self-Financing)
4.	M.Sc. Food Sc. & Nutrition (Self-Financing)
5.	Integrated B.Ed-M.Ed (Self-Financing)
6.	Master in Performing Arts (Dance & Drama)

The Sambalpur University Institute of Information Technology (SUIIT) offers the following graduate/ post graduate courses:

B.Tech. (Computer Sc. & Engg. - CSE, Electronics & Communication Engg - ECE, Electrical & Electronics Engg. – EEE), M.Sc. (Computer Sc., Electronics, Computer Sc. With Big Data Analytics, Ecoinformatics), M.Tech. (Computer Science & Engg., Embedded System Design, Communication System Engg.), Master of Computer Application (MCA) and Ph.D. in Computer Science and Engineering, Electronics and Communication Engineering and Electrical and Electronics Engineering. For admission and other details to these courses visit: www.suiit.ac.in

The Academic Session for all P.G. courses is usually from 1st June of a year to 31st May of the next year except for any extra ordinary situation such as the COVID-19 where the Academic Session is readjusted as per government guidelines.

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ADMISSION FOR 2020-21

This Prospectus presents an overview of the procedure for admission to various **Post-Graduate Courses** offered by the Post-Graduate Departments of Sambalpur University.

1. Entrance Test:

- (a) Admission to the following courses as listed in Table- 1.1 shall be done through CPET-2020 as per details available in the CPET-2020-21 Prospectus at <https://pg.samsodisha.gov.in/PDF/CPPG.pdf>

Table- 1.1: Courses for which Entrance Test is conducted by Odisha State Higher Education Council

Sl. No.	Course	Offered by Department of
1.	Anthropology	Anthropology
2.	Applied Chemistry (SF)	Chemistry
3.	Biotechnology (SF)	Biotechnology & Bioinformatics
4.	Bioinformatics	
5.	Chemistry	Chemistry
6.	Computer Science	Computer Science
7.	Earth Sciences (Applied Geology)	Earth Sciences
8.	Economics	Economics
9.	English	English
10.	Environmental Science	Environmental Science
11.	Hindi	Hindi
12.	History	History
13.	Home Science	Home Science
14.	Library & Information Science	Library & Information Science
15.	Life Sciences	Life Sciences
16.	LLM	Law
17.	Mathematics	Mathematics
18.	MBA	Business Administration
19.	MSW (SF)	Social Work
20.	Odia	Odia
21.	Physics	Physics
22.	Political Science	Political Science & Public Admn.
23.	Sociology	Sociology
24.	Statistics	Statistics

- (b) Admission to the courses as listed in Table-1.2 shall be done through the entrance test conducted by Sambalpur University through its P.G. Council.

Table- 1.2: Courses for which Entrance Test is conducted by P. G. Council, Sambalpur University

Sl. No.	Name of the Course	Date of Entrance Test	Time
1.	Executive MBA (Self Financing)	05/11/2020	11.00 AM to 1.00 PM
2.	M.Tech. in Environmental Science and Engineering (Self-Financing)	05/11/2020	2.00 PM to 4.00 PM
3.	M.Sc. Food Science (Self-Financing)	06/11/2020	11.00 AM to 1.00 PM
4.	M.Sc. Food Sc. & Nutrition (Self-Financing)	06/11/2020	2.00 PM to 4.00 PM
5.	Integrated B.Ed-M.Ed (Self-Financing)	07/11/2020	11.00 AM to 1.00 PM
6.	Master in Performing Arts (Dance & Drama)	07/11/2020	2.00 PM to 4.00 PM

HOW TO APPLY

Candidates desirous of seeking admission to the courses listed under Table-1.2 above are required to submit applications online by adopting the following procedure:

- (i) **Online filling up of application form shall begin w.e.f. 02.10.2020**
The last date of submission of application online is 30.10.2020
- (ii) Candidates, in order to submit the application for admission, are required to login into the following link:
<http://www.suniv.ac.in> and click “online admission” or <http://eadmission.suniv.ac.in>
- (ii) The candidates may download the admission Prospectus-2020-21 and read it carefully before filling the form online.
- (iii) The candidate will have to pay **Rs.750** (Rupees Seven Hundred Fifty) only towards application fee through State Bank Collect through **Debit Card, Credit 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 <https://www.onlinesbi.com> in the address bar of the browser viz. internet explorer. Once the home page appears click on ‘**State Bank Collect**’ tab or click on **SBI Collect** tab on online admission page.

- ☞ Accept the disclaimer clause and click on “**Proceed**”.
- ☞ Select the State of Corporate/Institution as ‘**Odisha**’.
- ☞ Select type of Corporate/Institution as ‘**Educational Institutions**’ and click on ‘Go’.
- ☞ Now select Educational Institution Name as ‘**SAMBALPUR UNIVERISTY P.G. COUNCIL**’ and click on ‘Submit’.
- ☞ Select the payment category from the drop down as “P.G. Admission 2020-21”.
- ☞ 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 is generated containing a **Reference Number** in PDF format. Take a print out. You may also save this optionally for future reference. The e-Receipt can also be regenerated/reprinted afterwards from ‘Payment History’ link of ‘State Bank Collect’.

If ‘**SBI Branch**’ is selected as payment mode a Pre Acknowledgement Payment (**PAP**) form is 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 in the home page of www.onlinesbi.com for printing the e-receipt from the ‘Payment History’ link.

- (iv) 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 are vital and the candidate should carefully note down those for future use.

- (v) The candidates can then fillup 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 sends/submits the same, along with the following documents to the Course Coordinator of _____, _____, Sambalpur University, Jyoti Vihar-768019, Sambalpur (ODISHA) so as to reach on or before the date of Entrance Test for the subject concerned as indicated in the Table 1.2.

- 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 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 50% or more (in case of Physically Handicapped Candidates).
- 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.**
2. **Mere appearance in the Entrance Test does not entitle a candidate for admission unless s/he is eligible as per the criteria led down in the Admission Prospectus 2020-21.**

IMPORTANT DATES:

Online filling up of application form shall begin	From 02.10.2020
The last date of submission of application online	30.10.2020
Last Date of submission of hard copy of the application along with the required documents	On or before the date of Entrance Test for the subject concerned
Downloading of Admit Cards for Entrance Test	03.11.2020
Entrance Test	From 05.11.2020 to 07.11.2020
Publication of Entrance Test results	11.11.2020
Admission on the basis of merit will be completed	21.11.2020
Second Advertisement for filling of SC/ST vacancies, if any	23.11.2020
Final Advertisement for filling of SC/ST vacancies, if any	01.12.2020
Admission process to be completed on	07.12.2020

(vi) Procedure for downloading the Admit Card

Admit Card will be available on the website www.suniv.ac.in on **03/11/2020**. Candidates should login and download the same.

2. SANCTIONED SEAT STRENGTH:

The sanction seat strength for different courses are as follows:

Sl. No.	Course	Intake capacity
1.	Anthropology	16
2.	Applied Chemistry (SF)	15
3.	Biotechnology (SF)	32
4.	Bioinformatics	32
5.	Chemistry	28
6.	Computer Science	30
7.	Earth Sciences (Applied Geology)	16
8.	Economics	40
9.	English	24
10.	Environmental Science	24
11.	Hindi	16
12.	History	32
13.	Home Science	16
14.	Library & Information Science	16
15.	Life Sciences	32
16.	LLM	24
17.	Mathematics	32
18.	MBA	50
19.	MSW (SF)	32
20.	Odia	48
21.	Physics	32
22.	Political Science	32
23.	Sociology	24
24.	Statistics	20
25.	Executive MBA	40
26.	M.Tech. in Environmental Science and Engineer (Self-Financing)	24
27.	M.Sc. Food Science (Self-Financing)	20
28.	M.Sc. Food Sc. & Nutrition (Self-Financing)	20
29.	Integrated B.Ed-M.Ed (Self-Financing)	50 (admission shall be made on 50:50 ratio for Arts (Social Science and Humanities) and Science Streams. The seats for Arts and Science streams are not interchangeable.)
30.	Master of Performing Arts (Dance & Drama)	16
	Dance	
	Drama	16

3. ELIGIBILITY CRITERIA:

(a) The eligibility criteria for admission into P.G. courses listed under Table-1.1 shall be as mentioned in Annexure-2 of Common Prospectus 2020-21 issued by the Odisha State Higher Education Council, Higher Education Department, Government of Odisha and available online at <https://pg.samsodisha.gov.in/PDF/CPG.pdf>

(b) The eligibility criteria for admission into P.G. courses listed under Table-1.2 are as follows:

Sl. No.	Name of the Course	Eligibility
1.	Executive MBA (Self-Financing)	<p>“Any Graduate with two years of work experience after graduation in any registered Govt./ Private /Autonomous Organization shall be eligible for apply for admission to the I semester of three-year Executive MBA programme, Entrepreneur and self employed person with Own-SSIS, valid License, TIN, PAN etc. with annual sales turnover of Rs.50.00 Lakh or more and professionals such as Doctors, Engineers, Chartered Accountants, Cost Accountants, Company Secretaries, Legal Practitioners with two year experience will also be eligible for admission.”</p> <p>Candidates on job, seeking admission to the programme, will have to produce NOC from their respective organizations.</p>
2.	M.Tech. in Environmental Science and Engineering (Self-Financing)	M.Sc in any Science subject with at least 55% marks in aggregate or B.Tech /B.E degree in any professional Course of minimum four years duration after +2 science with at least 45% marks in aggregate
3.	M.Sc. Food Science (Self-Financing)	Any Science Graduate or any Technical/Professional Graduate (B. Tech., B.Sc. Agriculture, B. Pharma, B.Sc. Home Science and other related subjects of four years duration after +2 Science) of Sambalpur University or of any other University recognized by Sambalpur University as equivalent there to 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.

4.	M.Sc. Food Sc. & Nutrition (Self-Financing)	Any Science Graduate or any Technical/Professional Graduate (B. Tech., B.Sc. Agriculture, B. Pharma, B.Sc. Home Science and other related subjects of four years duration after +2 Science) of Sambalpur University or of any other University recognized by Sambalpur University as equivalent there to 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.
5.	Integrated B.Ed-M.Ed (Self-Financing)	Post Graduate in Humanities/ Social Sciences/ Sciences with at least 55% marks in aggregate.
6.	Master in Performing Arts (Dance & Drama)	Any Graduate with 45% marks in aggregate.

4. **CALCULATION OF CAREER MARKS:**

Career marks for candidates seeking admission into the courses contained in Table- 1.2 will be calculated as follows:

(A) FOR EXECUTIVE MBA:

Career:30 Written Test:40 Experience:30

EXPERIENCE:

3 marks shall be given for each completed year of experience subject to a maximum of 30 marks i.e 3 marks per year for a maximum of 10 years.

Formula for calculating career marks (out of 30) will be as per the general selection criteria except for +3 which will be as follows:

$$\text{Marks Secured in \%} = \frac{\text{Total Marks secured}}{\text{Maximum Marks}}$$

<u>Percentage of Marks</u>	<u>Weightage</u>
75% or above	15
60% or above but less than 75%	12
45% or above but less than 60%	10
All other eligible candidates	08

(B) FOR M.TECH. IN ENVIRONMENTAL SCIENCE AND ENGINEERING:

Career -30%,Written- 70% marks 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

(C) FOR M.Sc. IN FOOD SCIENCE & M.Sc IN FOOD SCIENCE & NUTRITION:

Career-30marks, written test- 70 marks(Total-100Marks).When the number of applications is less than the sanctioned strength, merit list will be prepared on the basis of career marks only.

For students who have passed Technical/professional Graduates

Degree	First Division	Second Division	Third Division/Pass
High School	6	4.5	3.0
+2	9	7	5
B.E./B.Tech./B.Sc. Home Sc./ B.Pharm (4 years study after +2)			
First Class Hons or equivalent grade - 75% marks or above			15
First Class or equivalent grade - above 60% marks and below 75%			13
Second Class or equivalent grade - above 50% marks and below 60%			10
Pass or equivalent grade with below 50% marks			07

+3(Honours): Marks secured in Honours Subject X 15
Maximum Marks in Honours Subject

+3(Pass): Aggregate Marks secured X 12
Maximum Marks

(D) FOR INTEGRATED B.Ed- M.Ed:

Career: 30%, Written test: 70%

H.S.C.E.	1 st Div. -3	2 nd Div. - 2	3 rd Div./Pass-1.5
+2	1 st Div. -5	2 nd Div. – 4	3 rd Div./Pass-3
+3 BA/B.Sc./B.Com	1 st Class Hons – 9	2 nd Class Hons – 7	Pass – 5 Distinction - 1
P.G.	1 st Class – 12	2 nd Class – 9	

(E) FOR MASTER OF PERFORMING ARTS (DANCE & DRAMA):

Selection for admission into Performing Arts (Dance & Drama) shall be done through Written Entrance Test 30%, Career Mark 30%, Performance Test 30%, Experience in Performing Arts 10%. However, a candidate must secure atleast 30% marks in Performance Test.

Career marks will be calculated from 30 marks out of which 05 marks will be given for 10th examination, 10 marks will be given for +2 examination and 15 marks will be given for +3 examinations. The applicants are requested to indicate either the marks or the CGPA as reflected in their mark sheets. The marks awarded for career will be as follows:

- (i) Percentage of marks expressed as a fraction or CGPA expressed as a fraction of 10 multiplied by 5 in the 10th examination, and multiplied by 10 in +2 examinations.
- (ii) If the applicant has applied for the subject at P.G.level, which s/he has taken as core/honors at UG level, then s/he will get 4 marks. For distinction, 01 mark will be awarded. The remaining 10 marks will follow the same formula as +2. In case of identical total marks in (entrance+ career), entrance marks will be taken for deciding the merit. If entrance marks are also identical then career mark in graduation examination (+3) and then+2 marks will be considered for deciding the rank. In case of +2 career marks being identical, the applicant born earlier will get the higher rank.

5. RESERVATION POLICY:

The reservation policy for admission into P. G. courses listed in Table- 1.1 shall be as mentioned in Clause-6 of Common Prospectus for the academic session 2020-21 issued by the Odisha State Higher Education Council, Higher Education Department, Government of Odisha available at <https://pg.samsodisha.gov.in/PDF/CPPG.pdf>

The reservation policy for admission into P.G. Courses listed in Table- 1.2 shall be 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) However, any modification made by the government in the reservation policy will be followed during admission.
- (iv) 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.
- (v) 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.

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

6. ADMISSION PROCEDURE:

- (a) (i) Candidates seeking admission to the P. G Courses listed in Table- 1.1 shall have to undergo the Common P G Entrance Test (CPET-2020) as per details given in **Common Prospectus for 2020-21 for the academic session 2020-21 issued by the Odisha State Higher Education Council, Higher Education Department, Government of Odisha available at <https://pg.samsodisha.gov.in/PDF/PPPG.pdf>**
- (ii) Admission to the candidates will be offered strictly as per CPET-2020 Merit List with applicable reservation policy and available intake capacity.
- (b) (i) Candidates seeking admission to the P. G Courses listed in Table- 1.2 shall be as per the merit list prepared by Sambalpur University for these courses based on the candidates' performance in the entrance test (70%) and career marks (30%). The criteria for career mark has been given under each course in the subsequent section.
- (ii) Candidates seeking admission to the Master in Performing Arts (Dance & Drama).

(iii) Admission to the candidates will be offered strictly as per merit list prepared by the respective Departments of Sambalpur University for the courses listed in Table- 1.2 with applicable reservation policy and available intake capacity.

- (c) 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).
- (d) Intimation to the selected candidates will be issued by the Head/Coordinator of the concerned Department through the candidates' registered email IDs.

7. ADMISSION:

A. The candidates selected for admission shall have to submit the following documents by Registered / Speed Post to the respective Heads/Coordinators of the P.G. Departments for admission.

- i. Print out of the Online Admission form submitted to CEPT-2020 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 respect 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.

FEE STRUCTURE

8. ADMISSION FEES, TUITION FEES AND SUBSCRIPTION:

The following Table contains details of Admission fees payable by a candidate, as applicable to the course, at the time of admission:

8.1 For P.G. Regular Course - Science

(Chemistry, Computer Science, Earth Science, Environmental Science, Life Science, Mathematics, Physics, Statistics)

Sl.No.	Details of fee	Students from Sambalpur University			Students from other University		
		General	SC/ST students	Women General Students whose parents do not pay Income Tax / Agricultural Tax	General	SC/ST students	Women General Students whose parents do not pay Income Tax / Agricultural Tax
1.	Admission fee *	5,867/-	5,685/-	5,776/-	6,092/-	5,910/-	6,001/-
2.	Departmental fee (except Computer Science)	4,632/-	4,632/-	4,632/-	4,632/-	4,632/-	4,632/-
	Departmental fee for Computer Science	24,632/-	24,632/-	24,632/-	24,632/-	24,632/-	24,632/-
3.	Bus fare **	4,200/-	4,200/-	4,200/-	4,200/-	4,200/-	4,200/-
4.	Hostel fee ***	As applicable	As applicable	As applicable	As applicable	As applicable	As applicable

8.2 For P.G. Regular Course - Arts, Humanities, Management including Mathematics

(Anthropology, Business Administration, Economics, English, Hindi, History, Home Science, Law, Library and Information Science, Odia, Performing Arts, Political Science and Public Administration, Sociology)

SI.No.	Details of fee	Students from Sambalpur University			Students from other University		
		General	SC/ST students	Women General Students whose parents do not pay Income Tax / Agricultural Tax	General	SC/ST students	Women General Students whose parents do not pay Income Tax / Agricultural Tax
1.	Admission fee *	5,821/-	5,665/-	5,743/-	6,046/-	5,890/-	5,968/-
2.	Departmental fee (except MPA and MBA)	4,632/-	4,632/-	4,632/-	4,632/-	4,632/-	4,632/-
	Departmental fee for MPA	6,632/-	6,632/-	6,632/-	6,632/-	6,632/-	6,632/-
	Departmental fee for MBA	24,632/-	24,632/-	24,632/-	24,632/-	24,632/-	24,632/-
3.	Bus fare **	4,200/-	4,200/-	4,200/-	4,200/-	4,200/-	4,200/-
4.	Hostel fee ***	As applicable	As applicable	As applicable	As applicable	As applicable	As applicable

8.3 For P.G. Self-financing Courses - Science

(Applied Chemistry, Biotechnology, Bioinformatics, Food Science, Food Science & Nutrition, M. Tech in Environmental Science & Engineering)

Sl.No.	Details of fee	Students from Sambalpur University			Students from other University		
		General	SC/ST students	Women General Students whose parents do not pay Income Tax / Agricultural Tax	General	SC/ST students	Women General Students whose parents do not pay Income Tax / Agricultural Tax
1.	Admission fee *	5,867/-	5,685/-	5,776/-	6,092/-	5,910/-	6,001/-
2.	Departmental fee	3,632/-	3,632/-	3,632/-	3,632/-	3,632/-	3,632/-
	In addition to the above, the following Fees for Self-Financing courses shall be collected by the respective Course Coordinator at the time of admission						
3.	(a) M.Sc. Applied Chemistry per Semester	28,500/-	28,500/-	28,500/-	28,500/-	28,500/-	28,500/-
	(b) M.Sc. Biotechnology per Semester	28,500/-	28,500/-	28,500/-	28,500/-	28,500/-	28,500/-
	(c) M.Sc. Bioinformatics per Semester	28,500/-	28,500/-	28,500/-	28,500/-	28,500/-	28,500/-
	(d) M.Sc. Food Science per Semester	18,500/-	18,500/-	18,500/-	18,500/-	18,500/-	18,500/-
	(e) M.Sc. Food Science & Nutrition per Semester	18,500/-	18,500/-	18,500/-	18,500/-	18,500/-	18,500/-
	(f) M.Tech. in Environmental Science & Engg. per Semester	28,500/-	28,500/-	28,500/-	28,500/-	28,500/-	28,500/-
	(g) M.Tech. in Environmental Science & Engg. (in service candidates) per Semester	33,500/-	33,500/-	33,500/-	33,500/-	33,500/-	33,500/-
	Alumni fee (only for M.Sc. Biotechnology and M.Sc. Bioinformatics)	500/-	500/-	500/-	500/-	500/-	500/-
	Bus fare **	4,200/-	4,200/-	4,200/-	4,200/-	4,200/-	4,200/-
Hostel fee ***	As applicable	As applicable	As applicable	As applicable	As applicable	As applicable	

**8.4 For P. G. Self Financing- Arts, Humanities, Management
(Executive MBA and Master of Social Work)**

Sl.No.	Details of fee	Students from Sambalpur University			Students from other University		
		General	SC/ST students	Women General Students whose parents do not pay Income Tax / Agricultural Tax	General	SC/ST students	Women General Students whose parents do not pay Income Tax / Agricultural Tax
1.	Admission fee *	5,821/-	5,665/-	5,743/-	6,046/-	5,890/-	5,968/-
2.	Departmental fee	3,632/-	3,632/-	3,632/-	3,632/-	3,632/-	3,632/-
3.	In addition to the above, the following shall be collected by the respective Course Coordinator at the time of admission						
	(i) Executive MBA per semester	13,500/-	13,500/-	13,500/-	13,500/-	13,500/-	13,500/-
	(ii) Master of Social work per semester	15,500/-	15,500/-	15,500/-	15,500/-	15,500/-	15,500/-
	Field Work fee (only for Master in Social Work for Semester-II & III)	@ 3,000/-	@ 3,000/-	@ 3,000/-	@ 3,000/-	@ 3,000/-	@ 3,000/-
4.	Bus fare **	4,200/-	4,200/-	4,200/-	4,200/-	4,200/-	4,200/-
5.	Hostel fee ***	As applicable	As applicable	As applicable	As applicable	As applicable	As applicable

8.5 For Integrated B.Ed.-M.Ed. Programme-Self Financing

SI.No.	Details of fee	Students from Sambalpur University			Students from other University		
		General	SC/ST students	Women General Students whose parents do not pay Income Tax / Agricultural Tax	General	SC/ST students	Women General Students whose parents do not pay Income Tax / Agricultural Tax
1.	Admission fee *	7,741/-	7,585/-	7,663/-	7,966/-	7,810/-	7,888/-
2.	Departmental fee	3,632/-	3,632/-	3,632/-	3,632/-	3,632/-	3,632/-
3.	Course fee (per semester)	28,500/-	28,500/-	28,500/-	28,500/-	28,500/-	28,500/-
4.	Bus fare **	4,200/-	4,200/-	4,200/-	4,200/-	4,200/-	4,200/-
5.	Hostel fee ***	As applicable	As applicable	As applicable	As applicable	As applicable	As applicable

* This includes Energy charges of Rs.5,400/- for Integrated B.Ed.-M.Ed. Programme and Rs.3,600/- for P.G. Courses and Caution money of Rs.1,000/-. Energy charges and Caution money will be refunded back to the Day scholars and Caution money will be refunded back to the Boarders, if they produce the clearance certificate from the concerned authorities.

** Advance Bus fare per annum for Day Scholars residing at Sambalpur and expected to come by University Bus

NB:

- (i) 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.
- (ii) 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. REQUIREMENT OF ATTENDANCE:

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 HOD/Coordinator certifies to that effect.

10. CONDUCT OF EXAMINATION:

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

11. 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.
- (ii) While admitting the students each H.O.D. 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).

12. 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.
 - (h) Non-adherence to COVID-19 Guidelines and SOP of the university

13. INTERPRETATION:

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

**GO AHEAD:
REPORT RAGGING**

HOSTEL ADMISSION RULES AND RELATED MATTERS

14. HOSTEL ADMISSION RULES AND RELATED MATTERS

- (i) Hostel accommodation shall be provided to students of P.G. Programme 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) Brahma Putra, Mahanadi, Bhagirathi, Golden Jubilee and IB Gents Hostels (for Male students only).
 - (b) Narmada, Silver Jubilee, Pravabati Devi, Baitarani, Yamuna and Indrabati Ladies Hostels (for Female students only).
 - (c) The selection for hostel admission will be made on the basis of the Merit List of the Entrance Test conducted through CPET-2020 and P. G. Council Sambalpur University.

(ii) RESERVATION

Reservation in various Hostels for SC and ST candidates is as per Rules, i.e., SC-16.25% and ST-22.5%

(iii) HOSTEL RENT/FEE

(a) SEAT RENT (Except Mahodadhi)

- (i) Single Seated Room
Rs.168/- per annum
- (ii) Multiple Seated Room
Rs.120/- per annum

(b) SEAT RENT (Mahodadhi Hostel)

- (i) Single Seated Room
Rs.800/- per annum
- (ii) Double Seated Room
Rs.400/- per annum

(c) FEES TO BE DEPOSITED IN THE HOSTEL

- | | | |
|-------|--|---------------------|
| (i) | Establishment fee | Rs.1000/- per annum |
| (ii) | Cultural fee | Rs.300/- per annum |
| | (This may increase if a hostel so decides) | |
| (iii) | Hostel Caution Money | Rs.100/- |
| (iv) | Utility Charges | Rs.500/- 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 HOD.
- (b) The selected boarders shall have to take admission through the P.G. Central Office by paying the following fees for the session at the Cash Counter, P.G. Central Office.
- (c) 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 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/outsideers 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 COVID-19/Government Guidelines and SOP of the university issued from time to time.

(g) **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 H.O.D.
- (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

**ADDITIONAL INFORMATION
FOR ADMISSION
TO
SELF-FINANCING COURSES
IN
P.G. DEPARTMENTS
2020-21**

A. EXECUTIVE MBA
DEPARTMENT OF BUSINESS ADMINISTRATION

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.

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

2. ELIGIBILITY CRITERIA: "Any Graduate with two years of work experience after graduation in any registered Govt./ Private /Autonomous Organization shall be eligible for apply for admission to the I semester of three-year Executive MBA programme, Entrepreneur and self employed person with Own-SSIS, valid License, TIN, PAN etc. with annual sales turnover of Rs.50.00 Lakh or more and professionals such as Doctors, Engineers, Chartered Accountants, Cost Accountants, Company Secretaries, Legal Practitioners with two year experience will also be eligible for admission."

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

3. COURSE STRUCTURE

1st 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

2nd 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

3rd 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		

4th 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		

5th 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		

6th 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

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 SEPCIALISATION PAPERS: Each paper carries 100 Marks.

FINANCE	Human Resource Management
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-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-505FIN international Finance	E-503 HRM Counseling skills for Managers E-504 HRM Cross Culture and Global Management E-505 HRM Legal Framework Governing Human Relation
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Marketing	Production
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	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

Rural Management	Health Care Administration
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	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 HCACommunity Health, Epidemiology & Population E-505 HCA Support and Utility Services and Risk Management

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

7. Name of the Course Coordinator :

**Prof.A.K. Das Mohapatra
Mob. 09437158107**

8. COURSE FACULTY :

- | | |
|----------------------------|---------------------------|
| 1. Prof. B.Satpathy | 14.Prof S R Mahapatra |
| 2. Prof. A.K.Das Mohapatra | 15. Dr. K. Pradhan |
| 3. Dr. P.C. Tripathy | 16. Dr. . S. Sahu |
| 4. Dr. T.K. Das | 17. Mr. N.K. Ojha |
| 5. Dr. D.K. Mahalik | 18. Mr. P K Sahu |
| 6. Mr. S. Kerketta | 19. Mr. O.P. Mishra |
| 7. Ms. A. Samal | 20. Prof. S.P. Mishra |
| 8. Dr. S.K. Sahoo | 21. Prof. A.K. Sribastab |
| 9. Dr. R.K. Mishra | 20. Mr. J. Patjoshi |
| 10. Prof. D.V. Ramana | 23. Prof. S. Teki |
| 11. Prof. P.N. Panda | 24. Dr.(Mrs.) M. Pattnaik |
| 12. Prof. S.S. Rath | 25. Prof A M Pal |
| 13. Dr. P. Dandsana | 26. Prof B R Parida |

Guest faculties will also be invited.

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

SPECIAL FEATURES OF THE COURSE AND HOST DEPARTMENT:

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.

- 1. ELIGIBILITY CRITERIA :** M.Sc in any Science subject with at least 55% marks in aggregate or B.Tech /B.E degree in any professional Course of minimum four years duration after +2 science with at least 45% marks in aggregate.
- 2. SELECTION CRITERIA :** Career -30%,Written- 70% marks 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 based on career mark only)

- 3. DURATION OF THE COURSE:** 2 YEARS
- 4. NUMBER OF SEATS:** 24 (Minimum number to run the course shall be decided by the Teachers Council of the respective Department).

5. 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	3
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	
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	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

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

6. Name of the Course Coordinator : Dr. S.K. Pattanayak **Mob. No.9439809787**
Teacher in-charge Examination : Prof. S.K. Sahu **Mob. No. 9668220609**

7. COURSE FACULTY : A. Core Faculty

Sl No.	Name of the teacher	Qualification	Area of Specialisation	Email address/ Telephone
1.	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 Tel - 91-663-2430654-R 2431033 - O
2.	Dr. S.K. Pattanayak Associate Professor	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

3.	Dr. M.R. Mahananda Lecturer	M.Sc., M.Tech, M.Phil, 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-9439536915
4.	Dr. I. Baitharu Assistant Professor	M.Sc., M.Phil. Ph.D.	Metagenomics, Environmental Toxicology, Neurotoxicology, Environmental Biotechnology	iswarbaitharu@suniv.ac.in Tel – 91-0663-24101101 – R 2431033 – O 8763313595 - M

B-Guest Faculty

- 1.Prof. P.C. Mishra Retd. Professor in Environmental Science, Sambalpur University, Former Expert member National Green Tribunal
 - 2.Prof.Niranjan Behera Retd. Professor in Life Sciences ,Sambalpur University
 - 3.Prof.Ashutosh Naik Retd. Professor in Earth Sciences ,Sambalpur University
 - 4.Prof.B.Behera Retd. Professor in Chemistry ,Sambalpur University
 - 5.Mr.J.N.Patjoshi (Retd.) Department of Law Sambalpur University
- Guest faculty from inside and outside the states are regularly invited to impart teaching in M.Tech Programme

C-Contractual Faculty

- 1.Dr.(Mrs.) R. Panda
- 2.Mr. A. Bhadra

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, OSPCCB, 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 post graduate, M.Phil 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:

Dr. S.K. Pattanayak,

***Department of Environmental Science, Sambalpur University, Jyoti Vihar-768019
(e.mail: skp.envsu@gmail.com) Tel-91-0663-2430855(R), 2431033(O), 9439809787(M)***

Prof. S.K. Sahu,

***Department of Environmental Science, Sambalpur University, Jyoti Vihar-768019
(e.mail: sahusanjat@rediffmail.com) 9668220609(M)***

C. M.Sc. IN FOOD SCIENCE,
P.G. DEPARTMENT OF FOOD SCIENCE TECHNOLOGY &
NUTRITION

SPECIAL FEATURE OF THE COURSE: M. Sc. in Food Science programme focuses on the Food Science, an area of increasing importance to Consumers, Government and the Food Industry. This M.Sc programme is inter disciplinary 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 food and food products, basic concepts of Nutrition, Chemistry of Food Components & Techniques in Food Analysis, Food Microbiology, Food Safety, Quality Control & Packaging , Food Biotechnology & Statistical Methods in Food Science 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 stand points of safety and nutritional attributes.
- One's capacity to undertake research in food science.
- Skills in critical appraisal of data, presentational and interpersonal skills.

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. 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.

1. ELIGIBILITY CRITERIA: Any Science Graduate or any Technical/ Professional Graduate (B. Tech., B.Sc. Agriculture, 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 there to 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 and Nutrition.

2. SELECTION CRITERIA: Career-30marks, written test- 70 marks(Total-100Marks).When the number of applications is less than the sanctioned strength, merit list will be prepared on the basis of career marks only.

For students who have passed Technical/ professional Graduates.

Degree	First Division	Second Division	Third Division/Pass
High School	6	4.5	3.0
+2	9	7	5
B.E./B.Tech./B.Sc. Home Sc./ B.Pharm (4 years study after +2)			
First Class Hons or equivalent grade - 75% marks or above			15
First Class or equivalent grade - above 60% marks and below 75%			13
Second Class or equivalent grade - above 50% marks and below 60%			10
Pass or equivalent grade with below 50% marks			07

+3(Honours): $\frac{\text{Marks secured in Honours Subject}}{\text{Maximum Marks in Honours Subject}} \times 15$

+3(Pass): $\frac{\text{Aggregate Marks secured}}{\text{Maximum Marks}} \times 12$

- 3. DURATION OF THE COURSE:** 2 Years
- 4. NUMBER OF SEATS:** 20 with reservation as per rule. (minimum number to run the programme shall be decided by the Teachers Council of the respective Department)

5. COURSE STRUCTURE: **Total Course Credits = 90**

Course No.	Title of the Course	Credit Hours
FIRST SEMESTER		
FS-411	Food & Food Products	04
FS-412	Food Microbiology	04
FS-413	Food Chemistry	04
FS-414	Basic concept of Nutrition	04
FS-415	Practical related to 411&412	04
FS-416	Practical related to 413&414	04
Optional (Any one)	Add on non credit course: A. Communication Skill B. Leadership and Personal Development	
	Total Credits	24
SECOND SEMESTER		
FS-421	Food ingredients, additives & nutraceuticals	04
FS-422	Techniques in Food Analysis	04
FS-423	Food safety & Quality control	04
FS-424	Food processing & Preservation	04
FS-425	Practical related to 421 & 422	04
FS-426	Practical related to 423 & 424	04
	Total Credits	24
THIRD SEMESTER		
FS-511	Food Packaging & post harvest Technology	04
FS-512	Statistical Methods in Food Science	04
FS-513	Food Biotechnology	04
FS-514	Elective Paper (any one)	04
	a. Beverages and Snack Food Technology b. Dairy technology c. Food Engineering d. Nutrition and Dietetics	
FSN-515	Practical on All Theory papers	04
FSN-516	Seminar-I	02
Optional (Any one)	Add on non credit course: A. Entrepreneurship Development B. Soft Skill and IT Skill	
	Total Credits	22

FOURTH SEMESTER		
FSN-521	Term Paper/Review Paper	02
FSN-522	Final Dissertation & Viva-voice	12+2
FSN-523	Seminar-II	02
FSN-524	Industrial Tour Report	02
	Total Credits	20
	Total Course Credits	90

6. Name of the Course Coordinator: Dr. Binata Nayak **Mob.No.**9439896178,
7978477327

Email id: cordcfst@suniv.ac.in

7. COURSE FACULTY:

(A) Core Faculty

1. Er. A. Priyadarshini
2. Er. Shweta Parida
Chemistry
3. Mr.Saloman Behera
Technology

Specialization

Food Science & Technology
Food Technology/ Food
Microbiology & Fermentation

(B)Guest Faculty

School of Life Sciences

1. Dr.(Mrs.) S. Sahoo
2. Dr.(Mrs) B.Nayak

Specialization

Soil Ecology
Biochemistry & Physiology

Department of Chemistry

1. Prof. B.K. Mishra (Emeritus)
2. Prof.(Mrs) P. K. Misra
3. Dr. S.N. Sahu
4. Dr. A.K.Behera

Specialization

Organic Chemistry
Surface Chemistry
Organic Chemistry
Organic Synthesis

Department of Biotechnology & Bioinformatics

1. Prof. P.K Naik
2. Dr. A.K.Patel

Specialization

Molecular Biology
Microbiology & Industrial
Biotechnology

Guest Faculty

1. Dr. Dibya Kanta Seth Assistant Prof., Tezpur University, Assam.
2. Dr. Prakash Kumar Nayak Assistant Prof., CIT, Assam.
3. Dr. S. S. Mahananda Assistant Prof., Central agricultural University, Agartala.
4. Prof. N. Behera Former Prof .School of Life Science, S.U.
5. Prof. N.K. Choudhury Former Prof .School of Life Science, S.U.
6. Prof. S. K. Acharya HOD of Agricultural Extension, BCKV, Kalyan, Nadia, WB
7. Dr. Kalpana Rayaguru Associate Prof., CAET,OUAT, BBSR.
8. Dr. K.C.Yadav Assistant Prof., VSAET, SHIATS, Allahabad. U.P.

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

8. INFRASTRUCTURE AVAILABLE: P.G Department of Food Science Technology and Nutrition 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.

Major Equipments Available: The laboratories are well equipped with sophisticated equipments like UV- Visible spectrophotometer, Millipore water purification system, laminar air flow, Packaging machine, Vacuum rotary evaporator, Hot air oven, Bacteriological Incubator, Freeze Drier, Vacuum concentrator, Centrifuge, Melting Point Apparatus, Muufle Furnace, Flame photometer, Colour flex, Cooling centrifuge, Orbital shaking Incubator, TLC assembly, Electrophoresis, Deep freeze, Autoclave, Projection microscope, Texture analyzer, Gas Chromatography, Canning unit, Emulsifying machine, Humidity convection oven, Refractometer, Package testing machine etc.

9. TRAINING AND PLACEMENT: Till now department has recommended students for hands on training in both on-campus and off-campus institutions. 55 no's of students have already completed their M.Sc. Research Projects from reputed institutions like CFTRI, Mysore, IICPT, Tanjur, CRRI, Cuttack, RMRC-CSIR and various Hospitals of Odisha and West Bengal. About 80% of the students passed from the department got placed in different industries. The Department is expecting to excel in training. The Department is expecting to excel in training and placement in future.

D. M.Sc. IN FOOD SCIENCE AND NUTRITION

P.G. DEPARTMENT OF FOOD SCIENCE TECHNOLOGY & NUTRITION

SPECIAL FEATURE OF THE COURSE: M. Sc. in Food Science and Nutrition programme focuses on the Nutrition, Dietetics and Food Science, an area of increasing importance to Consumers, Government and the Food Industry. This M.Sc. programme is inter disciplinary in nature and is a challenging and practical course which demands a good grasp of knowledge in science for human welfare. The aim of the course is to provide knowledge and understanding of Fundamentals of food and food products that interact with human metabolism, basic concepts of Nutrition, Nutritional requirement at various stages of life, Chemistry of Food Components & Techniques in Food Analysis 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 science/ nutrition.
- Skills in critical appraisal of data, presentational and interpersonal skills.

CAREER PROSPECT: This M.Sc. programme is for those wishing to develop a career in hospitals, NGO's, 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. 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 every where 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. 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

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2. SELECTION CRITERIA: Career-30marks, written test-70 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.

For students who have passed Technical/ Professional Graduates.

Degree	FirstDivision	SecondDivision	ThirdDivision/Pass
HighSchool	6	4.5	3.0
+2	9	7	5
B.E./B.Tech./B.Sc. Home Sc./B.Pharm(4years study after +2)			
First Class Hons. Or equivalent grade-75% marks or above			15
First Class or equivalent grade – above 60% marks and below 75%			13
Second Class or equivalent grade –above 50% marks and below60%			10
Pass or equivalent grade with below50%marks			07

+3(Honours): Marks secured in Honours Subject X15
Maximum Marks in Honours Subject

+3(Pass): Agreegate Marks securedX12
Maximum marks

3. DURATION OF THE COURSE: 2 Years

4. **NUMBER OF SEATS:** 20 with reservation as per rule. (minimum number to run the programme shall be decided by the Teachers Council of the respective Department).
5. **COURSE STRUCTURE:** **Total Course Credits=90**

Course No.	Title of the Course	Credit Hours
FIRST SEMESTER		
FSN-411	Food Commodities	04
FSN-412	Food Microbiology, Hygiene and Sanitation	04
FSN-413	Nutritional Biochemistry	04
FSN-414	Basic Concepts of Nutrition	04
FSN-415	Practicals Related to FSN-411 & FSN-412	04
FSN-416	Practicals Related to FSN-413 & FSN-414	04
Optional (Any one)	Add on non credit course: A. Communication Skill B. Leadership and Personal Development	
	Total Credits	24
SECOND SEMESTER		
FSN-421	Food ingredients and Nutraceuticals	04
FSN-422	Food Analysis	04
FSN-423	Food Quality and Packaging	04
FSN-424	Advanced Human Physiology	04
FSN-425	Practicals Related to a theory paper	04
FSN-426	Summer Internship	02
	Total Credits	22
THIRD SEMESTER		
FSN-511	Therapeutic Nutrition	04
FSN-512	Genetics and Food Biotechnology	04
FSN-513	Research Methodology and Biostatistics	04
FSN-514	Elective Paper (any one)	04
	a. Community Health Management b. Public Health Nutrition c. Institutional Food Management d. Food Processing and Preservation	
FSN-515	Practical on Diet Therapy	04
FSN-516	Seminar-I	03
Optional (Any one)	Add on non credit course: A. Entrepreneurship Development B. Soft Skill and IT Skill	
	Total Credits	23
FOURTH SEMESTER		
FSN-521	Term Paper/Review Paper	02
FSN-522	Final Dissertation & Viva-voice	12+2
FSN-523	Seminar-II	03
FSN-524	Industrial Tour Report	02
	Total Credits	21
	Total Course Credits	90

Name of the Course Coordinator:

Dr. Binata Nayak **Mob. No.** 9439896178, 7978477327

Email id: cordcfst@suniv.ac.in

6. COURSE FACULTY:

(A)Core Faculty

1. Er. A. Priyadarshini
2. Er. Shweta Parida
3. Mr. Saloman Behera
Technology

Specialization

Food Science & Technology
Food Technology/Food Chemistry
Microbiology & Fermentation

(B)Guest Faculty

School of LifeSciences

1. Dr.(Mrs.)S.Sahoo
2. Dr.(Mrs) B.Nayak

Specialization

Soil Ecology
Biochemistry & Physiology

Department of Chemistry

1. Prof.B.K.Mishra(Emeritus)
2. Prof.(Mrs)P.K.Misra
3. Dr.S.N.Sahu
4. Dr. A.K.Behera

Specialization

Organic Chemistry
Surface Chemistry
Organic Chemistry
Organic Synthesis

Department of Biotechnology & Bioinformatics

1. Prof. P.K Naik
2. Dr.A.K.Patel
Biotechnology

Specialization

Molecular Biology
Microbiology & Industrial

Guest Faculty

- | | | |
|-----|-------------------------|--|
| 1. | Dr. Dibya Kanta Seth | Assistant Prof., Tezpur University, Assam. |
| 2. | Dr. Prakash Kumar Nayak | Assistant Prof., CIT, Assam. |
| 3. | Dr. S. S. Mahananda | Assistant Prof., Central Agricultural University, Agartala. |
| 4. | Prof. N.K. Choudhury | Former Prof .School of Life Science, Samabalpur University |
| 5. | Prof. S. K. Acharya | HOD of Agricultural Extension, BCKV, Kalyan, Nadia, WB |
| 6. | Dr. Kalpana Rayaguru | Associate Prof., CAET, OUAT, BBSR. |
| 7. | Dr. Pravabati Guru | Deputy Director, Regional Directorate Office, Sambalpur |
| 8. | Mr. Nirmalya Ku. Sinha | Lecturer, Dept. of Nutrition, Raja NL Khan Women's College,WB |
| 9. | Dr. Malay Ku. Patsa | Lecturer & HOD, Dept. of Nutrition, Bankura Sammilani College,WB |
| 10. | Mr. Ajay Kumar Dhal | Dietician, VIMSAR, Burla. Sambalpur. |

11. Mrs. Nandika Singh Dietician-NRC, VIMSAR, Burla, Sambapur.
12. Ms. Shilpa Jana Assistant Prof., MITS, Rayagada, Odisha.

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

7. INFRASTRUCTURE AVAILABLE: P.G Department of Food Science Technology and Nutrition 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.

Major Equipments Available: The laboratories are well equipped with sophisticated equipments like UV- Visible spectrophotometer, Millipore water purification system, laminar air flow, Packaging machine, Vacuum rotary evaporator, Hot air oven, Bacteriological Incubator, Freeze Drier, Vacuum concentrator, Centrifuge, Melting Point Apparatus, Muffle Furnace, Flame photometer, Colour flex, Cooling centrifuge, Orbital shaking Incubator, TLC assembly, Electrophoresis, Deep freeze, Autoclave, Projection microscope, Texture analyzer, Gas Chromatography, Canning unit, Emulsifying machine, Humidity convection oven, Refracto meter, Package testing machine etc.

8. TRAINING AND PLACEMENT: Till now department has recommended students for hands on training in on-campus. 16 no's of students have already completed their M.Sc. Research Projects from Sambalpur University. About 50% of the students passed from the department got placed in different organizations like hospitals, AMWAY, VLCC dietician. The Department is expecting to excel in training/ Internship/ Dissertation work **for last 6months in hospitals, CSIR-ICMR Labs and NRC-organizations**. The Department is expecting to excel in training and placement in future.

E. INTEGRATED B.Ed.-M.Ed.,

P.G. DEPARTMENT OF EDUCATION

SPECIAL FEATURE OF THE COURSE: The Integrated B.Ed.- M.Ed. Programme is a three-year full-time professional programme in education, without any option of intermediate exit before completing the 3-years study. It aims at preparing teacher educators and other professionals in education, including curriculum developers, educational policy analysts, educational planners and administrators, school principals, supervisors and researchers in the field of education. The completion of the programme shall lead to integrated B.Ed. – M.Ed. degree with specialization in school education (both elementary and secondary).

1. **DURATION OF THE COURSE:** 3 Years
2. **NUMBER OF SEATS:** 50
3. **ELIGIBILITY CRITERIA:** Post Graduate in Humanities/ Social Sciences/ Sciences with at least 55% marks in aggregate.
4. **COURSE STRUCTUR**

SEMESTER-WISE COURSES AND CREDITS**SEMESTER – I (20 +4 Credits)**

Course	Title	Credit (s)		Marks		
		Theory (Teaching Hrs.)	Practicum (hours/ weeks)	Internal Assessm ent	External Exam.	Full Marks
PC-3	Education, School and Society	4 (64 Hrs.)	1(32)	30	70	100
PC-5	Childhood and Growing up	4 (64 Hrs.)	1(32)	30	70	100
PC-8	Curriculum Studies	4 (64 Hrs.)	1(32)	30	70	100
PPP	Pedagogy Processes and Practices	4(64 Hrs.)	1(32)	30	70	100

PSS-A	Pedagogy of School Subject Gr.A-P.1	4 (64 Hrs.)	1(32)	30	70	100
PSS-Pr.-I	SI -I School Exposure	-	04 (2 weeks)	100	-	100
Total		20 (320Hrs.)	04 (160hrs & 2 weeks)	150+100	350	500+100

SEMESTER- II (18 +6 CREDITS)

Course	Title	Credit (s)		Marks		
		Theory (Teaching Hrs.)	Practicum (weeks)	Internal Assessment	External Exam.	Full Marks
PC-4	Historical, Political and Economic Perspectives of Education	4 (64 Hrs.)	-	30	70	100
PC-6	Learner and Learning	4 (64 Hrs.)	-	30	70	100
PC-10	Learning Assessment	2 (32 Hrs.)	-	15	35	50
RTS-3	Inclusive Schooling	2(32 Hrs.)	-	15	35	50
RTS-4	ICT in Education	2(32 Hrs.)	-	15	35	50
PSS-A	Pedagogy of School Subjects Gr.A-P.2	4 (64 Hrs.)	-	30	70	100
RTS- P3	Communication and Expository Writing	-	02 (64Hrs)	50	-	50
PSS-Pr.-II	SI-II Exposure to Multi-cultural Contexts in Schools	-	04 (4 weeks)	100	-	100
Total		18 (320Hrs.)	06	135+150	315	450+150

SEMESTER- III (14+10 CREDITS)

Course	Title	Credit (s)		Marks		
		Theory	Practicum	Internal Assessment	External Exam.	Full Marks
		(Teaching Hrs.)	(Hrs./weeks)			
PC-1	Introduction to Study of Education	4(64 Hrs.)	-	30	70	100
PC-9	Language across Curriculum	2(32 Hrs.)	-	15	35	50
RTS-1	Introduction to Research Methods	4(64 Hrs.)	-	30	70	100
PSS-B	Pedagogy of School Subjects-Gr.B-.P.1	4(64 Hrs.)	-	30	70	100
RTS Pr.-1	Dissertation	-	2 (64 Hrs.)	50	-	50
RTS Pr.-2	Research Seminar	-	2 (64 Hrs.)	50	-	50
PSS-Pr.III	SI-III Classroom Transaction and related activity	-	4 (6 weeks)	100	-	100
PSS Pr. IV	Interaction with Community	-	1 (1 week)	25	-	25
PSS-Pr. V	Discourse with Other Related Agencies	-	1 (1 week)	25	-	25
Total		14 (224 Hrs.)	10	105+ 250	245	350+ 250

SEMESTER- IV (18 +6 CREDITS)

Course	Title	Credit (s)		Marks		
		Theory (Teaching Hrs.)	Practicu m (weeks)	Internal Assessme nt	Externa l Exam.	Full Marks
PC-2	Philosophical Perspectives in Education	4(64 Hrs.)		30	70	100
RTS-5	Self Development	2(32 Hrs.)		15	35	50
TEC-1	Perspectives in Teacher Education	4(64 Hrs.)		30	70	100
PSS-2	Pedagogy of School Subjects-2.P.II	4(64 Hrs.)		30	70	100
SSC-1	School Education: Systems, Structures and Functions	4(64 Hrs.)		30	70	100
RTS Pr.-1	Dissertation		2 (64 Hrs.)	50	--	50
TEC-Pr	Attachment with TEIs (Elementary and Secondary TEIs)		4 (6 weeks)	100	--	100
Total		18 (288Hrs.)	6	135+ 150	315	450+ 150

SEMESTER- V (16 +8 CREDITS)

Course	Title	Credit (s)		Marks		
		Theory (Teaching Hrs.)	Practicum (Hrs./weeks)	Internal Assessment	External Exam.	Full Marks
PC-7	Contemporary Concerns in Education	4(64 Hrs.)		30	70	100
RTS-2	Advanced Research Methods	4(64 Hrs.)		30	70	100
TS	Theme-based Specialization (a.P.I)	4(64 Hrs.)		30	70	100
	Theme-based Specialization (b.P.I)	4(64 Hrs.)		30	70	100
RTS Pr.-1	Dissertation		2 (64 Hrs.)	50	--	50
PSS-Pr.III	SI-III Classroom Transaction and related activity(Contd.)		4 (6 weeks)	100	--	100
TS Pr.1	Theme Area Practicum		2 (2 weeks)	50	--	50
Total		16 (256Hrs.)	8	120+ 200	280	400+ 200

SEMESTER- VI (20 +4 CREDITS)

Course	Title	Credit (s)		Marks		
		Theory (Teaching Hrs.)	Practicum (Hrs./ weeks)	Internal Assessment	External Exam.	Full Marks
TEC-2	Issues and Research in Teacher Education	4(64 Hrs.)		30	70	100
SSC-2	Emerging Issues in Elementary Education	4(64 Hrs.)		30	70	100
SSC-3	Emerging Issues in Secondary and Senior Secondary Education	4(64 Hrs.)		30	70	100
TS	Theme-based Specialization (a. P.II)	4(64 Hrs.)		30	70	100
	Theme-based Specialization (b. P.II)	4(64 Hrs.)		30	70	100
RTS Pr.-1	Dissertation		4 (64 Hrs.)	50	50	100
TS Pr.2	Theme Area Practicum		2 (2 weeks)	50	--	50
Total		20 (320 Hrs.)	4	150+ 100	350+ 50	500+ 150

Name of the Course Coordinator: Dr. P.C. Tripathy, Mob. No. 943733427

Name of the Faculty Members:

1. Dr. J. Khamari
2. Dr. D. Mohapatra
3. Mr. Y. Mishra
4. Mr. S.K. Bag

SPECIALISATIONS OFFERED

APPENDIX-A Vide Rule-3(E)

SPECIALISATIONS OFFERED IN THE UNIVERSITY P.G. DEPARTMENTS FOR M.A/M.Sc./LL.M. COURSES

1. **Anthropology**
 1. Group-A-Social Anthropology
 2. Group-B-Biological Anthropology

2. **Chemistry**
 1. Advanced Organic Synthesis
 2. Advanced Analytical Chemistry
 3. Photophysical Process and Instrumentation
 4. Supramolecular Chemistry
 5. Chemistry of Nanomaterials
 6. Surface Chemistry & Catalysis
 7. Material and Energy Balance
 8. Industrial Process

3. **Business Administration**
 1. Finance 2. Marketing
 3. Human Resources 4. Production
 5. I.T. 6. Insurance & Risk Management

4. **Earth Sciences (Applied Geology)**
 1. Digital Image Processing and Geographic Information System
 2. Environmental Geology

5. **Economics**
 1. Mathematical Economics 2. Econometrics
 3. Environmental Economics 4. Agricultural Economics
 5. Industrial Economics 6. Demography
 7. Economics and Law 8. History of Modern Economic Analysis
 9. Economics of Insurance 10. Computer Application

6. **English**
 1. Comparative Literature & Translation Studies
 2. Non-British Novels in English

7. Environmental Science

1. Pollution Control and Environmental Bio-Technology
2. Soil Biology and Biotechnology

8. History

1. Archaeology
2. Museology
3. Cultural Heritage of India
4. Cultural History of Orissa

9. Home Science

A. Human Development and Family Studies

1. Adolescent & Youth
2. Gender & Development
3. Study of family in Society
4. Gerontology
5. Children with Special Needs

B. Food & Nutrition

1. Public Health Nutrition
2. Public Health Aspect of Malnutrition
3. Advance Clinical Nutrition
4. Entrepreneurship in Food Service
5. Food Processing

10. LAW (LL.M)

1. Business Law
2. Criminal Law
3. Family Law
4. Environmental Law
5. Intellectual Property Rights Law

11. Library & Information Science

1. Electronic Resource Management
2. Marketing of Information and Knowledge Management

12. Life Sciences

1. Ecology
2. Biochemistry
3. Microbiology
4. Physiology

13. Mathematics

1. Analytic Number Theory
2. Graph Theory
3. Operator Theory
4. Advance Complex Analysis
5. Discrete Dynamical System
6. Optimization Technique - 1
7. Wavelets
8. Algebraic Topology

- 9. Mathematical Modelling
- 11. Fourier Analysis

- 10. Cryptography

14. Odia

- 1. Modern Poetry
- 2. Fiction (Katha Sahitya)
- 3. Drama
- 4. Folklore
- 5. Comparative Literature
- 6. Santali Study

15. Physics (General Stream)

- 1. Electronics
- 2. Nuclear Physics
- 3. Condensed Matter Physics
- 4. Particle Physics
- 5. Computer Application

16. Political Science & Public Administration

- 1. Political Ideology
- 2. Human Right
- 3. Contemporary Political Thought.

17. Sociology

- 1. Rural Sociology
- 2. Sociology of Environment
- 3. Sociology of Health

18. Statistics

- 1. Applied Stochastic Processes
- 2. Actuarial Statistics
- 3. Discrete Mathematical Structure
- 4. Statistical Quality Control and Reliability
- 5. Statistical Genetics
- 6. Statistical Ecology
- 7. Inference in Stochastic Process
- 8. Statistics Pattern Recognition
- 9. Data Ware Housing and Data Mining

19. School of Performing Arts

- 1. MPA-(DNC) - Odissi / Sambalpuri
- 2. MPA-(DRM) - Acting / Direction

SAY NO TO SEXUAL HARASSMENT
BE A MAN RESPECT WOMEN

*For any information of general nature, contact
P.G. Council Office, Sambalpur University,
Jyoti Vihar – 768 019 (Tel. 0663-2430776)*

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TEACHERS OF THE P.G. DEPARTMENTS SAMBALPUR UNIVERSITY

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Associate Professor
Associate Professor & Head
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Asst. Professor (Stage-I)
Asst. Professor (Stage-I)
Asst. Professor (Stage-I)

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 Asst. Professor

Head

Asst. Professor & Coordinator

2430248

Professor & Head
 Asst. Professor

2431735

Reader & Head
 Reader (On lien)

Head

Reader (Contractual) & Coordinator

2430776**Head**

Coordinator

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

JOIN HANDS TO MAKE YOUR
CAMPUS RAGGING FREE

