



INTRODUCTION

SAMBALPUR UNIVERSITY INSTITUTE OF INFORMATION TECHNOLOGY (SUIIT)

The Sambalpur University Act was passed by the Orissa Legislature on 10th December, 1966 having territorial jurisdiction over 10 districts and a part of Angul district of Odisha. The University started functioning from 1st January, 1967 in a rented private building at Ainthapali, Sambalpur and was shifted to the present campus named Jyoti Vihar at Burla in 1973. At present it has 22 Departments covering science, literature, humanities and management studies. The University has a 600 acres campus just 4km. away from the famous Hirakud Dam and has 6 Gents hostels and 4 Womens hostels, well equipped Guest House, Gymnasium, Mini shopping complex and a 1000 seated Auditorium. The Departments, Hostels, Quarters are e-connected by OFC backbone with wi-fi internet facilities.

SUIIT has been established in the year 2010 as an autonomous constituent institute of the University in the line of IIITs to impart training and to have quality research programme relating to Information Technology and allied subjects. The training in the institute has been envisioned to be holistic academic programme which includes training in humanities, management sciences and basic sciences besides the relevant technical subjects. SUIIT is an unique venture to make use of the decades of rich academic experience and achievements of the University in diverse fields for nurturing the young minds in the contemporaray globalised environment where the demand is for innovation, research and technical skill of international standard. The programmes of SUIIT to be started from the session 2010-2011 are the following;

- (1) B.Tech. (Computer Science & Engineering)
- (2) B.Tech. (Electronics & Communication Engineering)
- (3) M.Sc. (Bioinformatics)
- (4) M.Sc. (Electronics)
- (5) M.Sc. (Computer Science)
- (6) M.Tech (Computer Science)

Infrastructure

SUIIT, being located at Sambalpur University, Jyoti Vihar, avails the facilities of JyotiVihar Campus such as campus-wide networking, well-stocked B. Behera Library, Online Digital Library through UGC Infflibnet and well-established PG Departments of Mathematics, Physics, English, Management Studies, Social Science and Life Science. The University has sprawling campus with rich flora and fauna which provides a unique natural environment for academic pursuits. The University campus is active in cultural, sports and extra-curricular activities that is normally not available in other similar IT institutions. The infrastructure for SUIIT is being built such as the Institute building, library, hostels etc. The university's Computing Labs such as Networking Lab with CISCO equipments, Database Lab with Oracle and Programming Lab in collaboration with Sun Java are few special infrastructure that are already developed for IT students of the University and for the students of SUIIT. The SUIIT students and faculty will have the unique opportunities of working in the environment of a University and a Professional Institute. In addition to the experienced faculty of the University, many visiting faculty from IITs/TIFR/ISI/Central Universities/Software Companies/Foreign Institutions will be invited to interact with students. Students will have summer internship programme and will be exposed to advance mode of education via e-class rooms and video conferencing.



The Institute will offer adequate personality development programme and will have placement cell. The students may be allowed to work in various research projects for few hours after one year of joining without affecting their studies. On the whole the aim of the institute will be to optimise the creativity of a student to make him competent at the international level.

1. PROCEDURE FOR OBTAINING THE ADMISSION APPLICATION FORM

Admission application forms of SUIIT can be obtained from **The Administrative Officer, P.G. Central Office, Sambalpur University, P.O.: Jyoti-Vihar, Dist-Sambalpur(Orissa) Pin-768019** during office hours on working days.

Mode of Payment:

By Post	By Cash (in person)	Down Load Form from www.suniv.ac.in
Rs.500 DD*	Rs. 450	Rs. 450 in DD*

*Bank Draft should be drawn in favour of SUIIT, Sambalpur University.

A self addressed envelope of size 13"X8" is to be enclosed alongwith the application. **Forms will be available from 5th May 2010. The last date of issue of application form for M.Sc. and M.Tech. Course is 5th June 2010, 12.30 PM. The last date of issue of application form for B.Tech Course is 15th June 2010.**

Candidates who appeared in the qualifying examination in 2010 are also eligible to apply for consideration of provisional admission. All candidates who are offered provisional admission will be required to produce the proof of having passed the qualifying examination to the Institute latest by 31 August 2010, failing which such provisional admission will stand cancelled. Such students will be given minimum percentage of eligibility, while preparing the merit list. If a candidate is found ineligible at a later date, even after admission to SUIIT, his/her admission will be cancelled without refunding the admission amount. All admissions will be subject to verification of facts from the original certificates/documents of the candidates. The decision of the concerned authorities regarding eligibility of any candidate shall be final.

2. PROCEDURE FOR SUBMISSION OF APPLICATION FOR ADMISSION

Completed application in all respects may be submitted/sent to the Administrative Officer, SUIIT, Sambalpur University, Jyoti Vihar-768019, Sambalpur(Orissa). Separate application should be submitted if one applies for more than one course except B.Tech. Programme. For B.Tech. Programme one can submit one application giving his choice of preferences.

The applicant should check the following before submission/despatch of his /her application.

- (i) Attested copies of the Mark sheets and Certificates of all examinations starting from H.S.C should be submitted alongwith the form. Applicants for B.Tech. course have to submit AIEEE/ OJEE/IIT JEE Score card, date of entrance test and the time limit of the entrance test validation date.
- (ii) Original Cash Receipt of Rs.450/- or Rs.500/- as the case may be in support of purchase of application form. In case of downloaded application form, Bank Draft for Rs.450/- as mentioned above.
- (iii) In addition to (ii) each applicant (if applicable) must submit Entrance Test fee in the form of Bank Draft or Banker's Cheque for Rs.400/- (Rupees Four hundred) only drawn in favour of the SUIIT, Sambalpur University and payable at State Bank of India, Jyoti Vihar Branch (Code No.6672).



- (iii) An attested copy of the Caste Certificate in respect of SC/ST candidates from a Revenue Officer not below the rank of a Deputy Collector or MLA or MP or DWO, in absence of which the candidate will not be eligible to get concession allowed to SC/ST candidates.
- (iv) An attested copy of the certificate from CDMO regarding his/her disability for 50% or more (in case of Physically Handicapped Candidates).
- (v) Two attested recent passport size coloured photographs of the candidate.
- (vi) The envelope containing the application complete in all respect must be superscribed "Application for Admission in _____ course, SUIIT, Sambalpur University.
- (vii) Two self-addressed stamped envelopes
- (viii) **Last date for submission of application:** The application duly filled in and with all the required documents shall reach Administrative Officer, SUIIT, Sambalpur University **on or before 15th June for M.Sc and M.Tech programme and 30th June for B.Tech Programme respectively.**

3. PROGRAMME FOR THE ENTRANCE EXAMINATION - 2010

The Entrance Examination for admission will be held during the period from 05.07.10 to 08.07.10 as per the following programme;

Date	9.30 A.M. to 11.30 A.M. followed by Viva-Voce
05.07.10 Monday	M.Sc. (Electronics)
06.07.10 Tuesday	M.Sc. (Computer Science)
07.07.10 Wednesday	M.Sc. (Bioinformatics)
08.07.10 Thursday	M.Tech (Computer Science)

4. INTIMATION

The list of selected candidates will be notified in the University website. Intimation to the selected candidates will be sent by Post and will be notified in notice boards of SUIIT and P.G. Central Office.

5. DOCUMENTS REQUIRED FOR ADMISSION

Admission to different Course will be made by post or in person. The selected candidates must submit the following documents for admission to the Administrative Officer, SUIIT, Sambalpur University.

- (i) College Leaving Certificate in original from the Institution last attended;
- (ii) Conduct Certificate in original from the Institution last attended;
- (iii) Original Mark Sheet/Certificates starting from H.S.C to last qualifying examination.
(In case of +3 Examination, Mark sheet of First Examination and Final Examination are to be submitted separately, if detailed marks are not provided in the final mark sheet).
- (iv) Migration Certificate in original for candidate from other University.
- (v) Two attested passport size coloured photographs.
- (vi) Original Caste Certificate for SC/ST candidates.
- (vii) Required fees specified in the Intimation Letter.

Admission shall not be made into any Course beyond 31 August 2010.



6. RESERVATION

(i) 12% and 8% of seats in each course are reserved for candidates belonging to Scheduled Tribes and Scheduled Castes, respectively. However, the unfilled seats required for ST candidates will be filled up by admitting SC candidates and vice-versa.

One seat in each department will be reserved for Physically Handicapped candidates. Such a candidate is required to produce a certificate from the C.D.M.O. regarding his/her disability for 50% or above. The SUIIT may constitute a committee of specialists from V.S.S Medical College to ascertain their claims.

General Information for students of SUIIT

Academic Session

The academic session consists of two Semesters and the Vacations. The academic session is from June to May. Each Semester consists of about eighteen weeks, including the mid-semester recess of one week, two mid-term examinations of one week, and the end-semester examination of one week. In other words, each semester consists of about 15 teaching weeks.

Academic Calendar

The exact dates for the important academic events during an academic session shall be specified in the Academic Calendar of the Institute. Some of the important events for which the dates are specified in the Academic Calendar of the Institute are:

Orientation , Registration , Late Registration, Commencement of Classes, Change of Registration, Submission of Documents, Examinations , Submission of Grades , Conversion of "I" Grades , Authentication of Grades, Vacations , Mid-Semester Recesses.

Registration

At the beginning of each semester, every student shall register, on the dates specified/notified for the courses he/she intends to pursue during the semester. The choice of courses for which a student can register is limited by the courses being offered in the semester and also the prescribed curriculum of the Programme. The semester-wise structure of the curriculum shall show clearly the normal load for which a student is expected to register during various semesters. However, the Institute may permit a student to register for one additional course to either enrich his/her knowledge, or to clear the backlogs.

The registration procedure shall be complete when a student has:

- filled in the registration form mentioning clearly the courses intended to be pursued during the semester and countersigned by the Dean(Acad).
- paid all the outstanding dues including the dues of the current semester.

At the end of the semester, a grade is awarded, in a course, to only those students who have registered for that course.

Late Registration

A student who fails to register on the prescribed day of registration, due to some compelling reasons, may register on the Late Registration Day on payment of the prescribed late registration fee. Students who register late, may start attending the classes even before the Late Registration Day.

Cancellation of Registration

The registration of a student, from all the courses, may be cancelled automatically if he/she is absent for a period of two or more weeks, at a stretch or otherwise, during a semester. The registration, in full or part, of a student may also be cancelled on disciplinary considerations.



Auditing of Courses

In addition to the courses for which a student is registered, he/she may also audit a course with the permission of the Instructor-in-Charge of the course, provided there is no time table clash. The student is not supposed to register for such a course. Therefore, the Grade Report will have no indication, whatsoever, about the courses audited by a student. However, the Instructor-in-Charge of the course may issue a certificate to the student on successful completion of the course.

Teaching

The medium of instruction shall be English. Only approved courses shall be offered during any semester. Any approved course, whenever offered during a semester, shall be conducted by an Instructor-in-Charge of the course. Once the Instructor-in-Charge of a course is designated, he/she shall be responsible for teaching the course keeping the suggested course contents in mind, setting the question papers and holding the examinations as per schedule, evaluating the performance of the students, and awarding the letter grades at the end of the semester. Normally, the letter grades awarded to the students registered for a course shall be submitted by the faculty within the prescribed time limit.

Evaluation

The evaluation of students, in any course, shall be a continuous internal process. Normally, the performance of students in the mid-semester examinations, end-semester examination, quizzes/short tests, tutorials, assignments, laboratory work, shall be used to award the letter grade at the end of the semester. The relative performance of students shall be considered while awarding the letter grades. The Instructor-in-Charge of the course shall announce the evaluation strategy at the beginning of the course. The mid-semester examinations and the end-semester examination shall be held on the dates announced in the Academic Calendar.

Letter Grades

Currently, six letter grades shall be used to evaluate the performance of students in each course. These six letter grades and their numerical equivalents on a 10-point scale are given below.

Letter Grades	Numerical Equivalents
A	10
B	8
C	6
D	4
E	2
F	0

At the end of the semester, the Instructor-in-Charge of a course shall examine the relative performance of students registered in the course, as per the evaluation strategy announced at the beginning of the semester, and shall award one of the six letter grades to each student, that he/she deserves.

Repetition of a Course

A student who obtains an 'F' grade in a compulsory course, must repeat the course in some subsequent semester(s) till he/she obtains a grade 'E' or better in that course. A student who obtains an 'F' grade in an elective course, may either repeat the course in some subsequent semester, or else substitute the course by some other elective course. A student, who obtains an 'E' or 'D' grade in a course, may choose to repeat that course in any subsequent semester to improve his/her CPI. Whenever a student registers for repeating a course, the earlier grade shall be ignored and the grade obtained on repetition shall be used for the calculation of the CPI (even if the student obtains a worse grade on repetition of a permissible course).

**Incomplete Grade 'I'**

In case the Instructor-in-Charge of a course does not have adequate information to evaluate a student, he/she may decide to award grade 'I', the Incomplete Grade. The Instructor-in-Charge must replace any 'I' grade by one of the six letter grades by the date specified in the Academic Calendar.

Semester Performance Index (SPI)

The SPI of a student is a numerical indicator of his/her academic performance during a semester. The SPI of a student is the weighted average of the numerical equivalents of the grades earned by the student in a semester, the weights being the approved units of the respective courses.

Cumulative Performance Index (CPI)

The CPI of a student is a numerical indicator of his/her academic performance in all the courses that he/she has registered up to and including the last completed semester. Whenever a student is permitted to repeat or substitute a course, only the new grade is used in the computation of CPI (the original grade is ignored).

Grade Report

At the end of each semester, a copy of the Grade Report is issued to each student. The Grade Report incorporates the list of all the courses taken up to the last completed semester along with the grades obtained in each course.

Withholding of Grades

The Grade Report of a student may be withheld for various reasons. In case there is a case of indiscipline pending against a student, his/her Grade Report will be withheld. The Grade Report of a student may also be withheld if he/she fails to clear the dues pending against him/her.

Leave of absence

Students are entitled to avail the mid-semester recess and the summer/winter vacation as prescribed in the Academic Calendar. Apart from this, leave of absence is discouraged for all registered students. However, for genuine reasons, a student may be granted leave of absence, during a semester, as follows.

On medical grounds: maximum of 15 days

On other valid grounds: 5 days.

A student, on authorized medical leave, is required to submit a certificate from a Registered Medical Practitioner to the effect that he/she is fit to resume his/her studies. The registration of a student is cancelled if he/she is absent from the Institute for more than 15 days, at a stretch, during a semester (even with permission). A student can proceed on leave, only after his/her request has been granted by the Dean Academic. Otherwise, it will be considered as unauthorized absence, which may entail disciplinary action.

Ragging

The Jyoti Vihar campus strictly implements antiragging programme and the University as a whole and all its constituents units such as SUIIT will take serious disciplinary action against students indulged in ragging.



Faculty

SUIIT is in the process of recruiting faculty members. The following distinguished scholars are associated with the institute academically or otherwise.

Prof Arun K Pujari, Vice-Chancellor of the University
Prof Prasanna Sahoo, University of Kentucky, Louiseville, USA
Prof K S Naik, University of Waterloo, Canada
Prof Abdul Sattar, Griffith University, Australia
Dr S K Udgata, University of Hyderabad
Shri S K Dash, LNM IIT, Jaipur
Shri Priyadarshi Tripathy, USA
Dr Vineet Nayar, University of Hyderabad, Hyderabad
Prof. Shashanka Sekhar Pujari, Prof. & HOD, Embedded System & Design and Advanced Microelectronics & VLSI Design, IIIT (I Square IT), Pune
Prof. S. Bapi Raju, University of Hyderabad

Contact

Administrative Officer
SUIIT
Lecturer Hall Complex, near Chemistry Department
Sambalpur University, Jyoti Vihar
Sambalpur,-768019

Temporary Office: New Computer Science Building (Near MBA Department)

Email.. suiit@suniv.ac.in

Fax.. (0663) 2430158

Phone.. (0663) 2430158

Web.. www.suniv.ac.in

INTERPRETATION:

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

Whom to Contact

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3. Dr. N.R. Satpathy
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4. Er. D.K. Mahalik
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**M.Sc. COMPUTER SCIENCE**

The 2-year M.Sc. Computer Science programme is designed with the aim to develop core competence in Computer Science and prepare the students of BSc(Computer Science) to carry out development work, as well as take up challenges in research in two years without repeating the courses that are already covered at BSc level.

1. MINIMUM ELIGIBILITY: B.Sc Honours in Computer Science/Computer Application/Mathematics/Physics/ Statistics/Electronics/Information Technology or any Pass Graduate with one or more subjects mentioned above as a core subject a minimum of 45% marks or a Bachelor in Engineering or Technology in Electronics/Computer Science / Electronics and Telecommunications.

2. SELECTION CRITERIA: The selection will be done on the basis of written, career and viva with 60%, 30% and 10% weightage, respectively. Absence of a candidate in either written or viva examinations or both shall liable to disqualify him/her for admission

	1 st	2 nd	3rd
HSCE	6	4	2.5
+2	8	6	4.5
+3	15	12	8
Distinction	1	1	1
Professional Degree (B.E./B.Tech. etc.)	≥7.5 (OGPA) or First class honours	<7.5 and ≥6.0 Or First class	Pass with <6.0
	16	13	10

3. NO. OF SEATS: 28

4. FEE STRUCTURE:

Course fees	Rs.15,000 per semester
Development fees	Rs.3500 per semester
Professional society membership fees	Rs1500 per annum
Caution money (refundable)	Rs 1000
Admission and other institutional fees	Rs 6500

N.B. Hostel fees, Bus fare and Examinations fees as per actuals

Resources: Dedicated computer lab, Networking Lab, JAVA and Database Lab.

Highly qualified core faculty and visiting/adjunct faculty from other reputed institutes

**M.Sc. BIOINFORMATICS****SCOPE OF BIOINFORMATICS:**

Bioinformatics is emerging as the hottest field in the last decade covering a broad area of subjects of biological sciences, physical sciences, chemical sciences, mathematical sciences, engineering and technology with computer aided tools. The field provides a wide scope for job opportunities in India and abroad as well. Bioinformatics is expected to substantially impact on scientific, engineering and economic development of the world. The last decade encompasses the full fledged growth and development of the subject in the field of science and engineering. The large size of biological datasets, the inherent complexity of biological problems and the ability to deal with error-prone data result in special requirements, such as large memory space and huge computation time. Therefore, it opens up a variety of job prospects in the field of molecular biology, proteomics, genomics, medical applications, agriculture, and engineering to attract the students after successful completion of a degree in the field.

- 1. MINIMUM ELIGIBILITY** : Any Science /Engineering/Medical and Allied Science Graduate with at least 45%marks
- 2. SELECTION CRITERIA** : The selection will be done on the basis of written, career and viva with 60%, 30% and 10% weightage respectively. Absence of a candidate in either written or Viva examinations or both shall liable to disqualify him/ her for admission.

	1 st	2 nd	3 rd
HSCE	6	4	2.5
+2	8	6	4.5
+3	15	12	8
Distinction	1	1	1
Professional Degree (B.E./B.Tech. etc.)	≥ 7.5 (OGPA) or First class honours	<7.5 and ≥ 6.0 Or First class	Pass with <6.0
	16	13	10

- 3. NUMBER OF SEATS:** 16

4. FEE STRUCTURE:

Course fees	Rs.20,000 per semester
Development fees	Rs.3500 per semester
Professional society membership fees	Rs1500 per annum
Caution money (refundable)	Rs 2000
Admission and other institutional fees	Rs 6500

N.B. Hostel fees, Bus fare and Examinations fees as per actuals

Resources: Bio-informatics LABs , Dedicated computer lab with internet facility
Highly qualified core faculty and visiting/adjunct faculty from other reputed institutes



M.Sc. ELECTRONICS

The two years M.Sc Electronics programme has been designed to make student competent in

- (1) IT skills
- (2) Diverse programming language
- (3) Advanced electronic devices and embeded systems
- (4) Quantum physics and latest communication engineering topic
- (5) Design and implementation of projects with reserach/industrial orientation.

1. Eligibility

- (i) Hons. in Physics/Electronics/Computer Science with Physics/Mathematics/Statistics/Electronics/ Chemistry/Computer Science as Pass subject, or
- (ii) B.Sc./B.E./B.Tech in Electronics/Information Sc. and Technology/Electrical Engg. and Applied subjects
- (iii) Pass Graduate with atleast 45% marks in aggregate and having any two subjects mentioned in (i) above.

2. Selection Criteria: The selection will be done on the basis of written, career and viva with 60%, 30% and 10% weightage respectively. Absence of a candidate in either written or Viva examinations or both shall liable to disqualify him/ her for admission

	1 st	2 nd	3rd
HSCE	6	4	2.5
+2	8	6	4.5
+3	15	12	8
Distinction	1	1	1
Professional Degree (B.E./B.Tech. etc.)	≥ 7.5 (OGPA) First class Honors	<7.5 and ≥ 6.0 First class	Pass with <6.0
	16	13	10

Proteomics protein

3. No. of Seats 20 seats

4. Fee Structure

Course fees	Rs.5,000 per semester
Development fees (one time)	Rs.1500
Professional society membership fees	Rs1500 per annum
Caution money (refundable)	Rs 1000
Admission and other institutional fees	Rs 6500

N.B. Hostel fees, Bus fare and Examinations fees as per actuals

Resources: Analog, Digital Electoinics and Microprocessor LABs
Dedicated computer lab with internet facility
Highly qualified core faculty and visiting/adjunct faculty from other reputed institutes

**M.TECH. (COMPUTER SCIENCE)**

M.Tech. is a 4 semester programme having two semester course work and two semester project work.

1. Minimum Eligibility:

First Class B.E./B.Tech. or First Class M.Sc (Mathematics), M.Sc (Physics), M.Sc(Statistics), M.Sc (Electronics), M.Sc (C.S), M.Sc(I.T) or First Class M.C.A. student who have completed the course as a regular student only. SPONSORED CANDIDATES- In addition to the eligibility criteria for the course, Teachers of university/colleges having at least two years teaching experience or a software professional with at least three years of experience are eligible under the sponsored quota.

2. Selection Criteria:

The selection will be done on the basis of written, career and viva with 60%, 30% and 10% weightage respectively. Absence of a candidate in either written or Viva examinations or both shall liable to disqualify him/ her for admission .

	1 st	2 nd	3 rd
HSCE	3	2	1.5
+2	6	4	2.5
+3	8	6	4
Distinction	1	1	1
M.Sc.	12	9	7
Professional Degree (B.E./B.Tech. etc.)	≥ 7.5 (OGPA) First Class Honors	<7.5 and ≥ 6.0 First Class	Pass <6.0
	21	16	12

3. No. of Seats: 24 seats (20 regulars and 4 sponsored)

4. Fee Structure:

	Regular Candidate 20 seats	sponsored Candidate 4 seats
Course fees	Rs.30,000 per semester but Rs.24,000 per semester for this batch	Rs.40,000 per semester but Rs.32,000 per semester for this batch
Development fees	Rs.3,500 per semester	Rs.3,500 per semester
Professional society membership fees	Rs.1,500 per annum	Rs.1500 per annum
Caution money (refundable)	Rs.1,000	Rs.1,000
Admission and other institutional fees	Rs.6,500	Rs.6,500

N.B. Hostel fees, Bus Fare, Placement fees and Examinations fees are as per actuals

5. Other Special Features of the Course:

- The M.Tech course is supported by several labs such as Networking Lab (CISCO), Database lab (Oracle), SUN Java Lab, Statistics Computing Lab etc. in addition to dedicated computer lab with internet facility.
- The purpose of launching this course is to provide advance training in Computer Science and Computer Technology and to build skilled manpower in Computer Science. It is specially designed to cater to the growing needs of IT industries.

▪ Special effort will be made to find placement also with Campus interview. The faculty will be drawn from Nationally reputed institutes without any compromise in quality of the course and placement.

Visiting Professor from NIT Dugapur/BIT MESRA/ISI/IITs/Central University Hyd. normally teach the elective courses.



Course Structure

M.Sc. Program in Computer Science, Electronics, Bioinformatics:

The SUIIT will offer 2-year (4 semesters) MSc programs in IT related subjects. Initially it will offer MSc in Computer Science, MSc in Electronics and MSc in Bioinformatics.

- **Compulsory Core Courses:** Courses common to all MSc programmes
- **Compulsory Program Courses:** Courses compulsory to particular MSc
- **Program Electives:** Courses offered as elective in a particular MSc
- **Soft Skill Electives:** Courses offered for soft skills
- **Open Electives:** Courses offered in different PG Dept of the University

A student of MSc in one branch can take the compulsory subject of the other branch as an elective. Thus a M.Sc. Computer Science student can take courses of Bioinformatics or of Electronics based on his interest. Similarly any M.Sc. Bioinformatics student can learn courses of Computer Science or electronics. This will help the students to plan their career according to the employment requirements.

Compulsory Core Courses for all MSc programmes will be consisting of courses of Statistics, Mathematics, Electronics, Computer and soft skills. The major courses under this category are the following.

Statistical Methods; Mathematical Foundation; Discrete Maths & Graph Theory; Digital Electronics ; Computer Programming; Computer Organisation & Architecture; Database Concepts; Environment and Ecology; and IT Workshop.

Major Compulsory Program Courses for M.Sc. Computer Science:

Data Structures; Design and Analysis of Algorithms; Operating Systems; Theory of Computation; Computer Networks; Software Engineering and Artificial Intelligence

Major Compulsory Program Courses for M.Sc. Electronics:

Signals, Systems and Control; Semiconductor Devices and Circuits; Digital Circuits and Systems; Principles of Communication; Probability and Stochastic Processes; Digital Communication; Digital Signal Processing; Engineering Electromagnetics; Microprocessors and Interfaces, Embedded Systems, Network Analysis and Control.

Major Compulsory Program Courses for MSc Bioinformatics:

Basic Biology, Structural Biology, Taxonomy and Phylogeny, Genetic Information on flow of processing, Biodiversity informatics, Protein Engineering, Chemoinformatics, Genome to Drug and Vaccine discovery, Genomics, Proteomics, Biological Database, Parasite Bioinformatics, Metabolomes and Metabolic Pathway Engineering, Molecular Modelling and Drug Designing.



COURSE STRUCTURE FOR M.TECH. COMPUTER SCIENCE PROGRAM

M.Tech. Computer Science is a four semester programme out of which last two semesters have Project Work. Some of the core courses and electives are given below, however depending on availability of expertise and demand new courses can be offered also. The Programme is based on continuous and rigorous training.

MAJOR CORE COURSES

Data Structure and Algorithms, Advanced Computer Organization and Architecture, Mathematical Foundation of Computer Science, Computer Networks, Operating Systems and System Programming, Database Management System.

MAJOR ELECTIVES

Principles of Programming Language, Theoretical Computer Science and Automata, Embedded Systems, Digital Image Processing, Machine Learning, Mobile Ad Hoc and Sensor Networks, Cryptography and Network Security, Pattern Recognition, Computer Graphics, Natural Language Processing, Mobile Computing, Computer Simulation and Modeling, Financial Information System, Data Mining.

COURSE STRUCTURE FOR B.TECH. PROGRAM

Major Compulsory Core Courses:

Physics, Mathematics, Electronics, Computer Programming, Environment and Ecology, IT Workshop etc.

Major Compulsory Program Courses for ECE:

Digital Circuit Systems, Semiconductor Devices, Signal System and Controls, Principles of Communication, Probability Theory and Stochastic Process, Digital Signal Processing, Computer Networks, Microprocessors and Interfaces, Engineering Electromagnetics, Microwave and Optical Communication.

Major Compulsory Program Courses for CSE:

Computer Organisation and Architecture, Discrete Mathematical Structure, Database Management System, Operating System, Design and Analysis of Algorithms, Theory of Computations, Computer Networks, Compiler Design.

Course Structure of SUIT is an evolving process and will be changed time to time.



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