



Information Technology
Management and Commerce
Journalism and Mass Communication
Biotechnology and Bioinformatics
Telecom Technology
Fashion Design

Prospectus 2008

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For successful careers.

SMU

Sikkim Manipal University

Directorate of Distance Education

the world of manipal

The Manipal Education and Medical Group is one of India's premier education and healthcare services provider and has been providing quality education for over 50 years. It is the nucleus of 53 educational institutions with over 1,00,000 admissions.

Manipal in Education

- 2 Universities
- 9 Campuses
- Over 30 Professional Colleges
- Over 100,000 Students
- 300,000 active Alumni
- Students from over 51 Countries



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Message



Dr Ramdas M Pai

Pro Chancellor

Dear Student,

Thank you for your interest in the Sikkim Manipal University of Health, Medical and Technological Sciences (SMU). Since its inception in 1995, the University has focused on providing high quality education to students.

Apart from regular on-site classroom programs, SMU also offers career oriented programs via its Directorate of Distance Education. The programs offered cover various disciplines like Information Technology, Management, Bioinformatics, Biotechnology, Fashion Design, Mass Communication and Journalism, Commerce, Allied Health Sciences and many more. The lectures for these programs are delivered at our recognized Learning Centres which are connected to our studios over VSAT and thereby creating for you a virtual classroom environment.

Our faculty is committed to excellence in teaching, learning and scholarship. They understand the students we serve and they come to the classroom with extensive academic and real-world experience. Your education is further strengthened by the diversity of the faculty and student body. This makes for a marvelous exchange of ideas and more effective learning.

I hope you find the information in the prospectus useful. Should you require additional assistance, please contact smuhelpdesk@manipalu.com.

I look forward to welcoming you to the World of Manipal!

Dr Ramdas M Pai

Pro Chancellor

Sikkim Manipal University of Health, Medical and Technological Sciences

Message



Dr K Jayakumar

Vice Chancellor

Dear Student

I thank you for choosing the Sikkim Manipal University of Health, Medical and Technological Sciences.

The University draws upon the expertise of the Manipal Education and Medical Group, which is an established global leader in higher education and health care for over five decades. The Group's education network comprises 2 Universities, 9 campuses, 30 professional colleges, 100,000 students and 300,000 active alumni.

Sikkim Manipal University was established in 1995, and is a unique joint venture between the Government of Sikkim and the Manipal Group. The University offers Distance Education Program as part of its effort to bring education to the masses, and fulfill the growing demand for technical and management professionals. Manipal Universal Learning (Manipal U), the Learning Resource Development Center of the University supports the delivery of career-oriented programs at the Diploma, Bachelor's, Post Graduate Diploma and Master's levels through a wide network of University recognized Learning Centers. Our focus is on making sure that our students receive an education that is not just of high quality but relevant to today's Industry and highly competitive global market place.

Our programs combine highly researched curriculum by the University integrated with industry relevant concepts and practices. The University offers a unique blend of theoretical and cutting edge inputs to students, making them technically well rounded professionals.

We hope you will find our programs educative and professionally rewarding.

Dr K Jayakumar

Vice Chancellor

The University

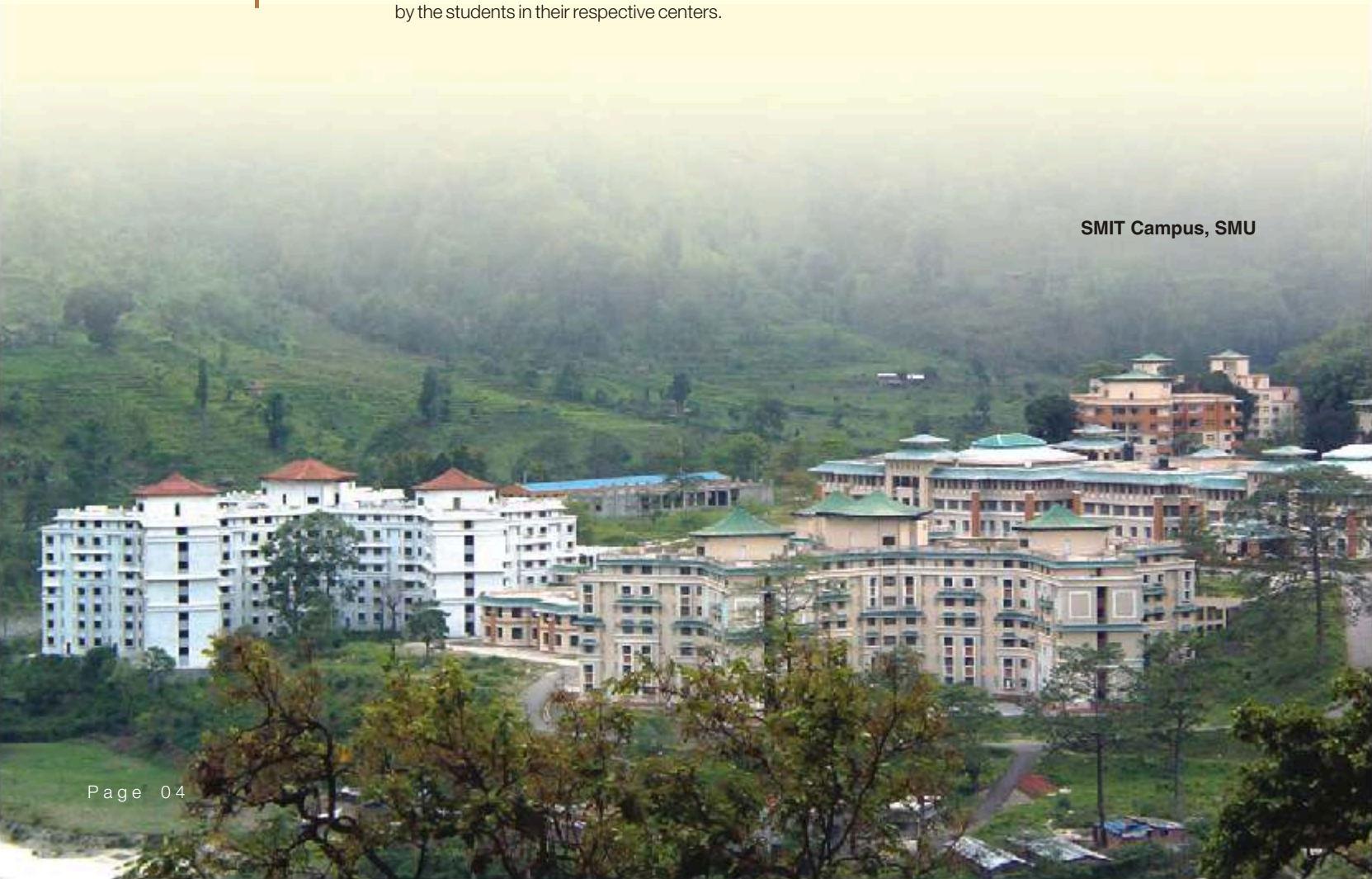
The Sikkim Manipal University of Health, Medical and Technological Sciences, Gangtok is incorporated under the state legislative Act (Act IX of 1995) of the Government of Sikkim. It is recognized by the Union Ministry of Human Resources Development and by the University Grant Commission. SMU's Degrees/Diploma/Certificates are recognized by all members of Association of Indian Universities (AIU). The statute of SMU Permits the University to offer programs on a distance mode across the country and abroad. SMU has received approval from the Distance Education Council to offer program on distance mode.

The University was set up in partnership between the Manipal Education and Medical Group and the Government of Sikkim with the objective of offering quality education to students and working professionals. Apart from regular on-site programs, the University offers many career oriented programs via distance education. These Programs are offered as part of its effort to bring education to the masses and fulfill the growing demand for professionals. Manipal Universal Learning, which is the Learning Resource Development Center (LRDC), for SMU, Supports the delivery of these programs.

The programs include Master's, Bachelor's, Diploma and Post Graduate Diploma programs. The main advantage that distance education offers students is in providing requirement-based and career oriented programs, incorporating flexibility in the choice of programs, delivery systems and processes. The University uses a strong nationwide network of Learning Centers to deliver its programs. This enables a student to choose a Learning Centers that is easily accessible to him/her.

These Learning Centers act as access points for the purpose of advising, counseling or rendering any assistance required by the students in context of the University's distance education programs. To improve the quality of lectures and faculty presentations, the University recognized Learning Centers have been equipped with an effective interactive distance learning system that makes use of VSAT technology. These presentations, broadcast from studios at Manipal, Bangalore and Mumbai can be seen and heard live by the students in their respective centers.

SMIT Campus, SMU



Taking Distance out of Education

Manipal uses VSAT technology to deliver interactive quality education to students, thereby breaking the barriers of time, geography and distance.

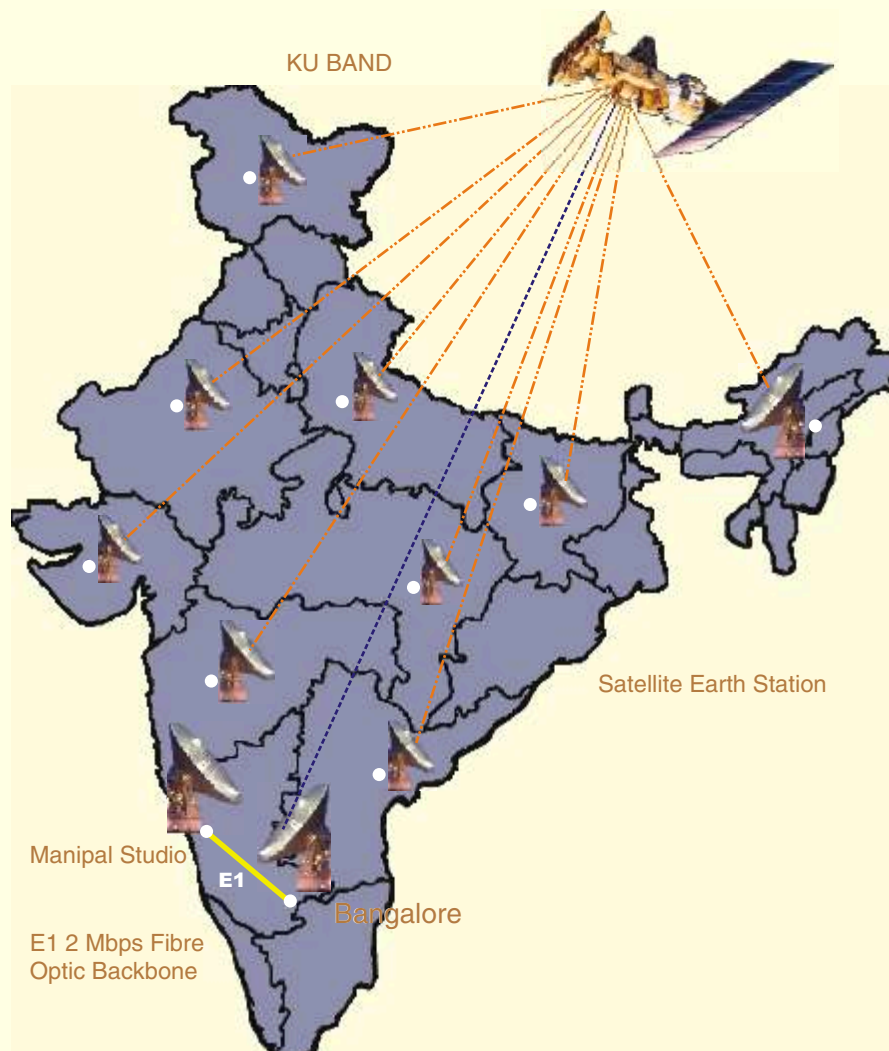
VSAT or Very Small Aperture Terminal is a compact software-driven equipment used for reliable transmission of video and audio data via satellite. It can be plugged into an existing terminal equipment and does not require additional personnel or technology for its operations, thereby providing virtually error-free digital data communication.

The studios located at Manipal, Mumbai and Bangalore are equipped with the most sophisticated video, audio and broadcasting systems. These include studio cameras, video mixers, editing equipment and interactive software systems, which create virtual classrooms. The broadcasts are received through remote station equipment stationed at the Learning Centers.

A faculty member delivers the lecture in the studio and students can see and hear the lecture, ask and answer questions. This is done either by using a PC or a TV screen in the classroom at the Learning Center. The lecture therefore can be simultaneously attended by thousands of students at different Learning Centers across the country.

The faculty member formulates questions which are shared with the students during the lecture or through the internet. The students answer these questions either by email or by voice or by using a text based chat software. Learning material is also housed on servers and can be accessed by students for future reference.

Virtual classrooms therefore create an interactive environment, providing quality training to a large number of students in geographically dispersed sites.



IT, Management and other career areas

Education is a primary ingredient and also a key to success in any profession. With a booming economy and a young population, there is a tremendous need for quality education to equip this population with skills to handle assignments that spring from such a growing economy like ours.

The need of the day for any educational institution is to provide education that encompasses world class curriculum and is also industry focused.

Providing quality learning in higher education is becoming a major focus area in the country not only with the Government but also increasingly with educational institutions.

Sikkim Manipal University of Health, Medical and Technological Sciences has been addressing this growing need by continuously upgrading and enhancing the quality, curriculum, methodology and practical exposure in its courses offered to its distance learning students.

Information Technology has been the greatest agent of change and promises to play an even bigger role in the coming years. Information Technology is changing every aspect of human life - be it in communication, trade, manufacturing, services, culture, entertainment, education, research, defence or global security. It is breaking age old barriers and building new connections in a fast emerging global village and will soon become the chief determinant in the progress of nations, communities and individuals.

The Government of India has recognized the potential of Information Technology in the all-round development of the nation. The National Agenda for Governance has identified Information Technology as one area where India can quickly establish global dominance. Hence, it has mandated the Government to take the necessary policy and program related initiatives to facilitate India's emergence as an Information Technology Superpower in the shortest possible time. Information Technology can prove to be a treasure trove with tremendous pay-offs in terms of wealth creation and generation of high quality employment.

The recommendations of the National Task Force on Information Technology cover a wide spectrum of issues. It includes telecommunications, finance, banking, revenue, commerce, electronics, human resource development, defence and rural development. It also addresses critical national needs in the areas of information infrastructure, internet access, software development and exports, hardware manufacture, electronic commerce, research in IT, manpower training and education.

Today, IT and telecom have blended into a single integrated system. This acceleration in service levels could be extended to every citizen and multiplied across user segments. The growth of IT and telecommunications in India has proved that data processing into information is a profitable business proposition. By the end of this decade, the entire country will have IT-enabled services in the fields of customer interaction, finance and accounting, data search and integration, e-education, tele-medicine and e-governance. Banking and Financial Services and Insurance (BFSI) continues to be the largest vertical, garnering 39 percent of software development. Service exports, retail, manufacturing, healthcare and telecom services are the new emerging areas.

India is also emerging as a hub for application outsourcing, custom application development, embedded software, offshore product development, research and development. India's offshore services, which contributed over \$16 billion to the country's export and is expected to reach \$50 billion in 2009-2010. The country's e-Governance policies, with a proposed outlay of \$7.5 billion, will also result in the growth of such projects in India.



The software industry in India is nearly \$30 billion strong, with a flat domestic market of \$ 6 billion contributing to 23 percent of the nation's exports. In the next two decades, the nation's GDP is expected to double - the software industry's contribution is expected to increase at least ten fold. The software and hardware industries will become a formidable component of the nation's wealth. India has tremendous market potential in the areas of tele-education, tele-medicine, infotainment, e-governance and other relevant fields. If provided with the much needed thrust, Information Technology can touch every single individual of India's one billion populace.

While we see the growth of the software industry, one should not forget that this has also accompanied investments on hardware of foreign origin. The rapid penetration of cell phones and the possible standardization of "Citizen Smart Cards" shows that, by proper planning, the country could find emerging opportunities in the hardware industry.

Outsourcing of Information Technology (IT) jobs will continue, and one out of every four high-technology jobs in developed nations today may be outsourced to emerging markets such as India by 2010, according to the research firm Gartner Inc. In terms of offshore centers, India remains the undisputed leader, with China and Russia emerging as strong contenders. Using high-speed telecommunications, India-based firms offer services including insurance claims processing, payroll accounting, data tabulation and equity research to clients or overseas parent companies located around the world.

Jobs in India's booming software services sector grew to 23 per cent in the year ending March 2004, as the sector benefitted from outsourcing by global clients. Expansion by existing players, new entrants, bigger projects, mergers and acquisitions and the setting up of R&D bases make for perfect ingredients in this growing pie.

The supply of IT professionals is likely to outgrow demand by over 125,000 in 2010 with the total number of professionals growing to touch 12 lakhs on the projected demand of 11.20 lakhs, says NASSCOM.

Management

With the growing complexity of all commercial activity and the entry of multinationals, the need for systematic and efficient management practices has created a huge demand for competent personnel in all areas of business and commerce. Like the organized sector of commerce and industry, the traditionally non-organized sectors like agriculture and handicrafts are realizing the need for professional management. This has opened up limitless opportunities in diverse spheres for students of commerce and allied subjects.

The MBA has become a degree of choice for the talented Indian student. This change can be attributed to the Indian Government's liberalization of the economic policy and encouragement given to the multinational companies to invest in India. There is a good scope for MBA graduates to occupy positions of prestige and responsibility, with attractive remuneration levels.

Fashion Design

Fashion is ever changing - a constant process of selection, adoption and change. It is triggered by people, events, social, economic and technological changes. No wonder, fashion and apparel designing have become one of the fastest growing professions in India in recent times. The world of clothes and accessories has expanded into a giant industry, both for the domestic market and for export.

Today, the fashion industry in India is a high growth sector with a turnover in crores. There is an ever-growing demand for designers who can come up with innovative designs that are commercially viable in both domestic and export markets. With fashion becoming a big business and India emerging as one of the major players in the global apparel market, the need for qualified professionals in this field has increased tremendously.

With beauty pageants, fashion shows, foreign labels and a public that is increasingly becoming fashion-conscious, a fashion designer has enough opportunities to exhibit his/her talent. If one is enterprising, one can set up one's own manufacturing or export unit, which will bring attractive financial returns. Alternatively, one can seek a lucrative job in the textile industry. A fashion designer is no longer an anonymous entity. As long as people feel the urge to dress well, there will always be a need for more designers to provide a variety of clothing that is appealing and trendy.

Journalism

Good journalism informs, analyses and shapes opinion. Due to the enormous influence it exerts on the lives of people, journalism is also referred to as the 'Fourth Estate'. The growing awareness that knowledge is power has also given an impetus to the regional and vernacular press to expand and strengthen its scope in the past few years. Diversification in different areas of mass communication is witnessing a steep rise and is expected to thrive further on account of growing professionalism and advancement in this sector. Anyone who is creative, dynamic, enterprising and has a flair to project his/her ideas, thoughts, observations through different media of communication can accommodate himself/herself comfortably in this industry.

Computers, especially the advent of the Internet, have brought in new and challenging opportunities in the communication segment. It is attracting more and more people from traditional forms of mass media. Opportunities for placement in diverse fields of mass communication are available in publishing houses, radio and television companies, entertainment industry, media industry, advertising agencies, public relations agencies, government organizations and more.

Biotechnology

Biotechnology is defined as the use and manipulation of living organisms to manufacture food, drugs or other products beneficial to mankind. The boom in biotech is mainly due to genetic engineering in which simple life forms are manipulated to make entirely new products. Biotechnology has a wide range of applications in science and industry.

A genetic engineer hopes to provide the society with a vast range of innovations such as more effective and cheaper pharmaceutical products, more food products, new approaches to the generation of energy, the recovery of resources, pollution control and the diagnosis and correction of genetic disorders. India today boasts of some well known companies who have forayed successfully into this sector and have made a mark on the international map.

Bioinformatics

Bioinformatics is an interdisciplinary area-an interface between the biological and computational sciences. The ultimate goals of bioinformatics is to uncover the wealth of biological information hidden in the mass of sequence, structure, literature and other biological data and obtain a clearer insight into the fundamental biology of organisms and to use this information to enhance the standard of life for mankind. This new knowledge is promising to have profound impact on fields as varied as human health, medicine, agriculture, environment and biotechnology.

With the completion of sequencing of human genome and genomes of various organisms, bioinformatics is well poised to take up the challenges of the post-genomic era and hence the need for well-trained human resource is greater across the world. The trained bioinformaticians can make their career in the area of database design, database management and computational analysis.



Sikkim Manipal University of Health, Medical and Technological Sciences Directorate of Distance Education (SMU-DDE)

The Directorate of Distance Education (SMU-DDE) of the University is committed to provide career-oriented educational programs at the Diploma, Bachelor's, Post Graduate Diploma and Master's levels through a wide network of University recognized Learning Centers.

Objectives of the Distance Education Program

- To provide high quality, value-based, career-oriented education to students and working professionals.
- To facilitate students in understanding, developing, integrating and applying both core and specialized concepts and practices.
- To provide students with a stimulating and learning-friendly atmosphere so that they can utilize their intellectual capacities to specialize in various areas of study.
- To produce energetic, effective, efficient and ethically driven graduates and postgraduates to serve society.

Design & Structure

Distance Education simply means imparting education from a distance wherein the teacher and the student are physically separated. In terms of design and structure, the common features of Bachelor's and Master's degree programs are as follows:

- The medium of instruction is English.
- Comprehensive Course Content

Comprehensive courseware will be supplied to all the students. Each book is divided into units. Each unit is written in self-instructional style and consists of introduction, objectives, structure of units, main contents, self-test activities and suggested reading. In addition, students will be encouraged to refer recommended books, wherever necessary.

■ Video/Audio/VSAT

Whenever necessary, printed material is supplemented by video/audio CDs. Lectures are broadcast through VSAT which can be in the form of lectures, debates, discussions, etc.

■ Assignments

Assignments are an integral component of distance education. The program guide supplied to the students will contain the assignments to be submitted by the students. Assignments serve the purpose of evaluation of the student's performance. Local counselors, who also provide feedback on a student's performance, evaluate these assignments.

■ Academic Counseling


Counseling is an important activity in distance education and is entirely different from usual classroom teaching. Counselors answer questions during counseling sessions besides clarifying doubts of students and helping them overcome difficulties they face while going through the study material. These counseling sessions also offer students an opportunity to interact with their peers.

■ Practical Training

Depending upon the subject, a required amount of practical training is imparted to students at the Learning Center. In certain specialized subjects, intensive counseling is also provided.

■ Project / Report

The student is also required to prepare projects wherever necessary, which are then evaluated by the local counselors.

Manipal Universal Learning (Manipal ) is the Learning Resource Development Center of SMU and supports the University in the delivery of the programs through University recognized Learning Centers spread across the country.



Education Methodology

Admission Policies

- Intelligent, ethical, articulate and active individuals with a will to upgrade their skills are encouraged to pursue the University programs.
- The applicant has to submit a completed application along with relevant enclosures to the University recognized Learning Centers well within the due date. The Learning Centers will forward the same to the University. If the application is complete in all respects and the University is satisfied with the applicant's eligibility and suitability for admission into the respective program, the student will be granted admission to that program. No candidate is permitted to pursue more than one course at a time from SMU-DDE. The University reserves the right to accept or reject any application.
- If the applications received from the students are not complete in any respect, those students may be given provisional enrolment at the University's discretion. Such students will have to submit the required eligibility documents as communicated by the University at the earliest, upon receipt of which their enrolment will be confirmed subject to the eligibility fulfillment. **Provisionally enrolled students will be allowed to appear in the examinations only after their enrolment is confirmed.**
- All the students who have enrolled in the programs of the University will be provided a program guide for each course and semester. They should go through the same thoroughly.
- An identity card will be provided to students after their enrolment in a program.
- Those students who are unable to complete the program within the specified validity period are required to register themselves afresh by paying the requisite fee as per the University regulations.

Program Structure

Course material is specially designed by a team of experts drawn from different industries, University and in-house faculty. The course curricula is designed and scrutinized by experts to meet the market demands.

Support Services

- **Counseling Sessions:** Learning Centers provide students with a platform to interact with counselors, other students and to also use the library. Students shall receive personal attention and support at these Learning Centers, including hands-on training at designated Learning Centers. The Learning Centers will provide counseling and hands on experience for each program (each semester) as indicated in the respective course headings. The Learning Centers will act as the access & contact points between the University and the students.
- **Course Material:** Comprehensive printed study material specially designed for independent study for both theory and practicals, is supplied in batches to the Learning Centers for every course and to every student. Students have to collect the material pertaining to their course along with the program guide.
- **Practical Sessions:** These will be held at the Learning Centers or at specially designated centers.
- **Assignment for Assessment and Feedback.**
- **Industry Related Project Work.**
- **Online delivery through VSAT, wherever required.**

Credit System

The 'credit system' is followed in all courses, wherein each credit amounts to 30 hours of study.



Evaluation and Grading

Evaluations are conceived, developed and administered on a rigorous and fair basis to bring out the best in students and prepare them for challenging careers. A student's performance is based on:

- Continuous evaluation, performed at the local Learning Centers, carrying 30% weightage on the final score.
- University examinations, conducted at the examination centers and evaluated by the University, carrying 70% weightage on the final score.
- Continuous evaluation is done through assignments and practicals. In each subject, a student should secure at least 35% marks in continuous evaluation and 35% marks in the University examinations, and a consolidated average of 40% to be declared pass.

Based on the students performance, the following grading system will be adopted:

- A = Excellent (+70%)
- B = Very Good (+60%)
- C = Good (+50%)
- D = Satisfactory (+40%)
- E = Failure

Examination Results

The student is informed about the examination schedule and Examination Center shall be informed through the admit card and also through the website <http://dde.smuhmts.edu>. The Examination Center will be different from the Learning Center and eligible students will be given admit cards to appear in the examination. Students will have to produce the identity card and admit card to appear in the term-end examination at the Examination Center. The examination pattern will be available in the program guide provided to the students.

The results will be published on the website <http://dde.smuhmts.edu> and the marks card will be sent to the respective Learning Centers. If a student fails to clear any of the papers, she/he has to re-appear for the relevant paper by applying to the University through the re-sitting application along with relevant fees, within the due date specified by the University.

Award of Degree

All successful students of respective Diploma / Degree / PG Diploma / Master's Degree Programs will be awarded the respective Diploma / Degree / PG Diploma / Master's Degrees by the University.

The student of final semester of Degree/ Diploma course will have to submit the Degree Issuance Application along with the requisite fee as prescribed by the University during their final semester. The application form can be downloaded from the University website.

Right to amend rules

The University reserves the right to add/delete/change/amend the syllabi, program structure, rules and regulations wherever considered necessary and appropriate without any prior notice. The students are advised to go through the website frequently where all circulars and important information will be hosted from time to time. Promulgation of any such information on the website in the form of circulars/notices is considered to be adequate.

Jurisdiction

All the disputes relating to the University programs and activities are subject to Udupi, Karnataka, India, jurisdiction only.



General Entry Scheme for SMU Programs

Diploma Programs

Diploma in Information Technology (DIT)

- Eligibility: 10+2 or equivalent / **Diploma
- Duration: 1 year (2 semesters)

Bachelors Degree

Bachelor of Arts in Journalism and Mass Communication (BAJM)

- Eligibility: 10+2 or equivalent / **Diploma
- Duration: 3 years (6 semesters)

Bachelor of Business Administration (BBA)

- Eligibility: 10+2 or equivalent / **Diploma
- Duration: 3 years (6 semesters)

Bachelor of Business Administration in Retail Operations (BBARO)

- Eligibility: 10+2 or equivalent / **Diploma
- Duration: 3 years (6 semesters)

Bachelor of Computer Application (BCA)

- Eligibility: 10+2 or equivalent / **Diploma
- Duration: 3 years (6 semesters)

▲ Bachelor of Science in Applied Biotechnology (BScBT)

- Eligibility: 10+2 or equivalent with Biology and Chemistry
- or 10+2 or equivalent in Science without Biology with Foundation Course of SMU
- Duration: 3 years (6 semesters)

▲ Bachelor of Science in Fashion Design (BScFD)

- Eligibility: 10+2 or equivalent / **Diploma
- Duration: 3 years (6 semesters)

Bachelor of Science in Information Technology (BScIT)

- Eligibility: 10+2 or equivalent / **Diploma
- Duration: 3 years (6 semesters)

Bachelor of Commerce in Information System (BComIS)

- Eligibility: 10+2 or equivalent / **Diploma
- Duration: 3 years (6 semesters)

* Graduate means a candidate who has successfully completed a 3 year University Degree Program from a recognized university.

**Diploma means a candidate who has successfully completed a 3 year Diploma from a State Board of Technical Education.

▲ This course is available only at select Learning Centers. For details, visit our website <http://dde.smuhmts.edu>



PG Diploma Programs

PG Diploma in Business Administration (PGDBA)

- Eligibility: * Graduate
- Duration: 1 year (2 semesters)

PG Diploma in Bioinformatics (PGDBI)

- Eligibility: MSc / BSc in Life Sciences (like Chemistry/ Botany/ Zoology) / BE / PG (with specialization like Molecular Biology/ Biochemistry / Genetics / Microbiology/ Structural Biology / Neurosciences / Pharmaceutical Sciences / Veterinary Sciences / Food Sciences / Agricultural Sciences / Biotechnology / Physics/ Chemistry / Mathematics / Statistics) / MBBS / BDS / M.Pharm/ B.Pharm / IT professionals with a background in specialized tools and database programs.
- Duration: 1 year (2 semesters)

PG Diploma in Computer Application (PGDCA)

- Eligibility: * Graduate
- Duration: 1 year (2 semesters)

PG Diploma in Information Technology (PGDIT)

- Eligibility: * Graduate
- Duration: 1 year (2 semesters)

Masters Degree

Master of Arts in Journalism and Mass Communication (MAJM)

- Eligibility: *Graduate
- Duration: 2 years (4 semesters)

Master of Business Administration (MBA)

- Eligibility: *Graduate
- Duration: 2 years (4 semesters)

Master of Computer Application (MCA)

- Eligibility: *Graduate
- Duration: 3 years (6 semesters)

Master of Commerce - Information System (MComIS)

- Eligibility: *Graduate in Commerce /Economics /Banking/ Finance/ Insurance/ Accounting
- Duration: 2 years (4 semesters)

Master of Science in Bioinformatics (MScBI)

- Eligibility: MSc / BSc in Life Sciences (like Chemistry/ Botany/ Zoology) / BE / PG (with specialization like Molecular Biology/ Biochemistry / Genetics / Microbiology/ Structural Biology / Neurosciences / Pharmaceutical Sciences / Veterinary Sciences / Food Sciences / Agricultural Sciences / Biotechnology / Physics/ Chemistry / Mathematics / Statistics) / MBBS / BDS / M.Pharm/ B.Pharm / IT professionals with a background in specialized tools and database programs.
- Duration: 2 years (4 semesters)

Master of Science in Computer Science (MScCS)

- Eligibility: *Graduate
- Duration: 2 years (4 semesters)

Master of Science in Information Technology (MScIT)

- Eligibility: *Graduate
- Duration: 2 years (4 semesters)

Master of Science in Telecom Technology (MScTT)

- Eligibility: *Graduate
- Duration: 2 years (4 semesters)

* Graduate means a candidate who has successfully completed a 3 year University Degree Program from a recognized university.



Important Note

1. The University recognized Learning Centers are permitted to provide counseling services to students admitted by the University into its Diploma, Bachelor's, Post Graduate Diploma and Master's Degree programs. Please visit our website for programs permitted for counselling at specific Learning Centers.
2. The basic eligibility for Admission to PG programs is Graduation. Graduate means a candidate who has successfully completed a 3 year University Degree Program.
Note:
Students having 2 years degree have to do a bridge course. For details, visit our website: <http://dde.smuhmts.edu>
3. **Foreign Students:** All foreign students seeking admission to the Distance Learning Programs of SMU must join a regular course of a recognized University in India. Alternatively, they should either be working in India or should be dependents of a person working in India. The course under SMU Distance Education (DE), can be undertaken simultaneously with the regular course mentioned above. No eligibility certificate will be issued to a student who comes to India only to join SMU - DE courses.
Foreign nationals seeking admission in India are required to **submit the additional application form**. The form is available on the website <http://dde.smuhmts.edu>
4. All the support documents enclosed along with the application form have to be attested by Gazetted Officers or Notary Public or Principal of College/ Polytechnic under the University System/Directorate of Technical Education or Head of Institution from which the student passed the eligibility criteria and additionally to be certified by the Learning Center Head, failing which the application will be rejected.
The center head or the designated person has to verify all the support documents by putting his signature and seal of the LC.
5. Without a valid Residence Permit (RP), international students in India will not be allowed to appear for examinations; RP should be submitted to the University by May 31, 2008 failing which Provisional admission will be cancelled.
6. Mid session transfers are not permitted.
7. Transfer from one LC to another for foreign nationals is not permitted.
8. There is no provision for doing dual programs of SMU DE at the same time. A candidate is permitted to pursue only one program of SMU DE at a time.
9. The student of final semester of Degree/ Diploma program will have to submit the Degree Issuance Application along with the requisite fee as prescribed by the University at the time of re-registration for the final semester. The application form can be downloaded from the University website.
10. Sikkim Manipal University of Health, Medical and Technological Sciences (SMU) has been offering Distance Education Programs since February 2001, after informing the University Grants Commission (UGC) and other regulatory bodies, including Distance Education Council (DEC). SMU has received approval from the Distance Education Council to offer programs in distance education mode.
11. University reserves the right to add/delete/change the syllabi, course structure, rules and regulations without any prior notice, as and when required, as per changes in environment. Students are advised to visit the University website <http://dde.smuhmts.edu> where all circulars and important information will be hosted from time to time. Promulgation of any such information in the website in the form of circulars / notices is considered to be adequate.
12. Legal disputes, if any, shall come under jurisdiction of Udupi (Karnataka), India.
Payment of fee:

13. All payments shall be made by the students only in the form of DD drawn in favour of "Sikkim Manipal University, DE" payable at Manipal/Udupi and **student should endorse the name, application number and center code on the reverse of the DD**. The students are advised to retain the counterfoil and photocopy of the DD with them for their reference.

Payment of fees can also be made through any credit/debit card of MasterCard/ VISA Card at select Learning Centers.



Payments made other than in the above forms will be at own risk. The fees once paid cannot be refunded for admitted students while refunds for rejected students will be made after deducting Rs. 500/- as processing fee.



Lateral Entry Scheme for SMU Programs

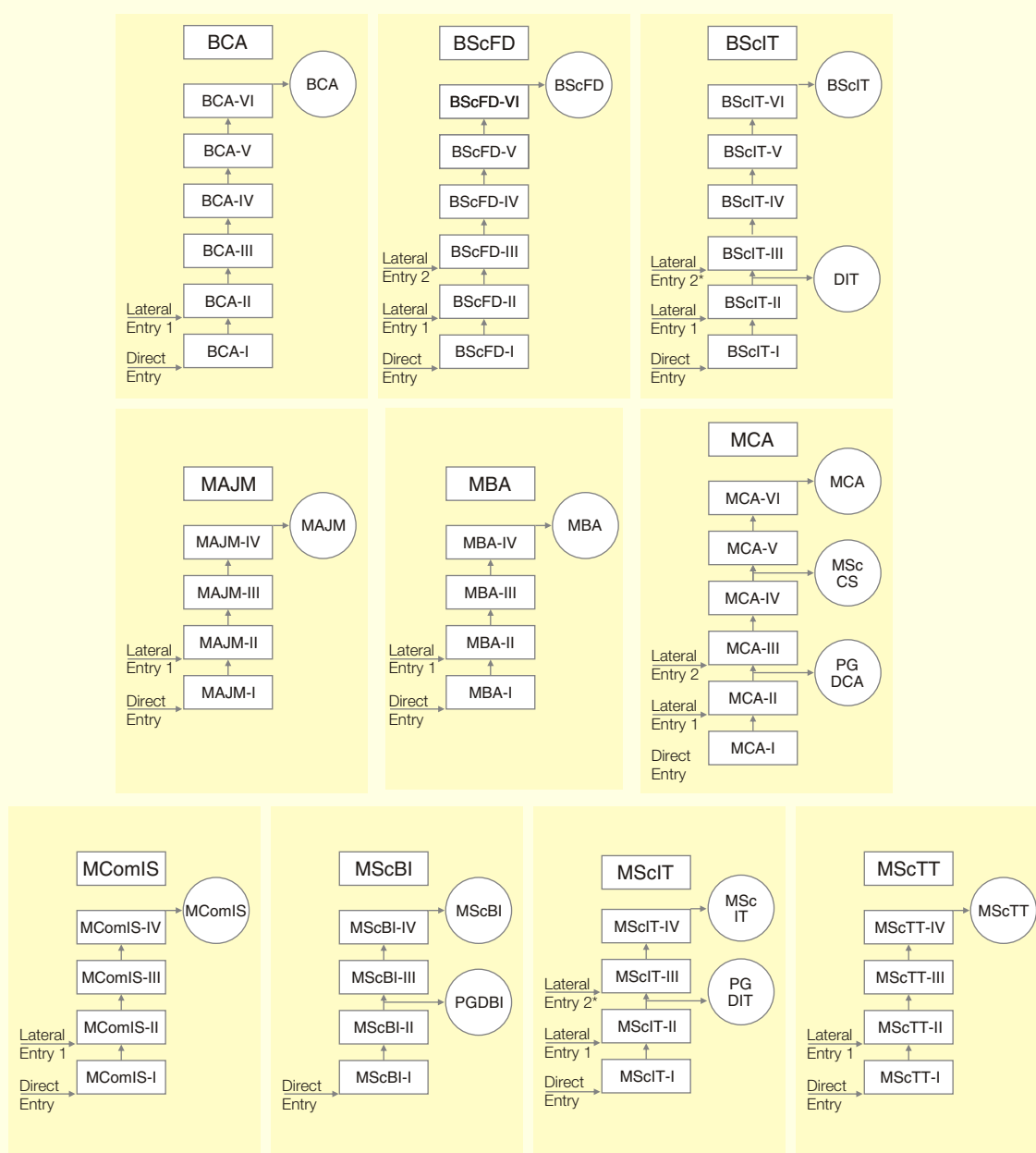
Most of the courses are designed for multiple entry and exit. The candidates can enrol for the courses based on basic qualification and lateral entry qualification.

Basic qualification: For graduation, basic qualification is 10+2 or equivalent. For post graduation, basic qualification is 3 year graduation or equivalent. The specific provisions are indicated under respective course headings.

Lateral entry qualification: Lateral entry is an opportunity given to a candidate having the basic qualification and previous qualification in the relevant field to enter a higher semester.

However such students will be required to appear and qualify in the previous semesters / relevant papers.

Candidates may exit the course at any stage and will get the corresponding Diploma / PG Diploma based on the number of semesters / examinations completed at the time of exit. The various entry and exit points for all the courses are illustrated below graphically. The details of eligibility criteria and fees structure of lateral entries are indicated in respective course headings.



* Note: The lateral entry schemes indicated above are applicable only to the students of SMU-DDE . (From August 2005 Admission onwards of SMU)

The Diploma program will prepare the candidates to advance, and to support positions such as administrative assistants, executive secretaries or office administrators in various large corporate and banking sectors. The course will equip the candidates in the areas of information processing, report writing, presentations, executive secretarial support, handling the database and understanding the system analysis and design in management.

Objectives: The program is geared towards realizing the following objectives -

- Equipping students with the technical knowledge required for an IT environment.
- Developing skills in understanding IT applications in various corporate business and banking sectors.
- Understanding, in brief, concepts of computer programming, operating systems, internet and multimedia.
- Refining written and interpersonal communication skills.

Eligibility: 10+2 or equivalent/3 year Diploma from a State Board of Technical Education.

Semester Fee: Rs 9,200/- per semester inclusive of examination fees or as revised from time to time.

Minimum Duration: 1 year (2 semesters)

Maximum Duration: 2 years.

Minimum counseling and hands-on experience at Learning Centers: 160 hrs/semester

Provision for lateral entry to second semester of DIT:

Eligibility:

(a) 10+2 and six month Computer Course from a reputed institution*.

OR

(b) 3 year Diploma in CS/ECE/IT from a State Board of Technical Education.

OR

(c) 3 year Diploma from a State Board of Technical Education and six month Computer Course from a reputed institution*.

Additional Fees: In addition to the regular fees, an additional lateral entry fee of Rs. 3,700 /- (including examination fees) is payable by students opting for this scheme.

Note: In this lateral entry scheme, a student has to appear and pass the first semester examination. Books of First semester will be supplied by the University and assessment will be completed at the Learning Centers.

* For the list of approved institutions visit our website <http://dde.smuhmts.edu>

Note: After successful completion of this course, Students can continue with Bachelor's degree program (BSc-IT) by taking lateral entry to the third Semester.

The students need not appear for the first and second semester examination and no lateral entry fee will be applicable for this scheme.

A maximum gap of one year is allowed for the students to get admitted in this scheme.

Program Structure

First Semester		
Sub. Code	Title	Credit
BT0031	Basics of IT	2
BT0032	Structured System Analysis and Design [SSAD]	2
BT0033	Data Structure using ' C '	4
BT0034	DBMS and SQL Server	4
BT0035	Internet and Multimedia	4
Total Credits		16

Second Semester		
Sub. Code	Title	Credit
BT0036	Operating System [OS]	2
BT0037	Linux (OS)	2
BT0038	Communications Skills in English	4
BT0039	Basic Mathematics	4
BT0040	Visual Programming with VB	4
Total Credits		32



Bachelor of Arts in Journalism and Mass Communication **BAJM**

There is a growing need for trained media professionals. This course is meant for candidates who aspire for a career in mass communication and journalism. This course imparts a comprehensive training to young, aspiring journalists to meet the needs in media industry, keeping pace with the recent developments in all areas of mass media.

Objectives: The program objectives are

- To provide students with basic journalistic skills in various mass media.
- To expose students to recent developments in media issues and media research.
- To strengthen the foundations for various technologies involved in mass media like computer applications, respective software and hardware in print, radio, television, internet and the likes.

This course would enable the students to work in various media like print, radio, television, internet, and in related fields. Students can start a full-fledged career in journalism or venture into freelancing.

Eligibility: 10+2 or equivalent / 3 year Diploma from a State Board of Technical Education.

Semester Fee: Rs. 8,700/- per semester inclusive of examination fees or as revised from time to time.

Minimum duration: 3 years (6 semesters).

Maximum duration: 6 years.

Minimum counseling and hands-on experience at Learning Centers: 160 hrs/semester.

Program Structure

First Semester		
Sub. Code	Title	Credit
BJ0001	Communication Skills	2
BJ0002	Computer Fundamentals	2
BJ0003	Fundamentals of Language	4
BJ0004	Human Communication	4
BJ0005	Print Journalism	4
Total Credits		16

Second Semester		
Sub. Code	Title	Credit
BJ0006	Internet and New Media	4
BJ0007	Organizational Behavior	4
BJ0008	Computer and Printing Process	4
BJ0009	Media Organization	2
BJ0010	History of Media	2
Total Credits		32

Third Semester		
Sub. Code	Title	Credit
BJ0011	Audio-Visual Communication	4
BJ0012	Photojournalism	4
BJ0013	Technology Based Media Communication	4
BJ0014	Public Relations	4
Total Credits		48

Fourth Semester		
Sub.Code	Title	Credit
BJ0015	Media and Society	2
BJ0016	Media Laws and Media Ethics	4
BJ0017	Advertising	4
BJ0018	Information Society	4
BJ0019	Magazine Journalism	2
Total Credits		64

Fifth Semester		
Sub. Code	Title	Credit
BJ0020	Media Management	4
BJ0021	Media and Political System	4
BJ0022	Media and Development	4
BJ0023	Media Criticism	4
Total Credits		80

Sixth Semester		
Sub. Code	Title	Credit
BJ0024	Media Research	4
BJ0025	Investigative Reporting and Interviews	4
BJ0026	Anchor Person in TV and Radio Broadcasting	4
BJ0027	Project	4
Total Credits		96

The BBA program is directed at preparing participants for the challenges of supervisory and middle-level management positions in the public or private sector. The program blends the three core disciplines of management, communication and information systems into a balanced program providing the contemporary manager with effective skills. In addition, the program offers general business courses to broaden the prospective manager's knowledge base.

Objectives: The program aims at realizing the following objectives -

- To communicate effectively through writing and in interpersonal communication.
- To use information and communication technology effectively.
- To make informed decisions in the selection, utilization and evaluation of information technology.

- To integrate and manage administrative systems.
- To apply contemporary theories of organizational behaviour.
- To manage administrative functions with respect to planning, organizing, staffing and controlling.

Eligibility: 10+2 or equivalent / 3 year Diploma from a State Board of Technical Education

Semester Fee: Rs.9,200/- per semester inclusive of exam fees or as revised from time to time.

Minimum duration: 3 years (6 semesters).

Maximum duration: 6 years.

Minimum counseling and hands-on experience at Learning Centers: 160 hrs/semester.

Program Structure

First Semester		
Sub. Code	Title	Credit
BB0001	Marketing	2
BB0002	Organization Behavior	2
BB0003	Organization, Competition & Environment	2
BB0004	Communication Skills in English	2
BB0005	Computer Fundamentals	4
BB0006	Financial Accounting	4
Total Credits		16

Second Semester		
Sub. Code	Title	Credit
BB0007	Management Information System (MIS)	2
BB0008	Legal Regulatory Framework	2
BB0009	Business Strategy	4
BB0010	Quantitative Techniques in Business	4
BB0011	Managing Financial Resources	4
Total Credits		32

Third Semester		
Sub. Code	Title	Credit
BB0012	Management Accounting	4
BB0013	Financial System & Auditing	4
BB0014	Introduction to Internet	4
BB0015	Quality Management	2
BB0016	Small Business Management	2
Total Credits		48

Fourth Semester		
Sub. Code	Title	Credit
BB0017	Financial Reporting	2
BB0018	Human Resource Management	2
BB0019	Taxation	4
BB0020	Managing Information	4
BB0021	Production and Operation Management	4
Total Credits		64

Fifth Semester		
Sub. Code	Title	Credit
BB0022	Capital and Money Market	4
BB0023	Multinationals & their Roles	4
BB0024	Introduction to International Marketing	4
BB0025	e-Commerce	2
BB0026	Introduction to Technology Management	2
Total Credits		80

Sixth Semester		
Sub. Code	Title	Credit
BB0027	Cross-culture Aspects of Business	4
BB0028	Entrepreneurship Development	4
BB0029	Economic Reforms Process in India	4
BB0030	Role of International Financial Institutions	2
BB0031	Management Development	2
Total Credits		96

India's retail sector is valued at US\$ 300 billion with a consumer base of 1.2 billion people. Major global retailers are also looking at setting up operations in India to capitalize on this large consumer base.

Retail as a sector for employment has gained attention not only from the Government but also from the general public. According to a survey conducted by India Retailing Forum, the retail industry will require a total 900,000 people, skilled and unskilled. With this demand, the retail industry, today, is facing a huge shortage of employable skills.

It is therefore imperative to provide learning opportunities to develop knowledge and skills which will immediately help in bridging the skill gap and also cater to the growing demand from this industry.

SMU offers a Bachelor's program in Retail Operations which encompasses an appropriate mix of academic and professional skills development, required by the retail industry.

Objectives:-

The program aims at realizing the following objectives:

- To develop the essential management skills required to meet and participate in an increasingly competitive business environment and with special focus on the Retail sector.
- To provide theoretical and practical knowledge of Retail operations.

- To provide an integrated perspective of management functioning along with a fair amount of exposure to real life cases/technical know how in the Retail sector.
- To hone the student's analytical abilities.
- To communicate effectively through writing and in interpersonal communication.
- To use information and communication technology effectively.
- To make informed decisions in selection, utilization and evaluation of opportunities/choices available.
- To give the student a starting edge in the Retail Industry.

Eligibility: 10+2 or equivalent / 3 year Diploma from a State Board of Technical Education

Semester Fee: Rs.9,700/- per semester inclusive of examination fees or as revised from time to time.

Minimum duration: 3 years (6 semesters).

Maximum duration: 6 years.

Minimum counseling and hands-on experience at Learning Centers: 160 hrs/semester.

Program Structure

First Semester		
Sub. Code	Title	Credit
CA0001	Marketing	4
CA0002	Organizational Behavior	2
CA0003	Supply Chain Management	2
CA0004	Merchandising - I	2
CA0005	Store Operations	2
CA0006	Retail Cashiering	2
CA0007	Retail Job Knowledge	2
Total Credits		16

Second Semester		
Sub. Code	Title	Credit
CA0008	Management Information Systems	2
CA0009	Human Resource Management	2
CA0010	Quantitative Techniques in Business	4
CA0011	Warehouse Management	4
CA0012	Project	4
Total Credits		32

Third Semester		
Sub. Code	Title	Credit
CA0013	Retail Management	2
CA0014	Communication Skills in English	2
CA0015	Financial Accounting	4
CA0016	Quality Management	2
CA0017	Small Business Management	2
CA0018	Logistics Management	4
Total Credits		48

Fourth Semester		
Sub. Code	Title	Credit
CA0019	Business Strategy	4
CA0020	Advertising & Sales Management	4
CA0021	Buying	4
CA0022	Merchandising - II	4
Total Credits		64

Fifth Semester		
Sub. Code	Title	Credit
CA0023	Research Methodology	2
CA0024	Management Accounting	4
CA0025	Introduction to International Marketing	4
CA0026	e-Commerce	2
CA0027	Introduction to Technology Management	2
CA0028	Case studies in Retail	2
Total Credits		80

Sixth Semester		
Sub. Code	Title	Credit
CA0029	Legal Regulatory Framework	2
CA0030	Retail Project/Property Management	4
CA0031	Modern Retail Management Processes	4
CA0032	Retail Service Management	4
CA0033	Management Development	2
Total Credits		96

(Revised Fall 2007)

Fast growing information technology and communication systems have become critical components of almost every company's strategic plan. Companies which want to take advantage of the new information technologies and communication systems require expert professionals, who can apply computer science principles to solve problems produced by the interface between business and technology. This is an undergraduate program where students are exposed to various areas of computer applications including the latest developments in the industry.

Objectives: The program aims at realizing the following student objectives -

- Demonstrating sound knowledge in key areas of computer science or industrial computing.
- Demonstrating a substantial understanding of concepts in key areas of computer science.
- Carrying out the required analysis and synthesis involved in computer systems, information systems and computer applications.
- Demonstrating professional competence in developing software and in its design and implementation
- Developing sound practical skills in order to address problems which arise from computer systems and applications.
- Demonstrating sound presentation and communication skills, which are required in the computer industry.

After completion of the course, students of high academic standard shall be capable of competing for employment in a chosen professional area and pursuing career development in that area.

Eligibility: 10+2 or equivalent / 3 year Diploma from a State Board of Technical Education

Semester Fee: Rs.9,200/- per semester inclusive of examination fees or as revised from time to time.

Minimum duration: 3 years (6 semesters)

Maximum duration: 6 years.

Minimum counseling and hands-on experience at Learning Centers: 160 hrs/semester.

Program Structure

First Semester		
Sub.Code	Title	Credit
BC0032	Communication Skills	4
BC0033	Basic Mathematics	4
BC0034	Computer Concepts and C Programming	4
BC0035	Computer Fundamentals	4
BC0036	Digital Systems	4
Total Credits		20

Second Semester		
Sub. Code	Title	Credit
BC0037	Object Oriented Programming using C++	4
BC0038	Data Structures using C	4
BC0039	Discrete Mathematics	4
BC0040	Computer Organization and Architecture	4
BC0041	Fundamentals of Database and Management	4
Total Credits		40

* For the list of approved institutions visit our website <http://dde.smuhmts.edu>

Provision for lateral entry to second semester of BCA :

Eligibility:

(a) 10+2 or equivalent / 3 year Diploma from a State Board of Technical Education and six month computer course from a reputed institution*.

OR

(b) 3 year Diploma in IT/CS from a State Board of Technical Education

Additional Fees: In addition to the normal fees, an additional lateral entry fee of Rs. 3,700 /- (including examination fees) is payable by students opting for this scheme.

Note: In this lateral entry scheme, students have to appear and pass the first semester examination. Books of first semester will be supplied by the University and internal assessment will be completed at the Learning Centers.

Third Semester		
Sub. Code	Title	Credit
BC0042	Operating Systems	4
BC0043	Computer Oriented Numerical Methods	4
BC0044	Accounting and Financial Management	4
BC0045	Structured System Analysis and Design	4
BC0046	Microprocessor (8085, 8086 & 8087)	4
Total Credits		60

Fourth Semester		
Sub. Code	Title	Credit
BC0047	Java Programming	4
BC0048	Computer Networks	4
BC0049	Software Engineering	4
BC0050	Oracle and Distributed Databases	4
BC0051	System Software	4
Total Credits		80

Fifth Semester		
Sub. Code	Title	Credit
BC0052	Theory of Computer Science	4
BC0053	VB.Net and XML	4
BC0054	Software Project Management and Quality Assurance	4
BC0055	TCP/IP Protocol Suite	4
BC0056	Unix Operating System	4
Total Credits		100

Sixth Semester		
Sub. Code	Title	Credit
BC0057	Object Oriented Analysis and Design	4
BC0058	Data Warehousing and Data Mining	4
BC0059	Elective*	4
BC0060	Project	8
Total Credits		120

*Elective

BC5901-Artificial Intelligence

OR

BC5902-Image Processing

The basic objective behind designing the Bachelor of Commerce in Information System (BComIS) program is to impart appropriate business skills coupled with the latest techniques in the IT field. This course covers accounting, insurance and risk management, economic and financial principles and a basic understanding of the technologies underlying e-commerce.

Objectives: The program aims at realizing the following objectives -

- Enabling students to acquire the necessary skills and strategies to cope with the ever increasing requirements of industries and business in the globalized era.
- Allowing students to compete in the global market for BPO, outsourcing and other international jobs.

- Equipping students with business skills and communication skills and knowledge of legal issues required by various departments of different organizations.
- Imparting broad knowledge in advanced areas of commerce, accounts and IT.

Eligibility: 10+2 or equivalent / 3 year Diploma from a State Board of Technical Education.

Semester Fee: Rs.6,200/- per semester inclusive of examination fees or as revised from time to time.

Minimum duration: 3 years (6 semesters).

Maximum duration: 6 years.

Minimum counseling and hands-on experience at Learning Centers: 160 hrs/semester.

Program Structure

First Semester		
Sub. Code	Title	Credit
BM0001	Financial Accounting	4
BM0002	Modern Indian / Foreign Language	4
BM0003	Mathematics and Statistics	4
BM0004	Business Organization and Management	2
BM0005	Basic Computer Application	2
Total Credits		16

Second Semester		
Sub. Code	Title	Credit
BM0006	Ecosystem and Micro Economics	4
BM0007	Office Management & Secretarial Practice	4
BM0008	Programming in C & C++	4
BM0009	Marketing Management	4
Total Credits		32

Third Semester		
Sub. Code	Title	Credit
BM0010	Economics: Environment and Macro Policy	4
BM0011	Business Law	4
BM0012	Database Management and Oracle	4
BM0013	Advanced Accountancy	4
Total Credits		48

Fourth Semester		
Sub. Code	Title	Credit
BM0014	e-Commerce and Application Package	4
BM0015	Business Taxation and Auditing	4
BM0016	Management and Cost Accounting	4
BM0017	Secured e-Transaction	2
BM0018	Human Resource Management	2
Total Credits		64

Fifth Semester		
Sub. Code	Title	Credit
BM0019	Management Information System (MIS)	2
BM0020	Electronic Banking	2
BM0021	Financial Management	4
BM0022	Financial Services	4
BM0023	Capital and Money Market	4
Total Credits		80

Sixth Semester		
Sub. Code	Title	Credit
BM0024	Small Business Management and Entrepreneurship	4
BM0025	Visual Basic	4
BM0026	CRM (Customer Relationship Management)	4
BM0027	Insurance and Risk Management	4
Total Credits		96

(Revised Spring 2007)

The course is designed for undergraduates who wish to make a career in the field of biotechnology. This exciting field is full of career opportunities, both at the industry and the academic or research levels. The first year of this 3-year course is designed to be a foundation course with students being trained in the basics of various subjects required for a further understanding of biotechnology. The second intermediate year consists of advanced courses in topics pertinent to the subject. In the final year, students are exposed to specialized topics in various areas of biotechnology.

Objectives: The program aims at realizing the following objectives -

- Providing in-depth training in both the theoretical and practical aspects of various topics like Molecular and Cell Biology, Molecular Genetics, Tissue Culture and core areas of Biotechnology such as Agriculture, Industrial, Medical and Environmental Biotechnology.
- To enable students to pursue a PG degree in the field of biotechnology or specialize in specific topics like Molecular Biology or Genetics covered in the program.

Eligibility:

- (a) 10+2 or equivalent with Biology & Chemistry
- (b) 10+2 or equivalent in Science (without Biology). The candidates seeking admission under this criterion must also undergo a foundation course in Biology in the first semester. The study material shall be provided by the University and the examination will be conducted at the Learning Centers as per guidelines issued by the University. An **additional fee of Rs.2,200/-** is applicable in addition to the course fee for candidates seeking admission under this criterion.

Semester Fee: Rs.11,200/- per semester inclusive of examination fees or as revised from time to time (Regarding Practical Course Fees see page 23).

Minimum duration: 3 years (6 semesters).

Maximum duration: 6 years.

Minimum counseling and hands-on experience at Learning Centers: 160 hrs/semester.

*This course is available only at select Learning Centers. The center names and addresses are available on <http://dde.smuhmts.edu>

Program Structure

First Semester		
Sub. Code	Title	Credit
BO0034	Chemistry (Organic and Physical)	4
BO0035	Biochemistry -I	4
BO0036	Biology of Plants	2
BO0037	Biology of Invertebrates	2
BO0038	Biology of Chordates	2
BO0039	Communication Skills in English	2
Total Credits		16

Second Semester		
Sub. Code	Title	Credit
BO0040	Basics of IT and Windows based applications	4
BO0041	Biochemistry - II	4
BO0042	Cell Biology	4
BO0043	Practical -I -Cell Biology & Biochemistry	4
Total Credits		32

Third Semester		
Sub. Code	Title	Credit
BO0044	Introduction to Biotechnology and Bioinformatics	2
BO0045	Microbiology	4
BO0046	Biophysics	2
BO0047	Biostatistics and Mathematics	4
BO0048	Genetics	4
Total Credits		48

Fourth Semester		
Sub. Code	Title	Credit
BO0049	Molecular Biology	4
BO0050	Molecular Genetics	4
BO0051	Immunology	4
BO0052	Practical -II - Genetics and Microbiology	4
Total Credits		64

Fifth Semester		
Sub. Code	Title	Credit
BO0053	Developmental Biology	4
BO0054	Cell and Tissue Culture	4
BO0055	Plant and Animal Biotechnology	4
BO0056	Environmental Biotechnology	4
Total Credits		80

Sixth Semester		
Sub. Code	Title	Credit
BO0057	Medical Biotechnology	4
BO0058	Industrial Biotechnology	4
BO0059	Bioethics and IPR	4
BO0060	Practical -III Immunology and Molecular Biology	4
Total Credits		96

Practical courses

The BScBT students have to undergo mandatory practical courses once in a year as a part of the course requirement. There will be three practical subjects, one each in II, IV and VI semesters. Each practical course is of four credits. The duration of the practical course will be about 6 days. On the last day of each practical course, there will be an examination. Out of the 100% marks, 70% is meant for continuous assessment over the duration of the practical course and 30% for the final examination to be held on the last day of the practical course. Since these practical courses require advanced equipment and imported chemicals, they will be conducted only at the designated laboratories. These laboratories are provided with full fledged infrastructure and

trained staff to support the students. Three or four laboratories are identified for this purpose and the practical courses will be scheduled only in these laboratories. Practical courses will be scheduled once in a year and it is compulsory for all the students to attend the practical courses. The fee for the practical course is Rs. 6,000/- each year including the practical examination fees. Cost of travel and accommodation to attend the practical course at designated centers are not part of the fees and will be separately borne by the students. The laboratory fee should be paid to the University along with II, IV and VI semesters re-registration fees.

Year	Course Code	Course
1st	BO0043	Cell Biology and Biochemistry
2nd	BO0052	Genetics and Microbiology
3rd	BO0060	Immunology and Molecular Biology



This course is designed for undergraduates who wish to make a career in Fashion Designing. This rapidly growing field is full of exciting career opportunities in both the garment industry and the private label sector.

Objectives: The program aims at realizing the following objectives -

- Enabling students who have completed 10+2 or equivalent to pursue a career in the field of Fashion Design.
- Enabling students to learn various aspects of the fashion industry and design methods, as applied to garments.
- Enabling students in gaining the working knowledge of computers and IT in fashion design.

Eligibility: 10+2 or equivalent / 3 year Diploma from a State Board of Technical Education.

Semester Fee: Rs.11,200/- per semester inclusive of examination fees or as revised from time to time.

Minimum duration: 3 years (6 semesters).

Maximum duration: 6 years.

Minimum counseling and hands-on experience at Learning Centers: 240 hrs/semester.

*This course is available only at select Learning Centers. The center names and addresses are available on <http://dde.smuhmts.edu>

Program Structure

First Semester		
Sub. Code	Title	Credit
BF0001	Introduction to Fashion Concepts	4
BF0002	Introduction to Textiles	4
BF0003	Communication Skills in English	2
BF0004	Introduction to Yarn Craft	2
BF0005	Computer Basics	4
Total Credits		16

Second Semester		
Sub. Code	Title	Credit
BF0006	Principles and Elements of Design	4
BF0007	Advanced Multimedia	4
BF0008	Introduction to Pattern Making	4
BF0009	Sewing Technology	4
Total Credits		32

Provision for lateral entry to second semester of BScFD :

Eligibility: 10+2 and six months of Fashion Designing Course.

Additional fees: In addition to the normal fees, an additional lateral entry fee of Rs.3,700/- (including examination fees) is payable by students opting for this scheme.

Note: In this lateral entry scheme, students have to appear and pass the first semester examination. Books of first semester will be supplied by the University and internal assessment will be completed at the Learning Centers.

Third Semester		
Sub. Code	Title	Credit
BF0010	Pattern Making and Stitching	4
BF0011	Yarns to Fabrics	4
BF0012	Classification and Areas of Fashion	4
BF0013	Fashion Illustration	4
Total Credits		48

Provision for Second level lateral entry into the third semester of BScFD :

Eligibility: 10+2 and 2 year Diploma in Fashion Design from an AICTE approved Institution .

Additional fees:

In addition to the normal fees, an additional lateral entry fee of Rs. 3,700 /- (including examination fees) is payable by the students opting for the scheme.

Note: For this lateral entry, the students have to appear and pass the second semester examination. The study material for the second semester would be provided by the University and internal assessment will be completed at the Learning Center.

Fourth Semester		
Sub. Code	Title	Credit
BF0014	Fabric Preparation for Consumers	4
BF0015	Embroidery	2
BF0016	Import Export	2
BF0017	Financial and Management Accounting	4
BF0018	CAD application	4
Total Credits		64

Fifth Semester		
Sub. Code	Title	Credit
BF0019	Garment Manufacturing	4
BF0020	Merchandising	4
BF0021	Concept of e-Commerce	4
BF0022	Production Management	4
Total Credits		80

Sixth Semester		
Sub. Code	Title	Credit
BF0023	Quality Control	4
BF0024	Advanced CAD	4
BF0025	Consumer Information	2
BF0026	Marketing and Advertising	2
BF0027	Project	4
Total Credits		96

The design and implementation of BScIT offers new challenges when compared to the traditional computing environment. The recent emergence of global business, new technologies for data processing and data communication / networking environment, equip specialized science graduates to focus on professional careers in Information Technology.

The BScIT program has been developed to provide the students with adequate theoretical and practical knowledge which will enable them to effectively participate in solving the complex problem of the IT industry.

SMU's IT programs intend to equip graduates with the knowledge and skills required to contribute to the vital area of Information Technology.

Primary objectives of this program:

- Imparting knowledge of computer and programming logic environment in IT.
- Knowledge of advanced IT applications in different business sectors.
- To equip students with the technical knowledge required for an IT professional to handle multi-tasking and multi-programming situations and to assess and develop computer based solutions.

Eligibility: 10+2 or equivalent / 3 year Diploma from a State Board of Technical Education.

Semester Fee: Rs. 9,200/- per semester inclusive of examination fees or as revised from time to time.

Minimum duration : 3 years (6 semesters).

Maximum duration : 6 years.

Minimum counseling and hands-on experience at Learning Centers : 160 hrs/semester

Program Structure

First Semester		
Sub. Code	Title	Credit
BT0031	Basics of IT	2
BT0032	Structured System Analysis and Design [SSAD]	2
BT0033	Data Structure using ' C '	4
BT0034	DBMS & SQL Server	4
BT0035	Internet and Multimedia	4
Total Credits		16

Second Semester		
Sub. Code	Title	Credit
BT0036	Operating System [OS]	2
BT0037	Linux (OS)	2
BT0038	Communication skills in English	4
BT0039	Basic Mathematics	4
BT0040	Visual Programming with VB	4
Total Credits		32

* For the list of approved institutions visit our website <http://dde.smuhmts.edu>

Provision for lateral entry to second semester of BSc IT:

Eligibility:

(a) 10+2 and Six months Computer Course from a reputed institution*.

OR

(b) 3 year Diploma in CS or ECE or IT from a State Board of Technical Education.

OR

(c) 3 year Diploma from a State Board of Technical Education and six month computer course from a reputed institution*.

Additional Fees: In addition to the regular fees, an additional lateral entry fee of Rs. 3,700 /- (including examination fees) is payable by students opting for this scheme.

Note: In this Lateral Entry Scheme, students have to appear and pass the First Semester Examination. Books of First semester will be supplied by the University and Internal Assessment will be completed at the Learning centre.

Provision for lateral entry to third semester of BScIT:

Eligibility: Successful completion of DIT (Revised Aug 2005) course from SMU.

Note: Students are eligible to seek admission directly to third semester. Students need not appear for the first and second semester examination and no lateral entry fee will be applicable.

A maximum gap of one year is allowed for the students to get admitted in this scheme.

Third Semester		
Sub. Code	Title	Credit
BT0041	WML and WML Script	2
BT0042	Introduction to (Dot) .Net Technology	2
BT0043	OOPS using C++	4
BT0044	Computing Numerical and Statistical Methods	4
BT0045	Data Communication and Computer Networking	4
Total Credits		48

Fourth Semester		
Sub. Code	Title	Credit
BT0046	Communication Technology	2
BT0047	Management Information Systems (MIS)	2
BT0048	Accounting Principles and Practice	4
BT0049	Software Engineering	4
BT0050	Data Warehousing and Mining	4
Total Credits		64

Fifth Semester		
Sub. Code	Title	Credit
BT0051	UNIX Operating Systems	2
BT0052	Client Server Architecture	2
BT0053	Java Programming	4
BT0054	Basics of e-Commerce	4
BT0055	Internet Technology and Web Designing	4
Total Credits		80

Sixth Semester		
Sub. Code	Title	Credit
BT0056	Software Testing and Quality Assurance	2
BT0057	Quality Management Principle	2
BT0058	Optical Base Networking	2
BT0059	Information System Security	2
BT0060	Database Concept with Oracle	4
BT0061	PROJECT	4
Total Credits		96

This course is specially meant for candidates who aspire for a career in mass media and communication, and imparts training in print, radio, television, internet and corporate communication. Throughout the course, impetus will be placed on a critical approach to media and special attention will be given to communication research. In the final semester, students have the option of specializing in either television production or corporate communication.

Objectives: The program is geared towards realizing the following objectives -

- To provide intensive theoretical and practical knowledge in various media professions ranging from the management of media organization to research.
- To provide an integrated perspective of media functioning along with a fair amount of exposure to technical know-how.
- To hone the student's analytical skills.

Completion of this course would open vistas for fulfilling careers in various media like television production, corporate advertising, photography and related fields.

Eligibility: 3 year Graduation.

Semester Fee: Rs.9,950/- per semester inclusive of examination fees or as revised from time to time.

Minimum duration: 2 years (4 semesters).

Maximum duration: 4 years.

Minimum counseling and hands-on experience at Learning Centers: 160 hrs/semester.

Program Structure

First Semester		
Sub. Code	Title	Credit
MJ0001	Internet and Media	2
MJ0002	Computer Fundamentals	2
MJ0003	Mass Communication	4
MJ0004	Reporting and Editing	4
MJ0005	Media Laws and Ethics	4
Total Credits		16

Second Semester		
Sub. Code	Title	Credit
MJ0006	Radio and Television for Communication	2
MJ0007	Computer Applications in Mass Communication	2
MJ0008	Television News	4
MJ0009	Media Organization and Management	4
MJ0010	Communication Research	4
Total Credits		32

Provision for lateral entry to the second semester of MAJM:

Eligibility: 3 year Graduation with one year Post Graduate Diploma in Journalism and Mass Communication or 1 year work experience in the field related to Journalism and Mass Communication thereafter.

Additional fees: In addition to the normal fees, an additional lateral entry fee of Rs 3,700/- (including examination fees) is payable by students opting for this scheme.

Note: In this lateral entry scheme, students have to appear and pass the first semester examination. Books of first semester will be supplied by the University and internal assessment will be completed at the Learning Center.

Third Semester		
Sub. Code	Title	Credit
MJ0011	News Critics	4
MJ0012	Photography and Videography	4
MJ0013	Interviews for Print, Radio and Television	4
MJ0014	Online Journalism	4
Total Credits		48

Fourth Semester		
Sub. Code	Title	Credit
MJ0015	Master thesis	4
MJ0016	Elective [▲]	12
Total Credits		64

[▲]Under elective, student can select from any one of the following combinations

Group 1:

MJ1601	Organizational Communication	4 credits
MJ1602	Advertising and Public Relations	4 credits
MJ1603	Event Management and Reporting	4 credits

Group 2:

MJ1604	Television Studies	4 credits
MJ1605	Television Production	4 credits
MJ1606	Television Management and its Policy	4 credits

The phenomenal growth being experienced by the manufacturing and services sectors and with globalization of markets, these sectors are increasingly looking at employing skills which require a knowledge of management principles and with managerial capability. There has also been considerable progress and advancement in management tools and techniques. SMU has therefore designed and developed a Post Graduate Diploma in Business Administration to cater the needs of professionals. This course will provide a foundation in essential management principles, supported by multi functional knowledge with the ability to apply, adapt and integrate these skills in different management settings.

Objectives:

The PGDBA Program aims to improve the students' capability to manage in a business environment. On completion of the program, students are expected to have acquired:

- A systematic approach to identification of business problems and their solutions
- The ability to make competent decisions
- Effective communication skills
- A broad knowledge of concepts, policies and techniques applicable to efficient administration and management of business.

Eligibility: 3 year Graduation

Semester Fee: Rs.10,450/- per semester inclusive of examination fees or as revised from time to time.

Minimum duration: 1 year (2 semesters).

Maximum duration: 2 years.

Minimum counseling and hands-on experience at Learning Centers: 160 hrs/semester.

Note:

A person who has successfully completed the SMU PGDBA course is eligible for Lateral Entry to III semester of MBA (Revised Fall' 07), provided the student registers for the 3rd Semester within three years of registering for the PGDBA. Such students will be exempted I and II semester examinations and no lateral entry fee is required to be paid.

Program Structure

First Semester		
Core Subjects		
Sub. Code	Title	Credit
PB0001	Management Process and Organization Behavior	3
PB0002	Business Communication	3
PB0003	Statistics for Management	3
PB0004	Financial and Management Accounting	3
PB0005	Managerial Economics	3
PB0006	Human Resource Management	3
Total Credits		18

Second Semester		
Core Subjects		
Sub. Code	Title	Credit
PB0007	Production and Operations Management	3
PB0008	Financial Management	3
PB0009	Marketing Management	3
PB0010	Management Information System	3
PB0011	Operations Research	3
PB0012	Project Management	3
Total Credits		36



(Revised Fall 2007)

Education is a primary ingredient and also a key to success in any profession. With a booming economy and a young population, it is imperative to provide quality education to this population which will create skills required by various sectors of the economy and industry.

Providing quality learning in higher education is becoming a major focus area in the country not only with the Government but, also increasingly, with educational institutions. The need of the day for any educational institution is to provide education that encompasses world class curriculum and is also industry focused.

SMU has been addressing this growing need by continuously upgrading and enhancing the quality, curriculum and methodology in its courses offered to its distance learning students.

The Master of Business Administration (MBA) is an integrated program designed to provide an advanced program in management for those seeking managerial positions in industry, commerce and services. The core subjects are aimed at developing knowledge and skills in fundamental management disciplines. The program also involves participation in group work with students from diverse backgrounds and is aimed at improving the decision making abilities of the participants in management related areas.

Objectives:-

The program aims at realizing the following objectives

- To provide intensive theoretical and practical knowledge of management.
- To provide an integrated perspective of management functioning along with a fair amount of exposure to real life cases / technical know how.
- To hone the student's analytical abilities
- To provide access to a broad base of knowledge in core managerial skills
- To develop the essential management skills required to meet and participate in an increasingly international business environment

Program Structure

First Semester

Core Subjects		
Sub. Code	Title	Credit
MB0022	Management Process and Organization Behavior	3
MB0023	Business Communication	3
MB0024	Statistics for Management	3
MB0025	Financial and Management Accounting	3
MB0026	Managerial Economics	3
MB0027	Human Resource Management	3
Total Credits		18

Third Semester

Core Subjects + Specialization Subjects		
Sub. Code	Title	Credit
MB0034	Research Methodology	3
MB0035	Legal Aspects of Business	3
Four Subjects in area of Specialization (2 credits each)		8
Project@		
Total Credits		50

- To build upon the essential core management modules allowing greater emphasis on elective modules of management.

Eligibility: 3 year Graduation

Semester Fee: Rs.10,450/- per semester inclusive of examination fees or as revised from time to time.

Minimum duration: 2 years (4 semesters).

Maximum duration: 4 years.

Minimum counseling and hands-on experience at Learning Centers: 160 hrs/semester.

Students are required to take six subjects in each of the first two semesters. In each of the third and fourth semesters, there will be two compulsory papers and four papers of the specialization selected by the student. There will also be a project in the area of specialization. The specialization should be selected by the student while reregistering for the third semester. Students will be permitted only one specialization.

Provision for lateral entry to second semester of MBA (First Level)

Eligibility:

- (a) BBA/BBM from a recognized University OR
- (b) 3-year Graduation with PGDBA from AICTE recognised institution OR
- (c) 3-year Graduation with 6 month Management Diploma from an institution and min 1 year managerial / supervisory experience in reputed organization thereafter OR
- (d) 3-year Graduation and min 3 year managerial/ supervisory experience in a reputed organization thereafter.

Additional Fees: In addition to the normal fees, an additional lateral entry fee of Rs.3,700/- (including examination fees) is payable by students opting for this scheme.

Note: In this lateral entry scheme, students have to appear and pass the first semester examination. Books of first semester will be supplied by the University and internal assessment will be completed at the Learning Center.

Second Semester

Core Subjects		
Sub. Code	Title	Credit
MB0028	Production and Operations Management	3
MB0029	Financial Management	3
MB0030	Marketing Management	3
MB0031	Management Information System	3
MB0032	Operations Research	3
MB0033	Project Management	3
Total Credits		36

Fourth Semester

Core Subjects + Specialization Subjects		
Sub. Code	Title	Credit
MB0036	Strategic Management and Business Policy	3
MB0037	International Business Management	3
Four Subjects in area of Specialization (2 credits each)		8
Project@		4
Total Credits		68

Specialization

Third Semester

Finance		
Sub. Code	Title	Credit
MF0001	Security Analysis & Portfolio Management	2
MF0002	Mergers & Acquisitions	2
MF0003	Taxation Management	2
MF0004	Internal Audit & Control	2
MF0005	Project@	

Marketing		
Sub. Code	Title	Credit
MK0001	Sales, Distribution & Supply Chain Management	2
MK0002	Consumer Behavior	2
MK0003	Retail Marketing	2
MK0004	Market Research	2
MK0005	Project@	

Human Resource Management		
Sub. Code	Title	Credit
MU0001	Manpower Planning & Re-sourcing	2
MU0002	Management & Organizational Development	2
MU0003	Employee Relations Management	2
MU0004	HR Audit	2
MU0005	Project@	

Information Systems		
Sub. Code	Title	Credit
MI0024	Software Engineering	2
MI0025	Database Management Systems (DBMS)	2
MI0026	Computer Networks	2
MI0027	Business Intelligence & Tools	2
MI0028	Project@	

Banking		
Sub. Code	Title	Credit
MA0027	Financial Systems & Commercial Banking	2
MA0028	Banking Related Laws & Practices	2
MA0029	Banking Operations	2
MA0030	Retail Banking	2
MA0031	Project@	

Retail Operations		
Sub. Code	Title	Credit
ML0001	Warehousing & Supply Chain Management	2
ML0002	Buying & Merchandising	2
ML0003	Store Operations	2
ML0004	Retail IT Management	2
ML0005	Project@	

Fourth Semester

Finance		
Sub. Code	Title	Credit
MF0006	International Financial Management	2
MF0007	Treasury Management	2
MF0008	Merchant Banking & Financial Services	2
MF0009	Insurance & Risk Management	2
MF0005	Project@	4

Marketing		
Sub. Code	Title	Credit
MK0006	Services Marketing & Customer Relationship Management	2
MK0007	Advertising Management & Sales Promotion	2
MK0008	e-Marketing	2
MK0009	International Marketing	2
MK0005	Project@	4

Human Resource Management		
Sub. Code	Title	Credit
MU0006	Compensation Benefits	2
MU0007	Performance Management & Appraisal	2
MU0008	Talent Management & Employee Retention	2
MU0009	Change Management	2
MU0005	Project@	4

Information Systems		
Sub. Code	Title	Credit
MI0029	Enterprise Resource Planning (ERP)	2
MI0030	e-Commerce	2
MI0031	Technology Management	2
MI0032	Java and Web Design	2
MI0028	Project@	4

Banking		
Sub. Code	Title	Credit
MA0032	Merchant Banking & Financial Services	2
MA0033	Treasury Management	2
MA0034	Corporate Banking	2
MA0035	Institutional Banking	2
MA0031	Project@	4

Retail Operations		
Sub. Code	Title	Credit
ML0006	Services Marketing & Customer Relationship Management	2
ML0007	Advertising Management & Sales Promotion	2
ML0008	Mall Management	2
ML0009	Project Management	2
ML0005	Project@	4

@ The project work will commence from Semester 3 and is expected to be completed in Semester 4. Evaluation will be conducted in Semester 4.

(Revised Fall 2007)

The world has become a small village due to the revolution in Information Technology. It has affected almost all walks of life, be it business, education, entertainment services and healthcare.

This course is designed to produce a dynamic breed of computer professionals with excellent managerial skills. Emphasis is given to in-depth studies of numerous application-oriented subjects, covering various methodologies to develop software products efficiently by utilizing advance networking technologies and application software.

PGDCA is an initiation course for students who want to become skillful and knowledgeable IT professionals. The program gives fundamental knowledge of computers, operating systems, internet, computational techniques, file & data structure and the core of programming. After successful completion of the first two semesters of MCA, if a student wishes to discontinue the course, such a student shall be awarded the Post Graduate Diploma in Computer Application [PGDCA].

MCA is a course of 6 semesters with the provision of multiple exit degree system. Depending on the qualifications & conditions specified, different options are presented here.

Objectives: The program aims at realizing the following objectives-

- Providing specialization in computer science with technical, professional and communications skills.
- Train future industry professionals.

Eligibility: 3 year Graduation

Semester Fee: I & II Semester: Rs.10,450/- per semester, III, IV, V and VI semester: Rs.11,450/- per semester inclusive of exam fees or as revised from time to time.

Minimum duration: 1 year (2 semesters) {for PGDCA}; 2 years (4 semesters) {for MScCS}; 3 years (6 semesters) {for MCA}.

Maximum duration: 2 years {for PGDCA}; 4 years {for MScCS}; 6 years {for MCA}.

Minimum counseling and hands-on experience at Learning Centers: 240 hrs/semester.

*For the list of approved institutions visit our website <http://dde.smuhmts.edu>

Program Structure

First Semester

Sub. Code	Title	Credit
MC0061	Computer Programming "C Language"	4
MC0062	Digital Systems, Computer Organization & Architecture	4
MC0063	Discrete Mathematics	4
MC0064	Basic Web Development (Internet, HTML, Stylesheets & Basics of Multimedia)	4
MC0065	Financial Management & Accounting	4
Total Credits		20

Second Semester

Sub. Code	Title	Credit
MC0066	OOPS using C++	4
MC0067	Database Management System (DBMS and Oracle 9i)	4
MC0068	Data Structures using C	4
MC0069	System Analysis & Design (SAD)	4
MC0070	Operating Systems with Unix	4
Total Credits		40

Provision for lateral entry to the second semester of MCA : Eligibility:

(a) 3 year graduation and six month Computer course from a reputed institution*.

Additional Fees: In addition to the normal fees, an additional lateral entry fee of Rs.3,700/- (including examination fees) is payable by the students opting under this scheme.

Note: In this Lateral Entry Scheme, students have to appear and pass the First Semester Examination. Books of First semester will be supplied by the University and Internal Assessment will be completed at the Learning centre.

Third Semester

Sub. Code	Title	Credit
MC0071	Software Engineering	4
MC0072	Computer Graphics	4
MC0073	System Programming	4
MC0074	Statistical & Numerical Methods using C++	4
MC0075	Computer Networks	4
Total Credits		60

Provision for lateral entry to the third semester of MCA :
Eligibility:

(a) BCA/BSc(IT/CS/AIT)/BE/BTech(IT/CS/E&C/E&E) from a recognized University. **This category is not eligible for exit qualification for MSc CS.**

OR

(b) 3 year graduation with PGDCA/PGDIT or equivalent from a recognized University/successful completion of A level course from DOEACC after graduation .

OR

(c) 3 year graduation with 2 year diploma from CMC/ET&T/NIIT/APTECH/ 2 years Advanced Diploma in IT from Centre for Electronic Design and Technology of India(CEDIT). **This category is not eligible for exit qualification for MSc CS.**

Additional Fees: In addition to the normal fees, an additional lateral entry fee of Rs.3,700/- (including examination fees) is payable by the students opting under this scheme.

Note: In this Lateral Entry Scheme, students have to appear and pass the Second Semester Examination. Books of second semester will be supplied by the University and Internal Assessment will be completed at the Learning centre.

Fourth Semester

Sub. Code	Title	Credit
MC0076	Management Information Systems	4
MC0077	Advanced Database Systems	4
MC0078	Java Programming	4
MC0079	Computer Based Optimization Methods (Statistics/Applied OR)	4
MC0080	Analysis & Design of Algorithms	4
Total Credits		80

After successful completion of the first four semesters of MCA, if a student wishes to discontinue the course, such a student shall be awarded the Master of Science in Computer Science (MScCS).

Note: MScCS students who wants to continue their MCA need to surrender Provisional Certificate and MScCS Degree Certificate at the time of applying for their MCA Degree Certificate.

Fifth Semester

Sub. Code	Title	Credit
MC0081	.(DOT)Net Technologies	4
MC0082	Theory of Computer Science	4
MC0083	Object Oriented Analysis & Design using UML	4
MC0084	Software Project Management & Quality Assurance	4
MC0085	Advanced Operating Systems (Distributed Systems)	4
Total Credits		100

Sixth Semester

Sub. Code	Title	Credit
MC0086	Digital Image Processing	4
MC0087	Internetworking with TCP/IP	4
MC0088	Data Warehousing & Data Mining	4
MC0089	Project	8
Total Credits		120

This course is intended to make commerce education more meaningful and relevant so as to cater to the need of the hour in the business world.

Objectives: The program aims at realizing the following objectives-

- To enable the students to acquire the necessary skills and strategies to cope with ever increasing requirements of industries and businesses in the globalized era.
- To help the students to acquire up-to-date knowledge of information technologies and business trends.
- To compete in the global market for BPO, outsourcing and other international jobs.
- To equip students with computer knowledge, accounting software as well as software programming, e- banking, etc.

Eligibility: 3 year Graduation in Commerce / Economics / Banking / Finance / Insurance / Accounting.

Semester Fee: Rs.7,200/- per semester inclusive of examination fees or as revised from time to time

Minimum duration: 2 years (4 semesters).

Maximum duration: 4 years.

Minimum counseling and hands-on experience at Learning Centers: 160 hrs/semester.

Lateral entry to the second semester of MComIS :

Eligibility: 3-year Graduation with at least 3 years of experience in Banking / Finance / Insurance / Accounting sector thereafter.

Additional Fees: In addition to the normal fees, an additional lateral entry fee of Rs.3,700/- (including examination fees) is payable by the students opting under this scheme.

Note: In this lateral entry scheme, students have to appear and pass the first semester examination. Books of first semester will be supplied by the University and internal assessment will be completed at the Learning Center.

Program Structure

First Semester		
Sub. Code	Title	Credit
MM0001	Management Process & Organization Behavior	4
MM0002	Economic Analysis (Production & Pricing)	4
MM0003	Management Accounting	4
MM0004	Fundamentals of Computer Applications	2
MM0005	Business Environment	2
Total Credits		16

Second Semester		
Sub. Code	Title	Credit
MM0006	Database Management System	4
MM0007	Financial Management	4
MM0008	Fundamentals of e-Business & C Programming	4
MM0009	Economics of Business Growth	2
MM0010	Visual Basic	2
Total Credits		32

Third Semester		
Sub. Code	Title	Credit
MM0011	Accounting Theory (new standards)	4
MM0012	Secured e-Commerce Transaction & Object Oriented Programming	4
MM0013	Electronic Banking & Transactions	4
MM0014	Business Policy	2
MM0015	Company Law & New Regulatory Mechanics of Business	2
Total Credits		48

Fourth Semester		
Sub. Code	Title	Credit
MM0016	International Business and Accounting	4
MM0017	Information System Audits & Control	2
MM0018	Business Data Communication	2
MM0019	Elective *	8
Total Credits		64

* Under elective, students can select any one of the following group.

Group1

MM1901	Marketing Management and Marketing Research	4 Credits
MM1902	Internet Marketing	4 Credits

Group2

MM1903	Security Analysis and Portfolio Management	4 Credits
MM1904	Insurance and Risk Management	4 Credits

(Revised Fall 2007)

Bioinformatics often interchangeably used with Computational Biology is an integrated subject encompassing applied Mathematics, Statistics, Computer Science, Chemistry and Biochemistry to solve Biological problems usually at the molecular level. Bioinformatics is directed towards the study of sequence alignment, gene finding, genome assembly, protein structure alignment, protein structure prediction, prediction of gene expression and protein protein interaction and the phylogenetic modeling and evolutionary relationship. With its unparalleled strength in the area of Information Technology, India is on the brink of a major revolution in the area of Biotechnology and Bioinformatics is one of the emerging areas where there is a great potential for career opportunities.

The first two semesters of the course cover topics required for a sound knowledge of both Biology- related and IT subjects. These include Cell Biology and Genetics, Immunology, Biochemistry, Molecular Biology, Mathematics and Statistics, Linux Programming, Programming in C, Python, and Biological Databases & Sequence Analysis. After successful completion of first two semesters of MScBI, if a student wishes to discontinue, such a student will be awarded the PG Diploma in Bioinformatics (PGDBI).

The Third and Fourth semesters aim at providing students with advanced training in areas like Genomics, Proteomics, Drug Design and Discovery, Programming with PERL and JAVA, DBMS, Data Warehousing and Algorithms in Bioinformatics. At the end of each even semesters (Second & Fourth) the students have to complete a Project Work.

Objectives: The program aims at realizing the following objectives-

- To provide the students with the requisite knowledge that will enable them to pursue a career in Bioinformatics either in academics or in industry.
- To Impart in-depth training in theoretical and practical aspects of applications of Information Technology to solve problems in Biology.
- To enable the students to acquire an integrated outlook of the subject so that they could become potential researchers in the fields of Biotechnology and Bioinformatics.

Eligibility: MSc / BSc in Life Sciences (like Chemistry/ Botany/ Zoology) / BE / PG (with specialization like Molecular Biology/ Biochemistry / Genetics / Microbiology/ Structural Biology / Neurosciences / Pharmaceutical Sciences / Veterinary Sciences / Food Sciences / Agricultural Sciences / Biotechnology / Physics/ Chemistry / Mathematics / Statistics) / MBBS / BDS / M.Pharm/ B.Pharm / IT professionals with a background in specialized tools and database programs.

Semester Fee: Rs.16,450/- per semester inclusive of examination fees or as revised from time to time.

Minimum duration: 1 year (2 semesters) {for PGDBI}; 2 years (4 semesters) {for MScBI}.

Maximum duration: 2 years {for PGDBI}; 4 years {for MScBI}.

Minimum Counseling and hands-on experience at Learning Centers: 160 hrs/semester.

Program Structure

First Semester

Sub. Code	Title	Credit
BI0024	Cell Biology & Genetics	4
BI0025	Immunology	2
BI0026	Biochemistry	4
BI0027	Linux	2
BI0028	Mathematics & Statistics	4
Total Credits		16

Second Semester

Sub. Code	Title	Credit
BI0029	Molecular Biology	4
BI0030	Biological Databases & Sequence Analysis	4
BI0031	Programming for Bioinformatics I (C Programming)	4
BI0032	Programming for Bioinformatics II (Python, HTML, XML)	2
BI0033	Project	2
Total Credits		32

Third Semester

Sub. Code	Title	Credits
BI0034	Genomics	2
BI0035	Proteomics	2
BI0036	Programming for Bioinformatics III (PERL)	4
BI0037	Programming for Bioinformatics IV (JAVA Programming)	4
BI0038	Database Management Systems	4
Total Credits		48

Fourth Semester

Sub. Code	Title	Credits
BI0039	Drug Design & Discovery	4
BI0040	Algorithms in Bioinformatics	4
BI0041	Data Ware Housing and Data Mining	4
BI0042	Project	4
Total Credits		64

Master of Science in Information Technology

MScIT

Post Graduate Diploma in Information Technology

PGDIT

The MSc-IT program is aimed at designing and implementing advanced traditional computing environment. IT architecture is an integrated framework for acquiring and evolving IT to achieve strategic goals. It has both 'logical' and 'technical' components. The logical components include mission, functional and informational requirements, system configurations, and information flows. The technical components include IT standards and rules that will be used to implement the logical architecture. It therefore includes both computing and communication network technology in the same world.

The primary objectives of the program are as under:

- To equip postgraduate students with an integrated set of skills that will allow them to develop their professional careers in Information Technology.
- To equip students with the theoretical and practical knowledge that is necessary to enable them to understand the design of complex computer applications/science.
- The program also prepares students to embrace future developments in the field and has a demonstrated professional relevance.
- The program helps students to acquire the latest skills and build their future capabilities using world-class technology. At the end of this program, the student will possess a strong foundation of computer systems and information technology.
- Dexterity in advanced programming languages; power to build sophisticated software for wide area of applications.
- Skills to work with higher end applications in internet technologies; also managerial ability to analyze, design, develop and to maintain software development.

Eligibility : 3 year Graduation.

Semester Fee: Rs.9,450/- per semester inclusive of examination fees or as revised from time to time.

Minimum duration : 2 years (4 semesters).

Maximum duration : 4 years.

Minimum counseling and hands-on experience at learning centers : 160 hrs/semester.

Provision for lateral entry to second semester of MSc IT:

Eligibility:

(a) 3 year Graduation from a recognized university and six month Computer course from a reputed institution*.

OR

(b) BCA/ BSc (CS/AIT/IT)/ BE/B.Tech. from a recognized university.

Additional Fees: In addition to the normal fees, an additional lateral entry fee of Rs.3,700/- (including examination fees) is payable by the students opting under this scheme.

Note: In this Lateral Entry Scheme, students have to appear and pass the First Semester Examination. Books of First semester will be supplied by the University and Internal Assessment will be completed at the Learning centre.

*For the list of approved institutions visit our website <http://dde.smuhmts.edu>

Post Graduate Diploma in Information Technology [PGDIT]

After successful completion of first two semesters of MSc IT students will be awarded the Post Graduate Diploma in Information Technology [PGDIT].

Program Structure

First Semester

Sub. Code	Title	Credit
MT0031	Basics of IT	2
MT0032	Structured System Analysis & Design [SSAD]	2
MT0033	Data Structure Using ' C '	4
MT0034	DBMS & SQL Server	4
MT0035	Internet and Multimedia	4
Total Credits		16

Second Semester

Sub. Code	Title	Credit
MT0036	Switching and Transmission Fundamentals	2
MT0037	Broadband Communication	2
MT0038	Wireless Mobile Communication	2
MT0039	Artificial Intelligence & Remote Communication	2
MT0040	Visual Basic with .NET Technology	4
MT0041	Computer Architecture	4
Total Credits		32

Third Semester

Sub. Code	Title	Credit
MT0042	C++	2
MT0043	Discrete Mathematics	2
MT0044	IT law and Practice	2
MT0045	JAVA	2
MT0046	Oracle 9i	4
MT0047	Advance Software Engineering	4
Total Credits		48

Provision for lateral entry into third semester of MScIT :

Eligibility: Successful completion of PGDIT (Revised Aug 2005) course from SMU.

Note: Students are eligible to seek admission directly to third semester. Students need not appear for the first and second semester examinations and no lateral entry fee will be applicable.

A maximum gap of one year is allowed for the students to get admitted into this scheme.

Fourth Semester

Sub. Code	Title	Credit
MT0048	Client Server Architecture	2
MT0049	Voice Over IP	2
MT0050	Management Information System [MIS]	2
MT0051	Internet Working with TCP/IP	2
MT0052	JAVA Beans [With Servlets , JDBC, JSP, EJB] & XML	4
MT0053	Project	4
Total Credits		64

The revolutionary changes sweeping through the telecommunications industry have a direct impact on almost every business decision made today. Every major corporate in India, be it domestic or multinational, is viewing the telecom sector as a potential profit earner in the future. The rapidly changing nature of telecom technology calls for highly competent and up-to-date trainers-a most challenging task.

The first and the second semesters of MScTT aim at preparing a graduate to acquire the fundamental knowledge of telecom, networking and IT. Students will be exposed to the latest trends in programming languages and RDBMS.

The third and fourth semesters of MScTT are focused on the core telecommunication subjects, which will help learners to excel in telecom field.

Objectives:

- To develop strong technical competence in modern IT practices in telecom field.
- To impart programming and database handling skills and provide exposure to the latest trends in programming.
- Learn the characteristics of human speech and the generation of electrical signals in modern telephone.

Eligibility: 3 year Graduation.

Semester Fee: Rs.10,450/- per semester inclusive of examination fees or as revised from time to time.

Minimum duration: 2 years (4 semesters)

Maximum duration: 4 years

Minimum counseling and hands-on experience at learning centers: 160 hrs/semester.

Program Structure

First Semester		
Sub. Code	Title	Credit
ME0001	Computer Basics	4
ME0002	C & Object Oriented Programming (OOPS)	4
ME0003	Basic Electronics for Telecom	2
ME0004	Java Programming	2
ME0005	Basic Principles of Networking	4
Total Credits		16

Second Semester		
Sub. Code	Title	Credit
ME0006	Principles of Digital Telecom	2
ME0007	Broadband Communication Network	2
ME0008	Wireless Communication System	2
ME0009	Mathematics for Telecommunications	2
ME0010	Database Management	4
ME0011	Software Engineering	4
Total Credits		32

Provision for lateral entry to second semester of MScTT :

Eligibility:

(a) BCA / BSc (IT/CS/AIT) / BE / B Tech from a recognized university.

OR

(b) 3-year Graduation with PGDCA/PGDIT or equivalent from a recognized university / successful completion of A level course from DOECC after graduation.

OR

(c) 3-year Graduation with 2 year Diploma from CMC / ET&T / NIIT/APTECH/2 year advanced Diploma in IT from Center for Electronic Design & Technology of India (CEDTI).

Additional Fees: In addition to the normal fees, an additional lateral entry fee of Rs.3,700/- (including examination fees) is payable by students opting for this scheme.

Note: In this lateral entry scheme, students have to appear and pass the first semester examination. Books of first semester will be supplied by the University and internal assessment will be completed at the Learning Center.

Third Semester		
Sub. Code	Title	Credit
ME0012	Overview of Telecom Technology	4
ME0013	Switching & Transmission Fundamentals	4
ME0014	New Generation Networks (Optical Base Network)	2
ME0015	Signaling System Number7	2
ME0016	WML Script & WAP	2
ME0017	Client Server Architecture	2
Total Credits		48

Fourth Semester		
Sub. Code	Title	Credit
ME0018	Voice over IP	4
ME0019	Geographical Information System	2
ME0020	Artificial Intelligence & Remote Communication	2
ME0021	Billing & Customer Care	2
ME0022	Telecommunication Regulation, Market and Service	2
ME0023	Project	4
Total Credits		64

Sikkim Manipal University

Disciplines

Information Technology

Diploma

- Diploma in Information Technology (DIT)

Bachelor's Degree

- Bachelor of Science in Information Technology (BScIT)
- Bachelor of Computer Application (BCA)
- Bachelor of Science in Infrastructure Management System (BScIMS)

PG Diploma

- PG Diploma in Information Technology (PGDIT)
- PG Diploma in Computer Application (PGDCA)
- PG Diploma in Infrastructure Management System (PGDIMS)

Master's Degree

- Master of Science in Information Technology (MScIT)
- Master of Computer Application (MCA)
- Master of Science in Computer Science (MScCS)

Management

Bachelor's Degree

- Bachelor of Business Administration (BBA)
- Bachelor of Business Administration in Retail Operations (BBARO)

PG Diploma

- PG Diploma in Business Administration (PGDBA)

Master's Degree

- Master of Business Administration (MBA)
Specialization in
 - Banking
 - Finance
 - Human Resources
 - Information Systems
 - Marketing
 - Retail Operations

Commerce

Bachelor's Degree

- Bachelor of Commerce in Information System (BComIS)

Master's Degree

- Master of Commerce in Information System (MComIS)

Journalism and Mass Communication

Bachelor's Degree

- Bachelor of Arts in Journalism and Mass Communication (BAJM)

Master's Degree

- Master of Arts in Journalism and Mass Communication (MAJM)

Biotechnology and Bioinformatics

Bachelor's Degree

- Bachelor of Science in Applied Biotechnology (BScBT)

PG Diploma

- PG Diploma in Bioinformatics (PGDBI)

Master's Degree

- Master of Science in Bioinformatics (MScBI)

Fashion Design

Bachelor's Degree

- Bachelor of Science in Fashion Design (BScFD)

Allied Health Science

Certificate / Diploma

- Diploma in Health Information Administration (DHIA)
- Diploma in Medical Laboratory Technology (DMLT)
- Diploma in Medical Imaging Technology (DMIT)

Bachelor's Degree

- Bachelor of Science in Health Information Administration (BScHIA)
- Bachelor of Science in Medical Imaging Technology (BScMIT)
- Bachelor of Science in Medical Laboratory Technology (BScMLT)

Master's Degree

- Master of Business Administration in Health Care Services (MBAHCS)
- Master of Science in Clinical Research and Regulatory Affairs (MScCRRRA)

Hospitality and Tourism

Bachelor's Degree

- Bachelor of Science in Hospitality & Catering Management (BScHCM)

PG Diploma

- Post Graduate Diploma in Travel and Tourism Management (PGDTTM)

Telecom Technology

Master's Degree

- Master of Science in Telecom Technology (MScTT)

Ecology and Environmental Science

Master's Degree

- Master of Science in Ecology and Environment (MScEE)
- Master of Science in Disaster Mitigation (MScDM)
- Master of Science in Sustainable Development (MScSD)
- Master of Science in Total Quality Management (MScTQM)
- Master of Science in Geo-Informatics (MScGI)
- Master of Science in Eco-Tourism (MScET)
- Master of Science in Pollution Control (MScPC)

Manipal Universal Learning

Manipal Universal Learning (Manipal U) is the Learning Resource Development Center for SMU. In this role, Manipal U has been engaged in promoting and supporting distance education initiatives. Manipal U provides strong logistic, distributive, infrastructural and related support through the Learning Centers. This includes due diligence, identification of training requirements and other related administrative and logistical support, to make the program more effective as well as add value for the registered learners. Manipal U has also established its studios at Manipal, Bangalore and Mumbai for delivering the lectures using VSAT technology. The transmission is one-way video and two-way audio. The studio is equipped with the most sophisticated video, audio and broadcasting systems including three sets of studio cameras, video mixers, editing equipments and interactive software systems, creating virtual class rooms. Manipal U works closely with SMU to ensure clear policy, strategic direction and other logistic support including identifying areas of alliance and co-operation.

The broad areas of support include:

- Infrastructure and student support services
- Co-ordinating the delivery support
- Developing learning technology support services
- Ensuring VSAT operations for dissemination of programs
- Identification of faculty capability and implementing the required training under the supervision and direction of SMU
- Ongoing review and monitoring the Learning Centers and other functioning

The main aim of Manipal U is to support and provide the delivery platform to ensure greater quality education and enhance equity of access.

Manipal U

MANIPAL UNIVERSAL LEARNING PRIVATE LIMITED
available • accessible • affordable • personalised education

Calendar of events

Registration

Last Date for receipt of Registration Form without late fee
29th February 2008

Last Date for receipt of Registration Form with late fee of
Rs. 500/- 02nd April 2008

Last Date for receipt of Registration Form with late fee of
Rs. 1000/- 15th May 2008

Re-Registration

Last Date for receipt of Re-Registration Form without late
fee 18th February 2008

Last Date for receipt of Re-Registration Form with late fee of
Rs. 500/- 17th March 2008

Last Date for receipt of Re-Registration Form with late fee of
Rs. 1000/- 15th April 2008

Re-sitting form

Last Date for receipt of Re-sitting form without late fee
30th April 2008

Last Date for receipt of Re-sitting form with late fee
15th May 2008

Re-Admission

Last Date for receipt of Re-Admission forms 15th April 2008

Project / Viva/Practical starting date : 1st week of June 2008

Project / Viva/Practical ending date : 15th June 2008

IA/Project/Practical marks to be
submitted to COE by LCs : 23rd June 2008

Admit cards to be
despatched to LC : 30th June 2008

University Examination Starts : 17th July 2008

The above dates are tentative .

Visit <http://dde.smuhts.edu> for confirmation.

Please contact us for further details:

Director & Dean

Directorate of Distance Education,
Sikkim Manipal University of Health Medical
& Technological Sciences

I Floor, Syndicate House,
Manipal - 576104.

Telephone - (General) - 91-820-4297000

Fax - 91-820-2571959

e-mail: smu.directorde@manipalu.com

Additional Registrar

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Sikkim Manipal University of Health Medical
& Technological Sciences

I Floor, Syndicate House,
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Telephone - (General) - 91-820-4297000

(Helpdesk) - 91-820-4297101, 4297111

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Controller of Examinations

Directorate of Distance Education,
Sikkim Manipal University of Health, Medical &
Technological Sciences

1 Floor, Corporation Bank Building,
Manipal - 576 104

Telephone 91- 820-4297200

Fax 91- 820 -2573008

e-mail: smu.controllerde@manipalu.com

SMU Regional Office (North)

256, Ground Floor,
Okhla Industrial Estate, Phase - III,
Opposite Post Office,
New Delhi - 110020
Telephone - 91-11-40555000
Fax - 91-11-40555032
e-mail: denorth@manipalu.com

SMU Regional Office (East)

Premlata Building, 3rd floor
39, Shakespeare Sarani
Kolkata-700017
Telephone - 91-33-22894180 / 81 / 82
Fax - 91-33-22894181
e-mail: deeast@manipalu.com

SMU Regional Office (South)

Manipal Towers,
#14, Airport Road, HAL II Stage
Bangalore - 560008
Telephone - 91-80-25212777
Fax - 91-80-25202403
e-mail: desouth@manipalu.com

SMU Regional Office (West)

Laxmi Towers, C - 25, G - Block,
B - 5, 2nd Floor, Behind ICICI Bank,
Bandra Kurla Complex, Bandra (E),
Mumbai - 400051.
Telephone - 91-22-26541637 (4 Lines)
Fax - 91-22-26541635
e-mail: dewest@manipalu.com

For list of learning centers visit: www.dde.smuhts.edu

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Sikkim Manipal University of Health, Medical and Technological Sciences
5th Mile, Tadong, Gangtok - 737102 Sikkim <http://dde.smuhts.edu>

Manipal

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