

Karnataka State Open University
Manasagangotri, Mysore 570006

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From V.C's Desk: -

Dear Student,

By 2020 every education and training program leading to a qualification will be available in full time, part time and through distance learning. Out of this the third option will have more relevancy. Distance education will provide whatever educational opportunities are needed by anyone, anywhere at anytime. The end result of this will be increased educational opportunities for broader segments of the population, accommodating different situations and different needs.

Distance education builds self-discipline, self-confidence, enduring personality and also makes one face challenges independently. It will be helpful to adults, partially qualified / skilled workers, homebound, disabled and nonnative language students who are less qualified and could not pursue regular education because of cost and lack of opportunities. When demand of employees with good qualification increases distance education will help to fulfill it, create more career options and increase employment areas.

KSOU has been a pioneer in the field of distance education and its desire is to impart higher education to all those desiring and deserving. Since its inception in 1996, it has been rendering yeomen service to the student community. At present, KSOU has more than one lakh Students studying in various disciplines.

Sharada Vikas Trust (SVT) has been in the field of education for nearly a decade and has built it up with commitment and utmost sincerity with well-qualified personnel and infrastructure. Sharada Vikas Trust is interested to have additional technical, Management and Hospitality programs from our university. The programmes are B.Tech (CS), BCA, MCA, Integrated MCA, MBA (IS), B.Sc(HCM) and M.Sc(HTM). We feel these courses can be of great help to needy students. We are happy to associate with SVT to start these courses, as they will be of utmost use to our needy students so that over years they can qualify to become good engineers.

The courses are specially designed so that the students go through the state-of-art subjects for the present scenario. It will be the earnest endeavor of KSOU and SVT to impart quality education together so that the out going students are better equipped comparatively. They will be supported with many study centers located in significant cities both inside and outside the country.

I wish that the students take these courses with commitment and utmost sincerity. Also take good help from the committed staff of the study centers and KSOU.

Thank you very much for joining us in this endeavor of nation building through higher education with distance learning from KSOU and SVT.

Prof. B.A. Viveka Rai
Vice Chancellor

Karnataka State Open University Overview

Introduction

The Karnataka State Open University established on 1st June 1996 vide Karnataka Govt. Notification No. ED 1 UOV 95 dated 12th February 1996 - KSOU Act 1992 is considered to be a reputed Open University amongst the open learning institutions in the country. Keeping in view the educational needs of our country, in general, and state in particular the policies and programmes have been geared to cater to the needy.

Karnataka State Open University is a recognized University of Distance Education Council (DEC), New Delhi, regular member of the Association of Indian Universities (AIU), Delhi, permanent member of Association of Commonwealth Universities (ACU), London, UK, Asian Association of Open Universities (AAOU), Beijing, China, and also has association with Commonwealth of Learning (COL).

KSOU: National – International Recognition

- **Karnataka State Open University (KSOU)** was established on 1st June 1996 with the assent of H.E. Governor of Karnataka as a full fledged University in the **academic year 1996 vide Government notification no ED 1 UOV 95 dated 12th February 1996 (KSOU Act – 1992)**. The Act was promulgated with the object to incorporate an Open University at the State level for the introduction and promotion of Open University and Distance Education systems in the education pattern of the State and for the Co-ordination and determination of standard of such systems.
- With the virtue of KSOU Act of 1992, Karnataka State Open University is empowered to establish, maintain or recognize Colleges, Regional Centres and Study Centres at such places in Karnataka and may also open outside Karnataka at such places as it deems fit.
- **Distance Education Council (DEC), New Delhi**, has accorded recognition to Karnataka State Open University, Mysore for offering Programmes / Courses approved by the Statutory bodies of the University. **Karnataka State Open University is a recognized University of Distance Education Council under the agies of Ministry of Human Resource Development (MHRD) (Revised notification F. No. DEC/OU/Recog./2008)**.
- Karnataka State Open University is a **regular member of the Association of Indian Universities (AIU)**, New Delhi since 1999 (No. EV/11(80)/99/203935-4172).

- Karnataka State Open University is a **permanent member of Association of Commonwealth Universities (ACU), London, United Kingdom** since 1999. Its member code is: ZKASOPENUINI.
- Karnataka State Open University is a **permanent member of Asian Association of Open Universities (AAOU), Beijing, China** since 1999.
- Karnataka State Open University has **association with Commonwealth of Learning (COL), Vancouver, Canada since 2003**. COL is an intergovernmental organization created by Commonwealth Heads of Government to encourage the development and sharing of open learning / distance education knowledge, resources and technologies

Special Features

The Open-Distance-Learning (ODL) system is a unique and challenging mode of education offered at the University level. This system provides ample opportunities for those who desire to have University education at their place of work or residence. This method is popularly known as Distance Education. It is perhaps the only way to meet the ever-increasing demand for Higher Education especially in a developing country like India. Distance Education programmes are specially designed for:

- a) Candidates who discontinue their formal education owing to pecuniary or other circumstances
- b) Candidates residing in geographically remote areas
- c) Candidates who cannot get admission to a regular college / Post-graduate department
- d) Employed persons who cannot pursue their study as full-time candidates
- e) Individuals who wish to pursue learning for knowledge sake
- f) Candidates who wish to update knowledge and skills

The Open-Distance-Learning (ODL) system is perhaps the only system that has been planned in such a way that it is able to cater to all those who desire to seek Higher Education in spite of the fact that they are in a disadvantageous position due to social, economic, spatial and such other reasons. Also to cater to the increasing demand for Higher Education, flexibilities in terms of age, qualification, location, time, etc., have been introduced to the maximum extent.

About the Vikas Group:

Vikas Group comprising of Vikas Global Solutions Ltd., Vikas Microchip Technologies, Vikas Outsourcing solutions SDN.BHD, Biogene, Maithreyi and Sharada Vikas Trust has 13 years of

background. The group has diversified into various activities as a leading technology solution provider in the areas of software Development, Internet and intranet based solutions, IT enabled services, GPS solutions, Bio Metric solutions, Technology based products distribution and Corporate Education services and Distance education. The group has also significant presence in Biotechnology, Agriculture and energy sector.

About Sharada Vikas Trust:

Sharada Vikas Trust^(R) was formed to provide and establish High-end research and educational service in the areas of Medical, Engineering, Biotechnology and Management based institutions across India as well as abroad. The Trust is also involved in empowering of Poor, Orphans, and Physically handicapped and other differently abled people. Eminent people who are well qualified and have great concern about the well being of the Society run the Trust.

Sharada Vikas Trust^(R) is running a PU College with science and commerce branches under the name of **Sharada Vikas PU college**. It has also established a UG and PG College under the name “**SHARADA VIKAS INSTITUTE OF TECHNOLOGY AND MANAGEMENT STUDIES**” (SVITMS) where BCA, BBM, B.Com. B. Sc.(CS), BA and PGDM courses are offered under “Bangalore University”. With over fifteen years of experience in IT industry and about a decade of service in Education, and with highly skilled and experienced professionals and committed staff, Sharada Vikas Trust is aiming at giving good and reputed education at a very reasonable cost and uplift the socio-economic standards of the society.

PHILOSOPHY OF DISTANCE EDUCATION

Education at present is a very costly commodity. In the present scenario lots of youngsters who pass out of 10th Standard/ 10+2/ Diploma or any graduation would knock at the employer’s doors for want of opportunity / finance for higher studies. At the present juncture new opportunities like BPO, finance, banking, health care support services, call centers attract lot of youngsters without having higher education. However, after sometime, being stagnant at that stage only for want of opportunities for higher learning there is always a craving for higher education. At that time however, they will have to earn and learn. It is at this juncture distance education will be of great help and especially qualifying for higher education in Technology, Management, Hospitality and other allied programmes.. It is known that there are not many institutions/schools, which cater to this class. Hardly, we find technical, management and Hospitality institutions leading to UG / PG degrees at that stage. Distance education will be a boon for these employees who want to qualify higher at a reasonable cost. KSOU and SVT together are venturing to do just that.

ACADEMIC SYSTEM FOR THE COURSES

Support Services through study centers: Study centers are being set up all over the country and abroad to provide the candidates a platform to interact with counselors, other candidates and for use of the library. Candidates would be getting personal attention at these centers in addition to the hands-on-training on computers at these centers.

Program Delivery:

A multi-form of instruction has been adopted, comprising of:

- a) **Print material:** Study material for all subjects, which are supplied in the form of books
- b) **Counselling Sessions:** Will be held at Study centers, to suit the convenience of candidates.
- c) **Practical Sessions:** Will also be held at the study centers
- d) **Assignments:** For assessment, evaluation and for feedback of comprehension of study material.
- e) **Project work:** To enable the candidate to gain an insight into independent working on a practical project.

Credit System: The University follows the 'Credit System' for its under-graduate and post-graduate programmes. Each credit entails approximately 30 hours of study comprising of all activities. Thus, a 3-credit course involves 90 study hours. This helps the candidates to understand the academic efforts one has to put in suitably to complete the course.

For the award of class for degrees of B.Tech(CS), MBA (IS), BCA, MCA , integrated MCA, M.Sc (HTM) and B.Sc(HCM) the cumulative performance of the candidates in the final 4-semesters (3rd, 4th, 5th & 6th for BCA and MCA and 7th, 8th, 9th and 10th for Integrated MCA) Pass Class will be considered. However for M.Sc (CS/IT) students entering 3rd semester only MCA degree will be awarded.

Instructional System: The methodology of instruction in this Open University is different from that of the conventional Universities. The Open University system is more learner-oriented, so much so, the candidate has to be invariably an active participant in the teaching-learning process. Most of the instructions are imparted through distance rather than face-to-face communication. The University follows a multi-channel approach for instructions suitably comprising of the following:

- | | |
|--|---|
| a) Self-instructional Printed Material | b) Audio and Video |
| c) Website information | d) Face-to-face Counselling at study centers by Academic Counselors |
| e) Assignments | f) Field based Projects |

To start with, the courses will be delivered on Internet and conventional distance education mode. In due course, it will shift more and more towards on-line interaction between teacher and the taught. Skill and dexterity will be inculcated right from the beginning through interactive computer applications.

Self Instructional Material: Printed materials are the primary form of instructional materials. These are supplied to the candidates in the form of booklets. Therefore, candidates have to rely mainly upon the printed materials, which are sent to them through the study centers. The printed materials would be sufficient to the extent of about 70% to 75% to write any assignment and prepare for the term-end examinations. However, candidates are strongly advised to refer to other sources and texts, suggested under each unit in order to get a comprehensive knowledge of the subject matter.

Counselling Sessions: In distance education, face-to-face contact between the learners and their tutors/counselors is relatively less and therefore counseling is an important activity. The purpose of such a contact is to answer some of the questions and clarify doubts, which may not be possible through any other means of communication. There are experienced academic counselors at the study centers to provide counseling and guidance in the courses that are chosen for study. The candidate will be informed of the program schedule details by the study center Co-ordinators.

It should be noted that the counseling sessions would be very different from the classroom teaching or lectures. Counselling does not mean delivering lectures as in conventional teaching. Counsellors will try to help overcome academic difficulties which one may face while going through the programmes. In these sessions one must try to resolve subject based difficulties and any other related problems.

Before the candidate attends the counseling session, he/she should go through the course material and make notes of the points to be discussed. Unless the units are gone through, there may not be much to discuss. The Co-ordinator of the respective study center will make the detail schedule of the counseling session known to the candidates. Usually, at least 10% of the credit hours will be earmarked for the counseling session.

Assignments: Assignments are an integral part of distance learning. The main purpose of assignments is to test the candidate's comprehension of the learning materials received from the University and also to help better comprehension the courses by providing feedback. The information given in the printed course materials should be sufficient for answering the assignments. However, the candidate may have to refer to other books and references given in the course material to have a compressive knowledge of the subject. But the assignments are generally designed in such a way as to help to concentrate mainly on the printed course material with a fleeting touch to other references. The candidate may also note the following points:

- a) It is compulsory to submit the assignments and will not be allowed to appear for the term-end examination of a course if one does not submit the specified number of assignments in respective courses on time.
- b) All assignments should be submitted to the respective study centers
- c) The assignment responses should be complete in all respects. Before submission the candidate should ensure that one has answered all the questions in the assignments. Incomplete answer sheets will fetch poor grades/marks.
- d) The study center has the right to reject the assignments received after due date. Hence, the candidate is advised to submit the same before the due date.
- d) A copy of the valued assignments will be returned to the candidates along with the marks/grades and the written comments, which serve as a learning exercise for the candidates.
- f) Two per cent (2%) of the evaluated Assignments by the Academic Counsellors will be reviewed by the University from time to time.

Practical Training: Considerable importance is given to hands-on training on computers in this programme. A set of practical exercise for subjects which need laboratory work are available at the study centers as also on the website. Candidate needs to do this practical exercise under the guidance of their study center faculty. Major part of the contact hours at the study centers will be devoted to this laboratory work.

Bachelor of Computer Applications (BCA)

Introduction:

Information technology has become an integral part of modern contemporary society. Life devoid of the knowledge of information technology appears to be gloomy. Information technology has been extended to all the new areas, making its way from making its way from mathematical computation and data processing via office automation to electronic sectors. I-T is becoming so prominent that it is changing every aspect of human life Trade, commerce, communication, manufacturing, service sector, entertainment, education and Global security. In fact, our national agenda for Governance has identified information Technology as one area where India can quickly establish Global dominance. Considering the enormous importance being laid to IT sector, KSOU and SVT have introduced BCA, MCA and IMCA and B.Tech courses for the benefit of students aspiring to be IT giants.

Opportunities:

The IT students have a bright employment potential in the field of trade, commerce, communication, manufacturing, service sector, entertainment, education and global security.

Eligibility/Admission criteria:

General Entry:

A candidate who has completed (10+2) or its Equivalent, can enroll for the 1st semester of Bachelor of Computer Applications (BCA).

A candidate without Mathematics background at PU or (10+2) level will be provided with a **bridge programme** for one semester concurrently with First Semester

Lateral Entry:

- a) A candidate who has a diploma from any recognized technical Board can enroll for the third semester of BCA.

General Exit:

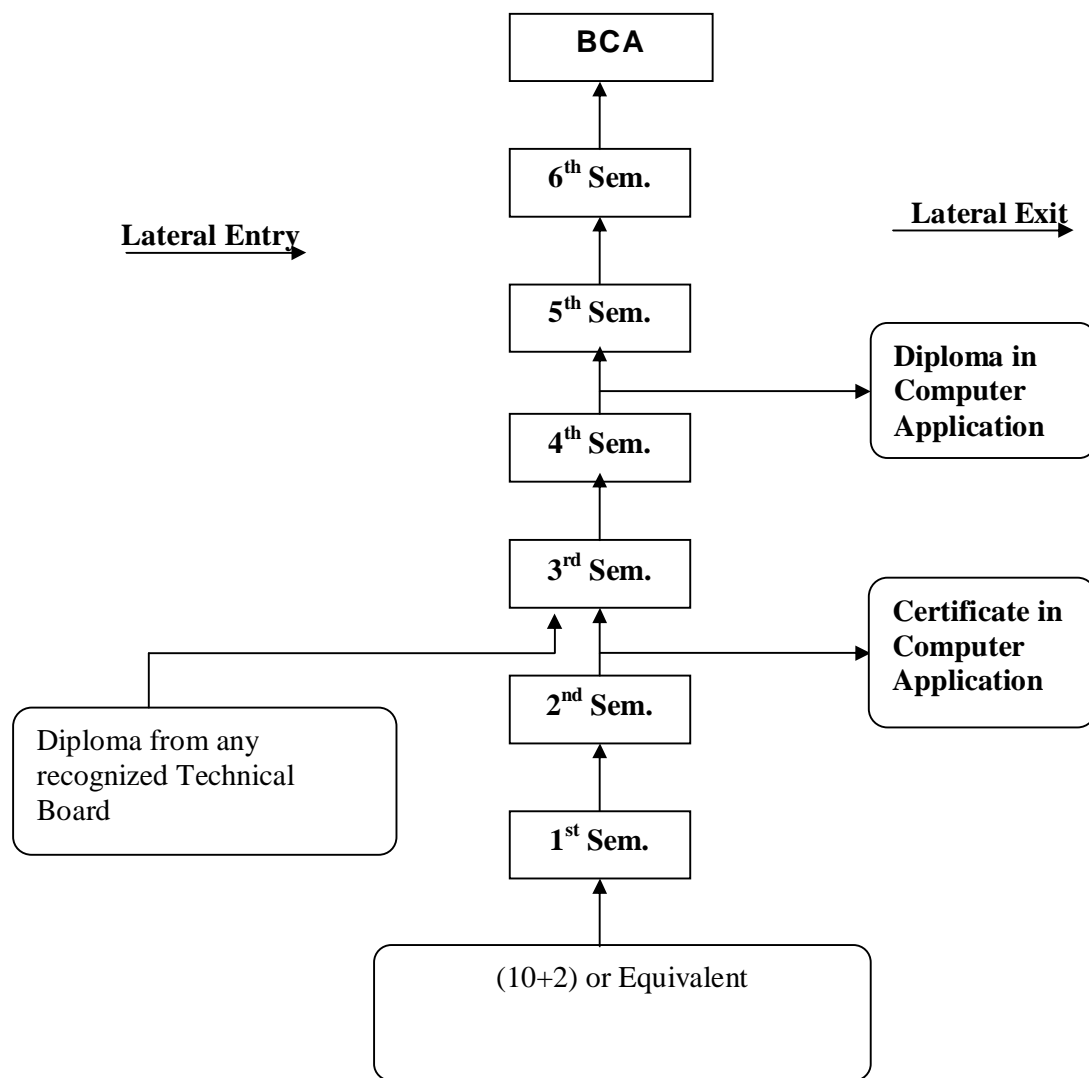
After successful completion of all the six semesters the candidate will be eligible to obtain the degree of Bachelor of Computer Applications (BCA).

Lateral Exit:

- a) After successful completion of the first two semesters, the candidate will be eligible to obtain a **certificate in Computer Application**.
- b) After successful completion of the first four semesters, the candidate will be eligible to obtain a **Diploma in Computer Applications**.

Schematic Representation

Bachelor of Computer Application



BACHELOR OF COMPUTER APPLICATIONS (BCA)

Programme Structure

1st Semester

Subject Code	Subject	Credits
BCA11	Computer Fundamentals and Windows Based Application	3
BCA12	Communication Skills in English	3
BCA13	Programming in C	3
BCA14	Data Structure	3
BCA15-L	C programming Lab	1
BCA16-L	Windows based Application lab	1
	Total Credits	14

2nd Semester

Subject Code	Subject	Credits
BCA21	Mathematics	3
BCA22	Computer Organization and Architecture	3
BCA23	DBMS	3
BCA24	OOPS with C++	3
BCA25-L	C++ Lab	1
BCA26-L	Data Structure Lab	1
	Total Credits	14

3rd Semester

Subject code	Subject	Credits
BCA-31	Data Communication	3
BCA-32	Operating Systems	3
BCA-33	Computer Graphics	3
BCA-34	Client Server Architecture	3
BCA-35-L	Graphics Lab	1
BCA-36-L	DBMS Lab	1
	Total Credits	14

4th Semester

Subject Code	Subject	Credits
BCA41	Software Engineering	3
BCA42	Java Programming	3
BCA43	RDBMS	3
BCA44	Unix and Shell Programming	3
BCA45-L	Java Lab	1
BCA46-L	Unix Lab	1
	Total Credits	14

5 th Semester			6 th Semester		
Subject code	Subject	Credits	Subject Code	Subject	Credits
BCA-51	Algorithm and Analysis	3	BCA61	MIS and Enterprise Resource Planning (ERP)	3
BCA-52	Internet Programming	3	BCA62	Computer Network and Security	3
BCA-53	Application Programming	3	BCA63-L	ADA Lab	1
BCA-54	System Programming	3	BCA64-L	System Programming Lab	1
BCA-55-L	Web Designing/Internet Lab	1	BCA65-L	Project: System Side or Application side	6
BCA-56-L	Application Programming Lab	1			
	Total Credits	14		Total Credits	14

Fee Structure:

KSOU Technical Courses Fee Structure for BCA

Fee→ Semester↓	Registration Fee	Examination fee in Rs.	Tuition fee In Rs.	Total fees	KSOU Share *	SVT Share **
Admission Semester	300	Rs. 1,000/sem	Rs.8,200/Sem	Rs. 9,500/- per Sem	Rs.3,350/- per Sem	Rs. 6,150/- per Sem
Subsequent Semester	Nil	Rs. 1,000/Sem	Rs.8,200/Sem	Rs. 9,200/- per Sem	Rs.3,050 per Sem	Rs. 6,150/- per Sem

Note: A Candidate who changes the course from BCA to Integrated MCA must register again by paying the registration fee for Rs. 500.

* All KSOU fees to be paid in DD form in favor of Finance officer, KSOU payable at Mysore.

**All SVT fee to be paid in DD form in favor of Sharada Vikas Trust^(R) payable at Bangalore

Examination:**a) Theory Subjects:**

Internal Assessment (Based on 2 assignments)	20 marks
Term-end University Examination	80 marks
Total	100 marks

b) Practical:

Internal Assessment (Based on 2 tests) (For each practical)	20 marks
Term-end University Examination (One examination for each practical in a semester)	80 marks
Total	100 marks

c) Project:

Internal Assessment	50 marks
University Examination	100 marks
Total	150 marks

3. Pattern of Question paper

The pattern of question paper for the term end examination is as follows:
The question paper will consist of 3 parts.

Part A – 20 Marks; will have compulsory objective type questions/short answer questions, carrying 1/2 marks each (6x2 marks+1x8 marks).

Part B –30 Marks; candidate has to answer any 6 questions out of 8 questions, each carrying 5 marks.

Part C –30 marks; candidate has to answer any 3 questions out of 5 questions, each carrying 10 marks.

Results:

Minimum required for Pass

Theory/Practical/Project - 32 out of 80 Marks in termend examination and 40 out of 100 including internal assessment marks.

Declaration of Classes

Distinction	More than 70 percent
I Class	More than or equal to 60% but less than 70% Marks
II Class	More than or equal to 50% but less than 60% Marks
Pass	More than or equal to 40% but less than 50% Marks

Master of Computer Applications (MCA)

Introduction:

Information technology has become an integral part of modern contemporary society. Life devoid of the knowledge of information technology appears to be gloomy. Information technology has been extended to all the new areas, making its way from making its way from mathematical computation and data processing via office automation to electronic sectors. I-T is becoming so prominent that it is changing every aspect of human life Trade, commerce, communication, manufacturing, service sector, entertainment, education and Global security. In fact, our national agenda for Governance has identified information Technology as one area where India can quickly establish Global dominance. Considering the enormous importance being laid to IT sector, KSOU and SVT have introduced BCA, MCA and IMCA and B.Tech courses for the benefit of students aspiring to be IT giants.

Opportunities:

The IT students have a bright employment potential in the field of Trade, commerce, communication, manufacturing, service sector, entertainment, education and Global security.

Eligibility/Admission criteria:

General entry:

A candidate who has successfully completed any degree, can enroll for the 1st semester of Master of Computer Applications (MCA).

Lateral Entry

A candidate who has a degree with Department of Electronics and Associated Computer Communication (DOEACC) "A" level or Post Graduate Diploma in Computer Application (PGDCA) or Post Graduate Diploma in Information Technology (PGDIT) of any university or BE (EE, EC, CS, IT or TC) or a graduate who also holds a diploma in Electrical and Electronics (EE), Electronics and Communication (EC), Computer Science (CS), Information Technology (IT), Telecommunication (TC) from any recognized technical board, recognized by KSOU as equivalent or M.Sc (IT/CS) can enroll for the third semester of MCA.

General Exit:

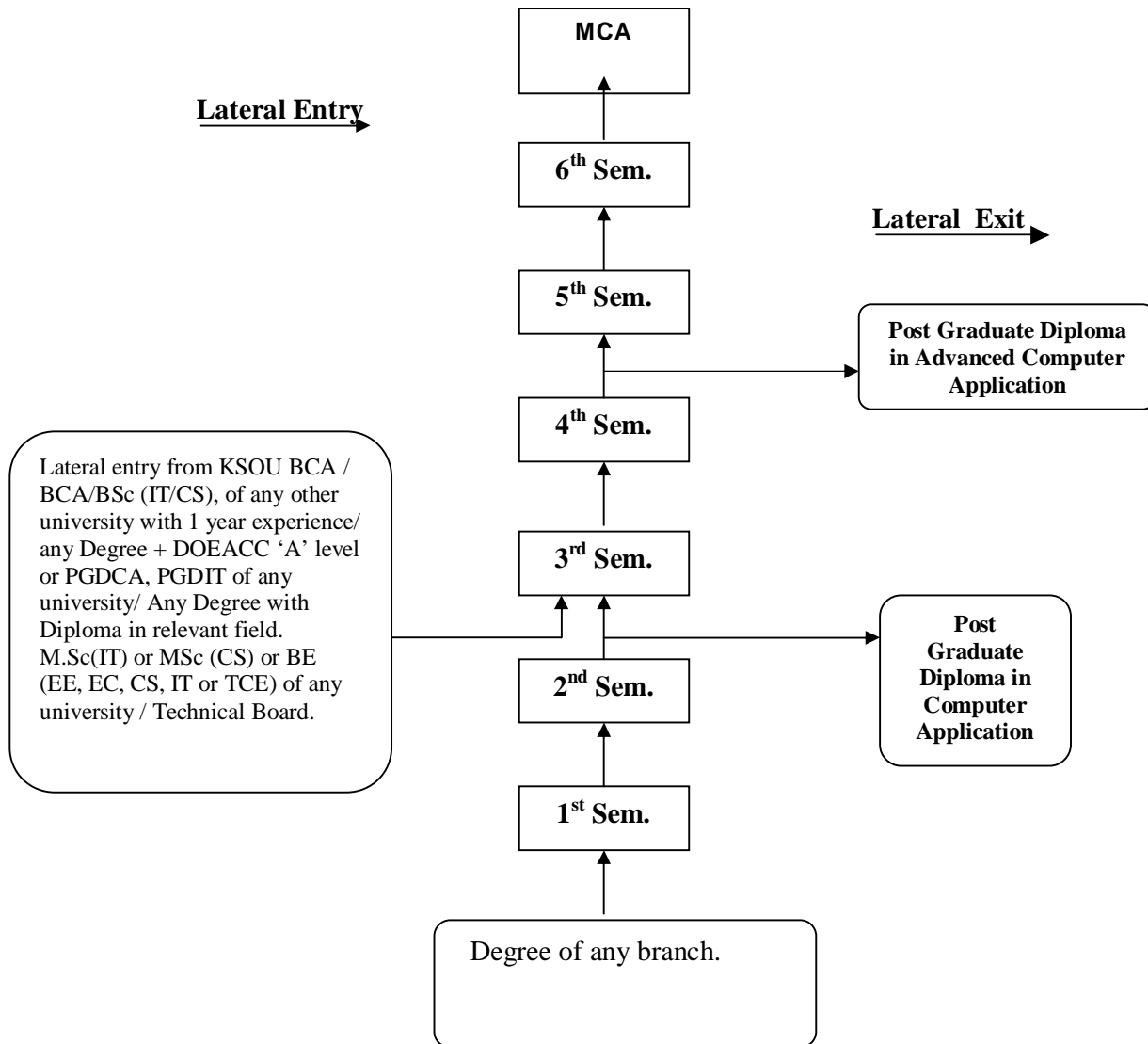
After successful completion of all the six semesters the candidate will be eligible to obtain the degree of Master of Computer Applications (MCA).

Lateral Exit

- a) After successful completion of **the first two semesters**, the candidate will be eligible to obtain a **Post Graduate Diploma in Computer Application**.

- b) After successful completion of the first four semesters, the candidate will be eligible to obtain **Post Graduate Diploma in Advanced Computer Application**.

Schematic Representation
Master of Computer Applications



Mater of Computer Applications

Programme Structure

1st Semester

Subject Code	Subject	Credits
MCA11	Mathematics	4
MCA 12	Data Structure	4
MCA 13	Programming in C	4
MCA 14	Financial Accounting	4
MCA 15-L	C programming Lab and Windows based Application lab	1
MCA 16-L	Data Structure Lab	1
	Total Credits	18

2nd Semester

Subject Code	Subject	Credits
MCA21	Discrete Mathematics	4
MCA22	DBMS	4
MCA23	OOPS with C++	4
MCA24	Computer Organization and Architecture	4
MCA25-L	DBMS Lab	1
MCA26-L	OOPS (C++) Lab	1
	Total Credits	18

3rd Semester

Subject Code	Subject	Credits
MCA31	Data Communication	4
MCA 32	Advanced Computer Graphics	4
MCA 33	Advanced Operating Systems	4
MCA 34	Unix and Shell Programming	4
MCA 35-L	Unix Lab	1
MCA 36-L	Operating Systems Lab	1
	Total Credits	18

4th Semester

Subject Code	Subject	Credits
MCA41	Advanced Software Engineering	4
MCA42	Analysis and Design of Algorithm	4
MCA43	Advanced Java Programming	4
MCA44	System Programming	4
MCA45-L	RDBMS Lab	1
MCA46-L	Advanced Java Programming Lab	1
	Total Credits	18

5st Semester		
Subject Code	Subject	Credits
MCA 51	Advanced Computer Network and Security	4
MCA 52	Internet Programming and Web Designing	4
MCA 53	Data warehousing and Data Mining	4
MCA 54	Elective-1	4
MCA 55-L	Graphics Lab	1
MCA 56-L	Web Designing/Internet Lab	1
	Total Credits	18

6nd Semester		
Subject Code	Subject	Credits
MCA 61	Advanced MIS and E-Commerce	4
MCA 62	Elective-2	4
MCA 63	Elective-3	4
MCA 64	Project	8
	Total Credits	18

Elective-1

- 1) **Complier Design**
- 2) **Mobile Computing and Communication**
- 3) **Simulation and Modeling**

Elective-2

- 1) **Pattern Recognition**
- 2) **Operations Research**
- 3) **Advanced Computer Architecture.**

Elective-3

- 1) **Client Server Architecture**
- 2) **Artificial Intelligence**
- 3) **Network Management.**

Note: In 5th Semester and 6th Semester the candidate has to opt for one of the elective subjects out of the three provided along with the core courses.

Fee Structure

KSOU Technical Courses Fee Structure for MCA

Fee → Semester ↓	Registration Fee	Examination fee in Rs.	Tuition fee In Rs.	Total Fees	KSOU share *	SVT Share **
Admission Semester	Rs. 500	Rs. 1,200/ per Sem	Rs.11,200/Sem	12,900.00/ per Sem	Rs.4,500/ per Sem	Rs.8,400/- per Sem
Subsequent Semester	Nil	Rs. 1,200/- per Sem	Rs.11,200/ per Sem	12,400.00/ per sem	Rs.4,000/ per Sem	Rs.8,400/- per Sem

* All KSOU fees to be paid in DD form in favor of Finance officer, KSOU payable at Mysore.

**All SVT fee to be paid in DD form in favor of Sharada Vikas Trust^(R) payable at Bangalore

Examination:

a) **Theory Subjects:**

Internal Assessment (Based on 2 assignments)	25 marks
Term-end University Examination	100marks
Total	125 marks

b) **Practical:**

Internal Assessment (Based on 2 tests) (For each practical)	25 marks
Term-end University Examination (One examination for all the practical in a semester)	100 marks
Total	125 marks

c) **Project:**

Internal Assessment	50 marks
University Examination	100 marks

Total	150 marks
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Pattern of Question paper

The pattern of question paper for the term end examination is as follows:

The question paper will consist of 3 parts.

Part A – 20 Marks; will have compulsory objective type questions/short answer questions, carrying 1/2 marks each (6x2 marks+1x8 marks).

Part B –40 Marks; candidate has to answer any 5 questions out of 8 questions, each carrying 8 marks.

Part C –40 marks; candidate has to answer any 4 questions out of 6 questions, each carrying 10 marks.

Minimum required for Pass

Theory/Practical/Project - 40 out of 100 marks in termend examination and 50 out of 125 marks including internal assessment marks.

Results:

Declaration of Classes

Distinction	More than 70 percent
I Class	More than or equal to 60% but less than 70% Marks
II Class	More than or equal to 50% but less than 60% Marks
Pass	More than or equal to 40% but less than 50% Marks

Integrated Master of Computer Applications (Integrated MCA)

Introduction:

Information technology has become an integral part of modern contemporary society. Life devoid of the knowledge of information technology appears to be gloomy. Information technology has been extended to all the new areas, making its way from making its way from mathematical computation and data processing via office automation to electronic sectors. I-T is becoming so prominent that it is changing every aspect of human life Trade, commerce, communication, manufacturing, service sector, entertainment, education and Global security. In fact, our national agenda for Governance has identified information Technology as one area where India can quickly establish Global dominance. Considering the enormous importance being laid to IT sector, KSOU and SVT have introduced BCA, MCA and IMCA and B.Tech courses for the benefit of students aspiring to be IT giants.

Opportunities:

The IT students have a bright employment potential in the field of Trade, commerce, communication, manufacturing, service sector, entertainment, education and Global security.

Admission Criteria:

General Entry:

- a) A candidate who has completed (10+2) or its equivalent can enroll for the first semester of Integrated MCA of 5 years.

Lateral Entry:

- a) A candidate who has a diploma in EE, EC, CS, IT or TC from a recognized Technical Board can enroll for the third semester of Integrated MCA.

General Exit:

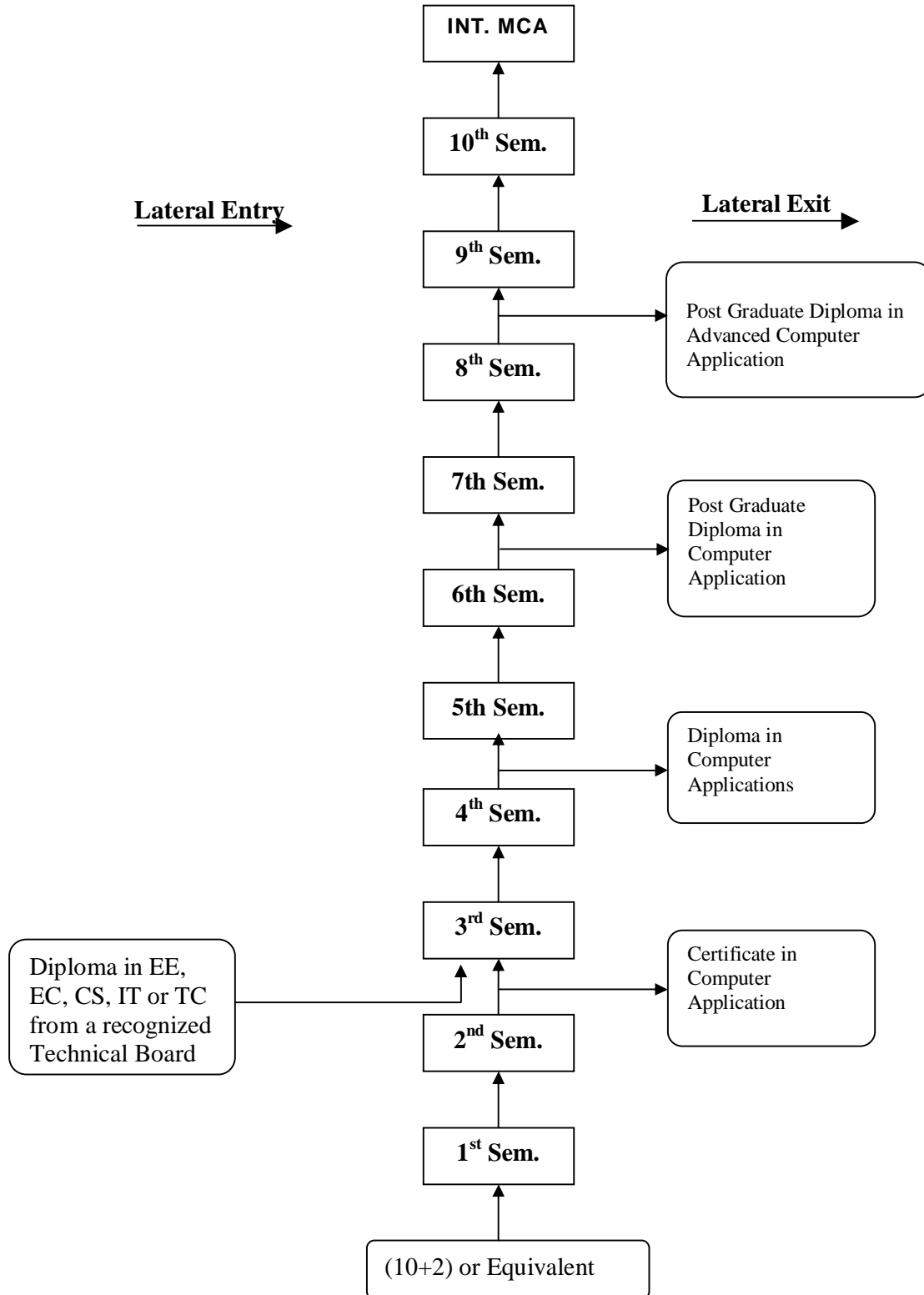
- b) After successful completion of all ten semesters the candidate will be eligible to obtain the degree of Integrated Master of Computer Applications (Int. MCA).

Lateral Exit:

- a) After successful completion of the first two semesters, the candidate will be eligible to obtain a **certificate in Computer Application**.
- b) After successful completion of the first four semesters, the candidate will be eligible to obtain a **Diploma in Computer Application**.
- c) After successful completion of the first six semesters the candidate will be eligible to obtain a **Post Graduate Diploma in Computer Application**.
- d) After successful completion of the first eight semesters the candidate will be eligible to obtain **Post Graduate Diploma in Advanced Computer Application**.

Schematic Representation

Integrated Master of Computer Applications



INTEGRATED MASTER OF COMPUTER APPLICATIONS

Programme Structure

1st Semester

Subject Code	Subject	Credits
IMCA 11	Computer Fundamentals and Windows Based Application	3
IMCA 12	Communication Skills in English	3
IMCA 13	Programming in C	3
IMCA 14	Data Structure	3
IMCA 15-L	C programming Lab	1
IMCA 16-L	Windows based Application lab	1
	Total Credits	14

2nd Semester

Subject Code	Subject	Credits
IMCA 21	Mathematics	3
IMCA 22	Computer Organization and Architecture	3
IMCA 23	DBMS	3
IMCA 24	OOPS with C++	3
IMCA 25-L	C++ Lab	1
IMCA 26-L	Data Structure Lab	1
	Total Credits	14

3rd Semester

Subject code	Subject	Credits
IMCA 31	Data Communication	3
IMCA 32	Operating Systems	3
IMCA 33	Computer Graphics	3
IMCA 34	Client Server Architecture	3
IMCA 35-L	Graphics Lab	1
IMCA 36-L	DBMS Lab	1
	Total Credits	14

4th Semester

Subject Code	Subject	Credits
IMCA 41	Software Engineering	3
IMCA 42	Java Programming	3
IMCA 43	RDBMS	3
IMCA 44	Unix and Shell Programming	3
IMCA 45-L	Java Lab	1
IMCA 46-L	Unix Lab	1
	Total Credits	14

5th Semester

Subject code	Subject	Credits
IMCA51	Algorithm and Analysis	3
IMCA52	Internet Programming	3
IMCA53	Application Programming	3
IMCA54	System Programming	3
IMCA54	Application Programming Lab	3
IMCA56-L	Multi Media Lab	1
	Total Credits	14

6th Semester

Subject Code	Subject	Credits
IMCA61	Discrete Mathematics	4
IMCA62	OOAD	4
IMCA63	.Net Programming	4
IMCA64	Artificial Intelligence	4
IMCA65-L	.Net Programming Lab	1
	RDBMS Lab	1
	Total Credits	18

7st Semester

Subject Code	Subject	Credits
IMCA71	MIS and ERP	4
IMCA72	Advanced Computer Graphics	4
IMCA73	System Simulation and Modelling	4
IMCA74	Advanced Unix and Shell Programming	4
IMCA75-L	System Simulation and Modelling Lab	1
IMCA76-L	Operating Systems Lab	
	Total Credits	18

8nd Semester

Subject Code	Subject	Credits
IMCA81	Advanced Software Engineering	4
IMCA82	Analysis and Design of Algorithm	4
IMCA83	Advanced Java Programming	4
IMCA84	System Programming	4
IMCA85-L	ADA Lab	1
IMCA86-L	Advanced Java Programming Lab	1
	Total Credits	18

9st Semester			10th Semester		
Subject Code	Subject	Credits	Subject Code	Subject	Credits
IMCA 91	Advanced Computer Network and Security	4	IMCA 101	Advanced MIS and E-Commerce	4
IMCA 92	Internet Programming and Web Designing	4	IMCA 102	Elective-2	4
IMCA 93	Data warehousing and Data Mining	4	IMCA 103	Elective-3	4
IMCA 94	Elective-1	4	IMCA 104	Project	8
IMCA 95-L	Systems Programming Lab	1			
IMCA 96-L	Web Designing/Internet Lab	1			
	Total Credits	18		Total Credits	18

List of Electives:

Elective-1

- i) Compiler Design
- ii) Mobile Computing and Communication
- iii) Simulation and Modeling

Elective-2

- i) Pattern Recognition
- ii) Operations Research
- iii) Advanced Computer Architecture

Elective-3

- i) Client Server Architecture
- ii) Artificial Intelligence
- iii) Network Management

Note: In 9th Semester and 10th semesters the candidate has to opt for one of the elective subjects out of the three provided along with the core courses.

Fee Structure

KSOU Technical Courses Fee Structure for Int.MCA

Fee → Semester ↓	Registration Fees	Examination fee in Rs.	Tuition fees	Total Fees	KSOU share *	SVT Share **
Admission Semester	Rs. 500	Rs. 1,200/- per Sem	Rs.10,200/ per Sem	Rs.11,900.00/ per Sem	Rs.4,250/-	Rs.7,650/ per sem
Subsequent Semester	Nil	Rs. 1,200/- per Sem	Rs.10,200/ per Sem	Rs.11,400/ per sem	Rs.3,750/-	Rs.7,650/ per sem

Note: A Candidate who changes the course from BCA to Integrated MCA must register again by paying the registration fee for Rs. 500.

* All KSOU fees to be paid in DD form in favor of Finance officer, KSOU payable at Mysore.

**All SVT fee to be paid in DD form in favor of Sharada Vikas Trust^(R) payable at Bangalore

Examination:

a) **Theory Subjects:**

Internal Assessment (Based on 2 assignments)	25 marks
Term-end University Examination	100marks
Total	125 marks

b) **Practical:**

Internal Assessment (Based on 2 tests) (For each practical)	25 marks
Term-end University Examination (One examination for all the practical in a semester)	100 marks
Total	125 marks

c) **Project:**

Internal Assessment	50 marks
University Examination	100 marks
Total	150 marks

Pattern of Question paper

The pattern of question paper for the term end examination is as follows:

The question paper will consist of 3 parts.

Part A – 20 Marks; will have compulsory objective type questions/short answer questions, carrying 1/2 marks each (6x2 marks+1x8 marks).

Part B –40 Marks; candidate has to answer any 5 questions out of 8 questions, each carrying 8 marks.

Part C –40 marks; candidate has to answer any 4 questions out of 6 questions, each carrying 10 marks.

Minimum required for Pass

Theory/Practical/Project - 40 out of 100 marks in termend examination and 50 out 125 marks including internal assessment marks.

Results:

Declaration of Classes

Distinction	More than 70 percent
I Class	More than or equal to 60% but less than 70% Marks
II Class	More than or equal to 50% but less than 60% Marks
Pass	More than or equal to 40% but less than 50% Marks

B.TECH COMPUTER SCIENCE

Introduction:

Computer science is at the intellectual forefront of the digital revolution that will define the 21st century. That revolution is in its infancy but is visible all around us. New scientific and being felt across all sectors of the economy and society at large. Computers and computer science are an increasingly important part of all academic disciplines, from English to engineering and everything in between.

The jobs of tomorrow will use technologies not yet invented. Such innovation requires dedication to learning, in the classroom, in the research laboratory, and throughout one's professional career.

Scientific discovery and technological innovation require mastery of the fundamentals of computing science as well as mastery of practical technical skills.

B.Tech in computer science offer a unique educational opportunity for students to achieve excellence in both through rigorous classes in distance learning mode and participation in cutting edge research.

Computer science changes the world. Computer Science touches and transforms every aspect of our lives. Traditional industries and sciences rely more and more upon computer science, driving the rapid innovations we see in medicine, technology, communications, physical sciences, commerce and human relationships. Join us and help shape the change!

B.Tech Program Educational Objectives:

It is the intent of the University that B.Tech in computer science graduates:

- Will have thorough knowledge in the key principles and practices of computing and will have applied their software development skills and knowledge of foundational principles to the design and implementation of practical systems consisting of software and/or hardware components to meet customer requirements.
- Will have an understanding of additional engineering principles and the mathematical and scientific concepts that underlie them, and will have applied this understanding, as appropriate, in analyzing real-world problems and designing suitable solutions.
- Will have an understanding of human and social issues, and will be in the process of becoming informed and involved members of their communities, and responsible engineering and computing professionals.
- Will have appropriate interaction and organizational skills, and will be routinely using and further developing these skills in their professional careers.
- Will be successfully employed in the computing profession, and will be actively engaged in learning, understanding, and applying new ideas and technologies as the field evolves; or will have successfully completed, or be actively pursuing, graduate studies in computing.

Opportunity:

The demand for people who are skilled in the computing field remains strong. The reason is that computing is now essential in all areas of society. Contrary to popular misconception, off shoring of lower-level IT jobs is a secondary factor in job growth for the computing profession.

Computer hardware and software vendors hire B.Tech graduates in areas such as hardware and software product development, quality assurance, customer support, sales and marketing, documentation and training. But even more often, organizations that use these products (such as hospitals, banks, insurance companies and manufacturing firms) hire B.Tech graduates as software engineers building system foundations as well as end-user applications, systems analysts, database administrators, and network administrators, as well as for other types of positions.

ADMISSION CRITERIA/ELIGIBILITY:

General Entry:

PUC 2 years course or 10+2 (CBSE/ICSE) conducted by any state with subjects such as Physics, Chemistry and Mathematics with English as one of the languages of study or any other equivalent as per university guidelines of various Government recognized universities.

Lateral entry:

- a) Candidates of 3 year Diploma program of any technical Board of any state is eligible for admission to the second year (**3rd semester of the course**). The candidates who have passed a qualifying examination other than PUC or 3 years diploma must produce an equivalent/eligibility certificate to obtain admission to the course.
- b) Candidates possessing B.Sc Degree with Computer Science, Electronics, Telecommunication or BCA from any Government Recognized University is eligible for admission to the third semester.

General exit:

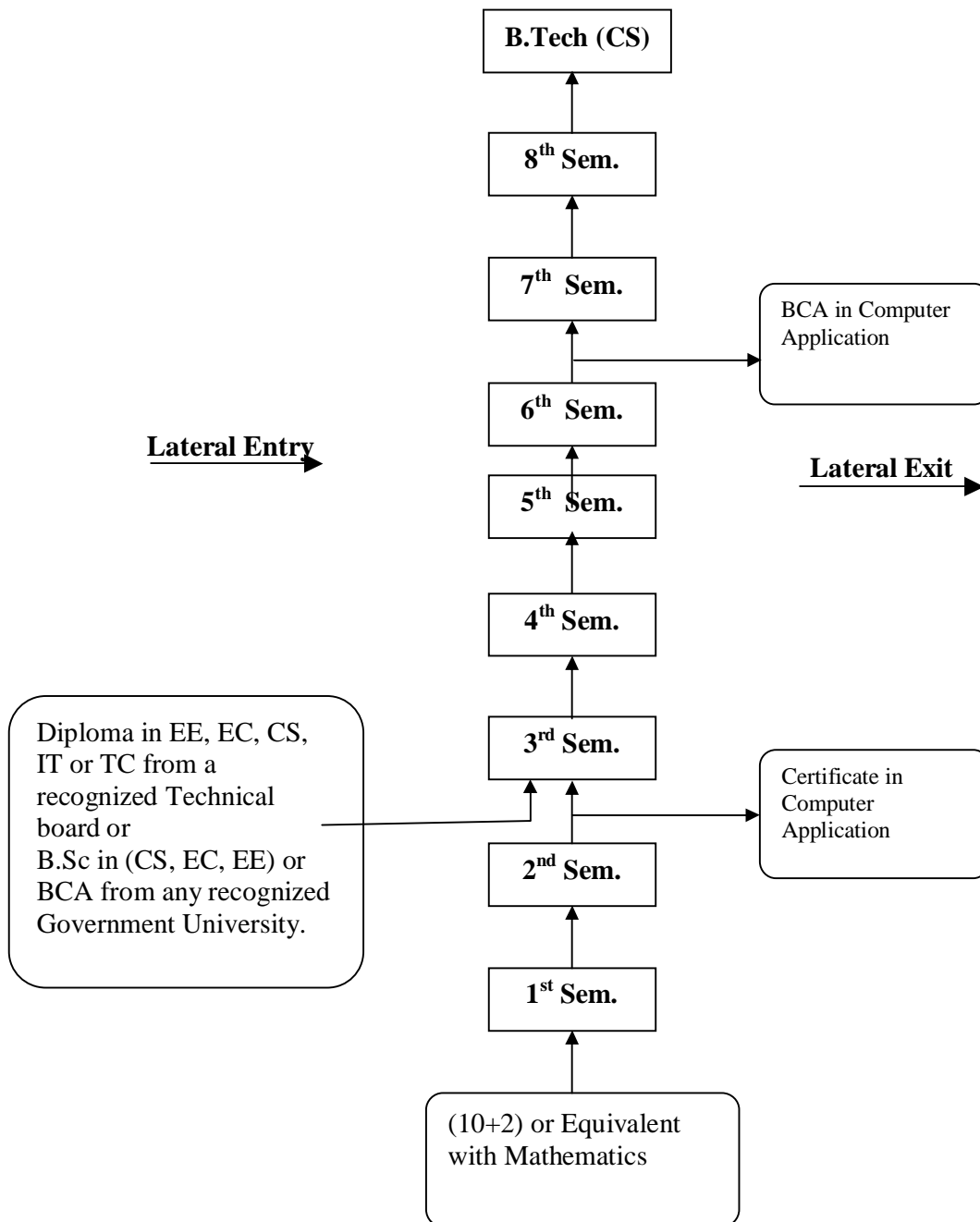
After successful completion of all the eight semesters the candidate will be eligible to obtain the degree of Bachelor of technology in Computer Science [B.Tech(CS)].

Lateral exit:

- a) After successful completion of the first two semesters, the candidate will be eligible to obtain a **certificate in Computer Application**.
- b) After successful completion of the first six semesters, the candidate will be eligible to obtain a **degree in Bachelor of Computer Science**.

Schematic Representation

B.Tech (Computer Science)



Programme Structure

1st Semester:

Subject code	Subject	Credits
BTC 21	Engineering Maths-1	3
BTC 22	Engineering Physics	3
BTC 23	Computer Fundamentals	3
BTC 24	Computer programming with "C"	3
BTC 25	Office Automation Lab	1
BTC 26	Computer programming with "C" Lab	1
Total credits:		14

2nd Semester

Subject code	Subject	Credits
BTC 21	Engineering Maths-2 (Introduction to Statistics and Numerical Methods)	3
BTC 22	Data Structures using C	3
BTC 23	Computer Organization and Architecture	3
BTC 24	Database Management System	3
BTC 25	DBMS Lab	1
BTC 26	Data Structures Lab	1
Total credits:		14

3rd Semester:

Subject code	Subject	Credits
BTC 31	Maths-3 (Discrete Maths)	3
BTC 32	OOPS using C++	3
BTC 33	System Analysis and Design	3
BTC 34	Communication skills	3
BTC 35	Numerical Methods Lab	1
BTC 36	OOPS and C++ Lab	1
Total credits:		14

4th Semester:

Subject code	Subject	Credits
BTC 41	Operating systems	3
BTC 42	Data communications (Computer Networks)	3
BTC 43	Computer Graphics	3
BTC 44	Java Programming	3
BTC 45	Graphics Lab	1
BTC 46	Java Lab	1
Total Credits:		14

5th Semester:

Subject code	Subject	Credit
BTC 51	Object Oriented Analysis and Design	3
BTC 52	Unix and Shell programming	3
BTC 53	Software Engineering	3
BTC 54	Algorithms and Analysis	3
BTC 55	RDBMS	3
BTC 56	Algorithm Lab	1
Total Credits:		16

6th Semester:

Subject code	Subject	Credit
BTC 61	System Simulation and Modeling	3
BTC 62	Linux and Linux Internals	3
BTC 63	Operation Research	3
BTC 64	Pattern Recognition	3
BTC 65	Software Project Management and Quality Testing	3
BTC 66	Linux Internals Lab	1
Total Credits:		16

7th Semester:

Subject code	Subject	Credit
BTC 71	Mobile Computing	3
BTC 72	Internet programming and Web Designing	3
BTC 73	Application Programming	3
BTC 74	Web Designing Lab	1
BTC 75	Mini Project	6
Total Credits:		16

8th Semester:

Serial No.	Subject code	Subject	Credit
1	BTC 81	CRM and SCM	3
2	BTC 82	Network security	3
3	BTC 83	Elective	3
4	BTC 84	Project	7
			16

Note: The Elective to be chosen out of the following Subjects

Elective

- i) Data warehousing and Data mining
- ii) MIS systems
- iii) E-commerce

Note:

Projects can be done in any chosen field with relevant organizations/companies/industries.

Fee Structure

Fee structure for B.Tech in CS

Fee → Semester ↓	Reg. Fee In Rs.	Examination Fee in Rs.	Tuition fee in Rs.	Total Fees	KSOU Share *	SVT Share **
Admission Semester	300	Rs.1,200/ per Sem	Rs.11,200/ per sem	Rs.12,700/ per sem	Rs.4,000/ per Sem	Rs.8,700/ per Sem
Subsequent semester	Nil	Rs.1,200/ per Sem	Rs.11,200/ per sem	Rs.12,400/ per sem	Rs.4,000/ per Sem	Rs.8,400/ per Sem

Payment details

*All KSOU fees to be paid in DD form in favor of Finance officer, KSOU payable at Mysore

**All SVT fee to be paid in DD form in favor of Sharada Vikas Trust^(R) payable at Bangalore

Examination:

a) Theory Subjects:

Internal Assessment (Based on 2 assignments)	20 marks
Term-end University Examination	80 marks
Total	100 marks

b) Practical:

Internal Assessment (Based on 2 tests) (For each practical)	20 marks
Term-end University Examination (One examination for each practical in a semester)	80 marks

Total	100 marks
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c) **Project:**

For Mini project in 7th semester:

Internal Assessment	50 marks
University Examination	150 marks

Total	200 marks
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For project in Final semester semester:

Internal Assessment	100 marks
University Examination	200 marks

Total	300 marks
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3. SCHEME OF EXAMINATION

Pattern of Question paper

The pattern of question paper for the term end examination is as follows:
The question paper will consist of 3 parts.

Part A – 20 Marks; will have compulsory objective type questions/short answer questions, carrying 1/2 marks each (6x2 marks+1x8 marks).

Part B –30 Marks; candidate has to answer any 6 questions out of 8 questions, each carrying 5 marks.

Part C –30 marks; candidate has to answer any 3 questions out of 5 questions, each carrying 10 marks.

Minimum required for Pass

Theory/Practical/Project - 32 out of 80 marks in termend examination and 40 out of 100 marks including internal assessment marks.

Results:

Declaration of Classes

Distinction	More than 70 percent
I Class	More than or equal to 60% but less than 70% Marks
II Class	More than or equal to 50% but less than 60% Marks
Pass	More than or equal to 40% but less than 50% Marks

Practical Examinations:

There will be one practical examination by the University for each lab subject. This examination will include questions on all practicals of that semester and candidate has to do a question, which comes to him by lot. The question may be from one or more subjects of practical conducted during the semester. The question paper will be got prepared by the University and sent to the Examination Centers. The University will also depute External Examiners to the Examination Centers for conducting the practical examination. Depending on the strength of the candidates, study centers may be clubbed for Practical Examinations and will be held at selected study centers / Examination Centers.

Project Work

University appointed examiners do evaluation. It will be based on any or all of the following aspects:

- a) Demonstration & presentation of Project Work by the candidate.
- b) Viva-Voce
- c) Evaluation of content of the Project Work
- d) Review of Project Reports submitted to Study Center of KSOU.

Management Programmes:

Introduction:

The program is for professionals seeking to improve their skills in managing people and organizational systems. It is designed to build skills in leadership, team building and motivation of the workforce. The program builds knowledge of how business strategy affects organizational interaction with the marketplace and how to structure the workplace to enhance organizational growth and productivity.

The MBA concentration in information systems develops management skills for the effective use of information in the enterprise within the global environment. The practice of information systems management is built on technical and managerial skills drawn from the fields of business management, information technology, finance, economics and quantitative methods.

The structure of the programme is designed such that to offer to the candidates the opportunity to acquire knowledge, skills and understanding in order to face the challenges of the dynamic and complex environment of Information Systems.

Modern organizations must capture, analyze, combine, communicate and use it at speed and volume. This brings as many problems as solutions. Therefore, organizations need to provide leadership to make and implement information policies. To do this, they need a thorough and associated technology. It looks at technological concepts from the perspective of those managing technical staff, and focuses on information management, information systems and knowledge workers.

The informational aspects of individual and organizations are emphasized

- Behavior and politics
- Strategy
- Culture
- Management Processes
- Human Resources
- Business
- Computing
- Information Systems

It is for people who recognize the strategic implications of information and knowledge management, and for managers who understand that the information is important rather than the technologies that deliver it. This Course creates a balanced group with students from a range of different working environments and cultures.

Here student is directed to self-directed and virtual learning supported by various study centers across the region. For each module students will attend weekend classes. Pre-workshop reading and a dedicated faculties support each module/subjects.

Opportunity

This course is designed as an advance level study into project management and project planning. In this course students will consider and critically evaluate the problems associated with managing project teams and communicating with all parties involved. Students will become involved in presentations, discussions, and extensive case studies and so address the key aspects of project management. This course will examine closely the effects of project management upon business needs, and how project management can establish a firm foundation for different IS projects. Students will be introduced to different techniques of planning and monitoring projects in order to maximize the success of the project. Students will be introduced to a practical, process to manage projects.

Many students with an engineering or technical background are drawn to IT related MBAs. The predominant career pattern in information systems starts with a position as a systems analyst or consultant. The next step is that of project manager, where the individual will be responsible for everything from implementation to system design and research. The ultimate aspiration in the IT field would then be the position of CIO or chief information officer of a corporation.

The career path of an MBA in the Information systems industry may fall in corporations or in consulting firms. However, the greatest numbers of people go through a combination of the two. A strong focus in IT functionality tends to lead MBA holders to large scale project implementation and management positions that sometimes span over many years. Many IT focused MBAs will hop from one company to another as projects are started and finished.

Admission Criteria:

General Entry:

Any Graduation in any of the disciplines of a recognized University
OR Any Graduation or any other degree equivalent with **10+2+3 pattern** and 3 years of Diploma from a State Board without any experience

Lateral Entry:

Any Graduation and 1-year PG diploma computer course from any recognized university/
AICTE board.

OR

Any Graduation in any of the disciplines of a recognized University/ 3 years Diploma from a state Board and two years related IT experience in a reputed organization.

OR

Any Graduation in any of the disciplines of a recognized University/ 3 years Diploma from a state Board and 1 year Managerial experience in a reputed organization

OR

Any Graduation with PGDBA from AICTE recognized or Government recognized University.

General Exit:

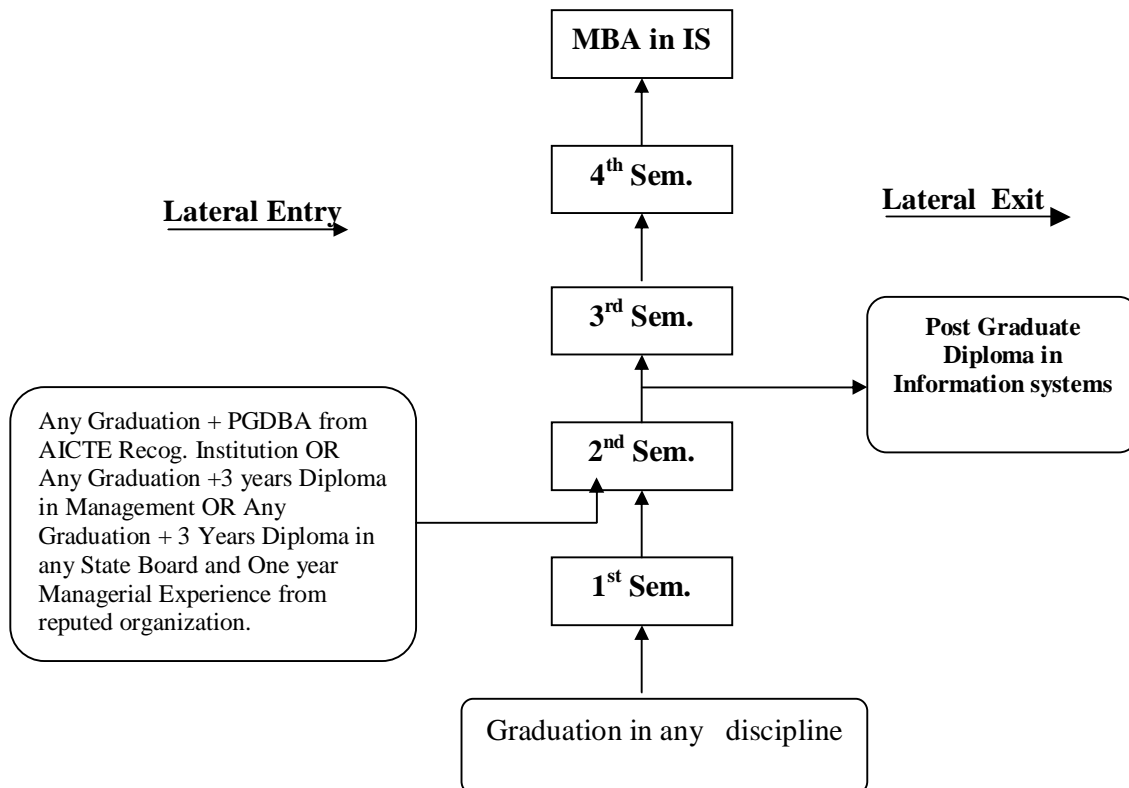
After successful completion of all the four semesters the candidate will be eligible to obtain the degree of Master in Business Administration in Information Systems [MBA(IS)].

Lateral exit:

After successful completion of the first Two semesters the candidate will be eligible to obtain a **Post Graduate Diploma in Information systems.**

MBAIS (Information systems)

Schematic Representation



MBA-Information systems

Program Structure

First Semester:

Subject code	Subject	Credit
MBIS-1	Management Process and Organization Behavior	4
MBIS-2	Information Systems Strategy.	4
MBIS-3	Marketing Management	4
MBIS-4	Financial and Management Accounting	4
MBIS-5	Business Application of IT	4
MBIS-6	Internet Technologies	4
Total Credits:		24

Second Semester:

Subject code	Subject	Credit
MBIS-7	HRM (Human Resource Management)	4
MBIS-8	Operations research and Management	4
MBIS-9	Application Programming (Visual Basic etc.)	4
MBIS-10	Managerial Economics	4
MBIS-11	Computer Networks and Security	4
MBIS-12	Database Systems and database management (SQL, Oracle).	4
Total Credits:		24

Third Semester:

Serial No.	Subject code	Subject	Credit
1	MBIS-13	Management Information System (MIS)	4
2	MBIS-14	Electronic Commerce and Cyber Laws	4
3	MBIS-15	Conflict Management and Negotiation Skills/Business Process engineering	4
4	MBIS-16	Data Warehousing and Data mining	4
5	MBIS-17	Elective-1	4
6	MBIS-18	Elective-2	4
Total Credits:			24

In addition to the core courses, students must select two elective courses from those listed below. The two elective courses may be taken from one or more of the other concentration areas or from other approved courses in information systems, in consultation with the program advisor and based upon the student's area of interest, career goals, and existing departmental and university areas of expertise.

Fourth Semester:

Subject code	Subject	Credit
MBIS-19	E-CRM and SCM	4
MBIS-20	International Business and Business Intelligence	4
MBIS-21	Data communications	4
MBIS-22	Elective-3	4
MBIS-16	Project	8
Total Credits:		24

In addition to the core courses, students must select **one elective** course from those listed below. The two elective courses may be taken from one or more of the other concentration areas or from other

approved courses in information systems, in consultation with the program advisor and based upon the student's area of interest, career goals, and existing departmental and university areas of expertise.

List of Electives:

Note: The elective to be chosen out of the following subjects:

1. **Managing and Designing Database Systems**
2. **E-Business Intelligence**
3. **Electronic commerce**
4. **Emerging new technologies and opportunities**
5. **Introduction to HTML, Website design and Management**
6. **Knowledge Management.**

Fee structure

Fee structure for MBA in IS

Fee → Semester ↓	Reg. Fee In Rs.	Examination Fee in Rs.	Tuition fee in Rs.	Total Fees	KSOU Share *	SVT Share **
Admission Semester	300	Rs.1,200/ per Sem	Rs.11,20 0/ per sem	Rs.12,700/ per sem	Rs.4,000/ per Sem	Rs.8,700/ per Sem
Subsequent semester	Nil	Rs.1,200/ per Sem	Rs.11,20 0/ per sem	Rs.12,400/ per sem	Rs.4,000/ per Sem	Rs.8,400/ per Sem

* All KSOU fees to be paid in DD form in favor of Finance officer, KSOU payable at Mysore.

** All SVT fee to be paid in DD form in favor of Sharada Vikas Trust^(R) payable at Bangalore

Scheme for Tests and Examination

a) Theory Subjects:

Internal Assessment (Based on 2 assignments)	25 marks
Term-end University Examination	100marks
Total	125 marks

b) Practical:

Internal Assessment (Based on 2 tests) (For each practical)	25 marks
Term-end University Examination (One examination for all the practical in a semester)	100 marks
Total	125 marks

c) Project:

Internal Assessment	50 marks
University Examination	200 marks
Total	250 marks

Pattern of Question paper

The pattern of question paper for the term end examination is as follows:

The question paper will consist of 3 parts.

Part A – 20 Marks; will have compulsory objective type questions/short answer questions, carrying 1/2 marks each (6x2 marks+1x8 marks).

Part B –40 Marks; candidate has to answer any 5 questions out of 8 questions, each carrying 8 marks.

Part C –40 marks; candidate has to answer any 4 questions out of 6 questions, each carrying 10 marks.

Minimum required for Pass

Theory/Practical/Project - 40 out of 100 marks in termend examination and 50 out of 125 marks including internal assessment marks.

Results:

Declaration of Classes

Distinction	More than 70 percent
I Class	More than or equal to 60% but less than 70% Marks
II Class	More than or equal to 50% but less than 60% Marks
Pass	More than or equal to 40% but less than 50% Marks

B.Sc in Hospitality and Catering Management

Introduction:

The hospitality industry is a major worldwide industry. It is dynamic, competitive, fast growing and international in nature. It is wide-ranging, covering everything from deluxe hotels, restaurants and designer bars to catering operations and nightclubs. B.Sc and M.Sc in Hospitality Management are designed to provide participants with the expert knowledge and skills necessary for a successful career a senior management level in any sector of this vibrant industry.

The hospitality industry currently employs one in ten people worldwide and is one of the fastest growing business sectors. Such a large and international industry provides many varied career opportunities.

Hospitality industry, today has acquired a dimension that was unthinkable before. Skilled hospitality manpower is very much in demand and this demand is growing by day.

According to an article published in The Economic Times, dated 2nd April 2008, and estimated investment of \$ 11.41 billion is expected to be seen in the hospitality sector in the next tow years and India is likely to have at least 40 International brands by 2011. The hospitality sector has beat IT to the “largest Employer” and more than 4.5 lakhs jobs will be created in this sector to cater to such demand.

If you are people orientated with an eye for detail and enjoy the rewards of providing customers with great experiences then the hospitality industry could offer you the career path you are looking for. The skills you build are truly international and careers are open to you worldwide.

The programme covers all aspects of the hospitality industry with a business and based curriculum that is designed to equip participants with the management skills and analytic capabilities necessary to obtain careers in a wide range of organizational settings.

Opportunity:

Hospitality represents a vibrant industry which offers expert knowledge and skills which are integral for a successful career in the senior management level. Hospitality has acquired a new and additional dimension which was unthinkable before. There is a significant demand for hospitality jobs in the contemporary society one can expect jobs in a wide ranging area covering deluxe hotels, restaurants, etc.

Admissions Criteria

General Entry:

10+2 or equivalent in any discipline

OR

3 years Diploma from any state board or equivalent certificate from any recognized university.

Lateral Entry:

Lateral entry to 3rd semester:

10+2 or equivalent and one year Diploma/certificate programme in Hotel Management from an institution affiliated to a Technical Board or university.

OR

3 years Diploma from any state board or equivalent certificate from any recognized university with one year experience in Hotel/resort management.

General Exit:

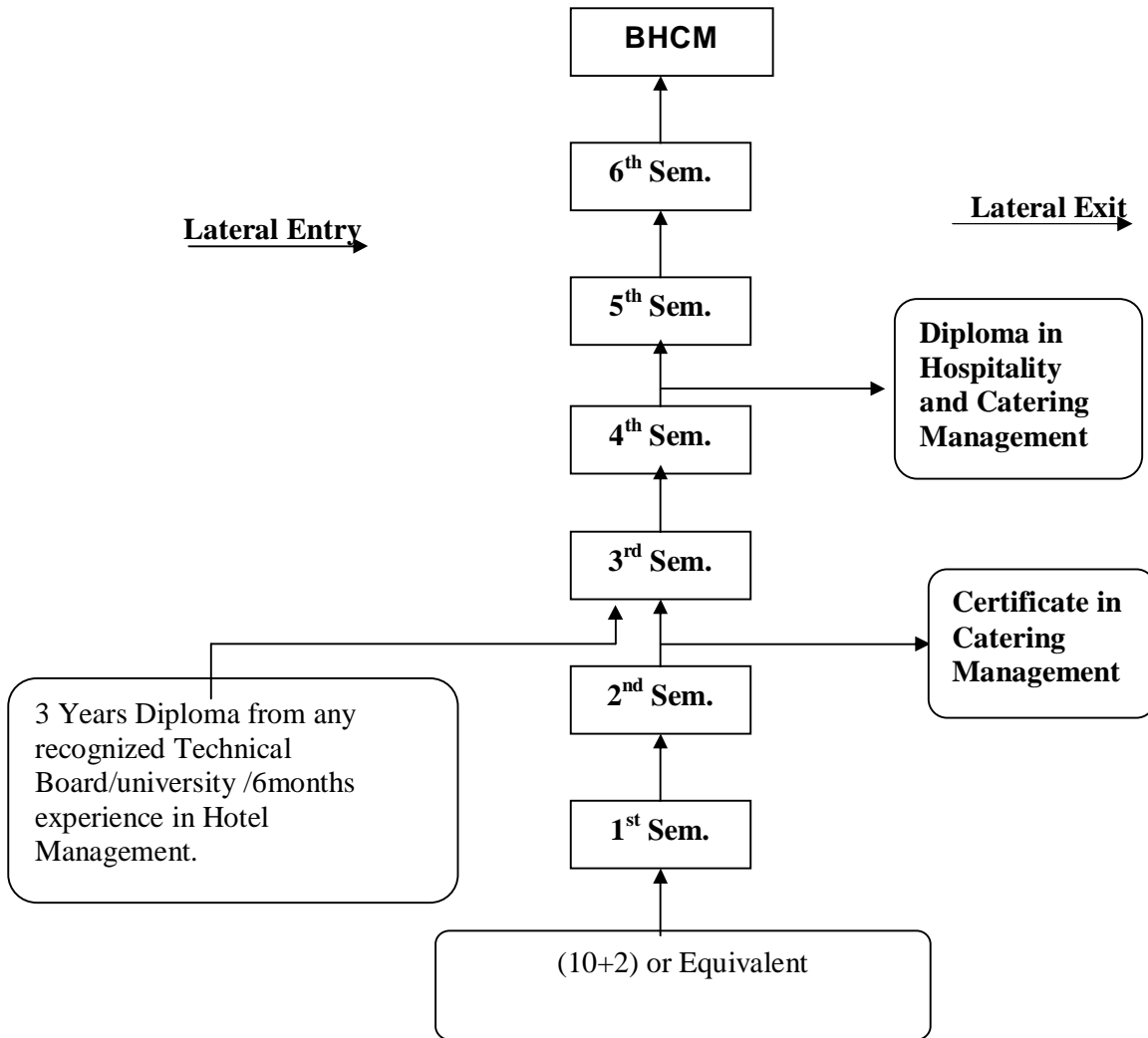
After successful completion of all the six semesters the candidate will be eligible to obtain the degree of B.Sc Bachelor of Science in Hospitality and catering management.

Lateral Exit:

- a) After successful completion of the first two semesters, the candidate will be eligible to obtain a certificate in **Hospitality and catering Management**.
- b) After successful completion of the first four semesters, the candidate will be eligible to obtain a **Diploma in Hospitality and catering management**.

Schematic Representation

Bachelor of Science in Hospitality and Catering Management



B.Sc in Hospitality and Catering Management

Programme Structure:

I Semester

Subject code	Subject	Credit
BHCM-1	Introduction to Hospitality Management	3
BHCM-2	Front office Operations	3
BHCM-3	Communicative English	3
BHCM-4	Accommodation Operations	3
BHCM-5	Accommodation Operations Lab	2
BHCM-6	Front office operations Lab-I	2
Total Credits:		16

II Semester

Subject code	Subject	Credit
BHCM-7	Environmental Studies	3
BHCM-8	Hospitality information systems	3
BHCM-9	HR Management	3
BHCM-10	Entrepreneurship development programme	3
BHCM-11	Hospitality information systems lab	2
BHCM-12	Front Office Operation Lab-II	2
Total credits:		16

III Semester

Subject code	Subject	Credit
BHCM-13	Computer Applications	3
BHCM-14	Accounting with Tally	3
BHCM-15	Introduction to Internet worldwide web	3
BHCM-16	Food Production Theory	3
BHCM-17	Accommodation operations Lab	2
BHCM-18	Tally Lab	2
Total credits:		16

IV Semester

Subject code	Subject	Credit
BHCM-19	Food Production and Bakery maintenance	3
BHCM-20	Food and Beverage Services	3
BHCM-21	Food and Nutrition	3
BHCM-22	Hospitality and Hotel law	3
BHCM-23	Food Production and Bakery Maintenance Lab-I	2
BHCM-24	Food and Beverage services Lab-I	2
Total Credits:		16

V Semester

Subject code	Subject	Credit
BHCM-25	Principles of Management	3
BHCM-26	Sales and Marketing Management	3
BHCM-27	Cultural heritage of India	3
BHCM-28	Tourism and Travel Management	3
BHCM-29	Food production and Bakery maintenance Lab-II	2
BHCM30	Food and Beverage services Lab-II	2
Total credits		16

VI Semester

Subject code	Subject	Credit
BHCM-31	Hospitality in Catering	3
BHCM-31	House Keeping	3
BHCM-33	Project (On the job training for 240 Hours)	10
Total Credits:		16

Fee Structure

Fee structure for B.Sc in HCM

Fee → Semester ↓	Reg. Fee In Rs.	Examination Fee in Rs.	Tuition fee in Rs.	Total Fees	KSOU Share *	SVT Share **
Admission Semester	300	Rs.1,000/ per Sem	Rs.8,200 / per sem	Rs.9,500/ per sem	Rs.3,050/ per Sem	Rs.6,450/ per Sem
Subsequent semester	Nil	Rs.1,000/ per Sem	Rs.8,200 / per sem	Rs.9,200/ per sem	Rs.3,050/ per Sem	Rs.6,150/ per Sem

Payment Details:

*All KSOU fees to be paid in DD form in favor of Finance officer, KSOU payable at Mysore.

**All SVT fee to be paid in DD form in favor of Sharada Vikas Trust^(R) payable at Bangalore.

3. SCHEME OF EXAMINATION

a) Theory Subjects:

Internal Assessment (Based on 2 assignments)	20 marks
Term-end University Examination	80 marks
Total	100 marks

b) Practical:

Internal Assessment (Based on 2 tests) (For each practical)	20 marks
Term-end University Examination (One examination for each practical in a semester)	80 marks
Total	100 marks

c) Project:

Internal Assessment	100 marks
University Examination	300 marks
Total	400 marks

Pattern of Question paper

The pattern of question paper for the term end examination is as follows:
The question paper will consist of 3 parts.

Part A – 20 Marks; will have compulsory objective type questions/short answer questions, carrying 1/2 marks each (6x2 marks+1x8 marks).

Part B –30 Marks; candidate has to answer any 6 questions out of 8 questions, each carrying 5 marks.

Part C –30 marks; candidate has to answer any 3 questions out of 5 questions, each carrying 10 marks.

Minimum required for Pass

Theory/Practical/Project - 32 out of 80 marks in termend examination and 40 out of 100 marks including internal assessment marks.

Results:

Declaration of Classes

Distinction	More than 70 percent
I Class	More than or equal to 60% but less than 70% Marks
II Class	More than or equal to 50% but less than 60% Marks
Pass	More than or equal to 40% but less than 50% Marks

M.Sc in Tourism and Hospitality Management

Introduction:

The hospitality industry is a major worldwide industry. It is dynamic, competitive, fast growing and international in nature. It is wide-ranging, covering everything from deluxe hotels, restaurants and designer bars to catering operations and nightclubs. B.Sc and M.Sc in Hospitality Management are designed to provide participants with the expert knowledge and skills necessary for a successful career a senior management level in any sector of this vibrant industry.

The hospitality industry currently employs one in ten people worldwide and is one of the fastest growing business sectors. Such a large and international industry provides many varied career opportunities.

Hospitality industry, today has acquired a dimension that was unthinkable before. Skilled hospitality manpower is very much in demand and this demand is growing by day.

According to an article published in The Economic Times, dated 2nd April 2008, and estimated investment of \$ 11.41 billion is expected to be seen in the hospitality sector in the next tow years and India is likely to have at least 40 International brands by 2011. Te hospitality sector has beat IT to the “largest Employer” and more than 4.5 lakhs jobs will be created in this sector to cater to such demand.

If you are people orientated with an eye for detail and enjoy the rewards of providing customers with great experiences then the hospitality industry could offer you the career path you are looking for. The skills you build are truly international and careers are open to you worldwide.

The programme covers all aspects of the hospitality industry with a business and based curriculum that is designed to equip participants with the management skills and analytic capabilities necessary to obtain careers in a wide range of organizational settings.

Opportunity:

Travel and tourism represents a broad range of related industries. The growth of these industries has opened up many new job opportunities for graduates in areas such as:

- hotels
- restaurants
- retailing
- transportation
- travel agencies
- tour companies
- tourist attractions
- leisure, recreation and sport
- cultural industries

It is interesting to realise that in 1997 travel and tourism provides 10.5% of the total world employment, with up to 25% of all employment, in some areas, such as the Caribbean. It has been estimated that, by 2007, more than 100 million people world-wide will be employed in this sector. Because of this, tourism is now seen to be of importance to most countries of the world.

During this time, the nature of tourism has developed in scope and direction, away from traditional activities, such as the sunshine sand and sea holidays to a wide range of new activities such as cultural tourism, adventure tourism, sports and leisure activities and eco-tourism.

Given the potential for interesting and rewarding careers in these industries many young people are looking for suitable courses which will help prepare them for careers in management within the tourism and hospitality industries. The UK higher education system has a well developed range of courses, at all levels from Higher National Diploma, BA or BSc degrees and MA/MSc/MBA Masters courses and using alternative methods of studying, (including full-time, part-time and distance learning). When looking at courses in hospitality and tourism, there can seem to be a bewildering variety of course titles covering the main employment areas of travel, tourism, hotels and restaurants. Typical titles include:

For hotels and restaurant management:

- hospitality management
- international hospitality management
- hotel and catering management

For travel and tourism:

- tourism management
- tourism studies
- travel and tourism

There are also joint degrees where it is possible to study combinations of subjects, such as tourism and hospitality, tourism and leisure, hospitality and marketing. Most undergraduate courses (HND/BSc/BA) will include a period of work experience as part of the course, varying in length from 6 months to one year. This work experience is seen to be a central part of the course, where the student gets the opportunity to practise what they have learned in college or university. Employers also see great value in this work experience when considering the employment of graduates.

Given the international nature of these industries, another valuable part of any course is the study of languages. Most courses in hospitality and tourism provide access to language courses, either as core components or as options.

Courses at Masters level are becoming increasingly important in tourism and hospitality. These Masters level courses are useful to two groups of people:

- those who have completed a degree course in a subject other than hospitality or tourism but who are looking at ways of getting employment in the industry;

- those who have a degree or sub-degree qualification in hospitality or tourism together with significant management experience within the hospitality or tourism industries and who wish to develop themselves to a higher level or to seek a more senior position in industry. There are many Masters courses in Hospitality Management, Hotel and Catering Management and Tourism Management in universities and colleges in the UK.

In addition to the above courses, there are also more specialised Masters courses in Tourism covering areas such as Cultural Tourism, Tourism Marketing, Tourism Planning, Museum Management, Heritage Management, Cultural Tourism and Sustainable Tourism: these are suitable for people who have an interest in employment in a specific sector of the industry.

Within the UK there are many university and college courses to choose from, but each course will have its own unique characteristics. Before applying, you should think carefully about the type of career you want: if it is in a hotel are you interested in restaurant management or rooms division management? Do you see yourself as a practical hands-on person or someone who is happier to work behind the scenes in a desk based job? Do you aspire to become a general manager of a hotel which is part of one of the major world-wide groups, or do you want to manage your own operation? Are you more interested in one of the functional management areas, such as marketing, human resources, conferences. If you are interested in tourism do you want to work for a travel agency, a tour company, the management of a tourist attraction, or within the public sector-national, regional or local tourism planning organisations. Think about these types of question before consulting the prospectuses or WEB sites so that you can judge each course against your own preferences.

Admission Criteria:

General Entry:

Any Graduation in any of the disciplines of a recognized University/board.

Lateral Entry:

Second semester

Any Graduation and 1-year certificate or Diploma course in Hospitality from any recognized Institution/ Board.

OR

Graduation in any of the disciplines of a recognized University, any Diploma of 3 years duration from a State Board and two years of Hospitality related experience in an organization.

OR

Graduation in any of the disciplines of a recognized University, any Diploma of 3 years duration from a State Board and one year Managerial experience in a reputed organization.

General exit:

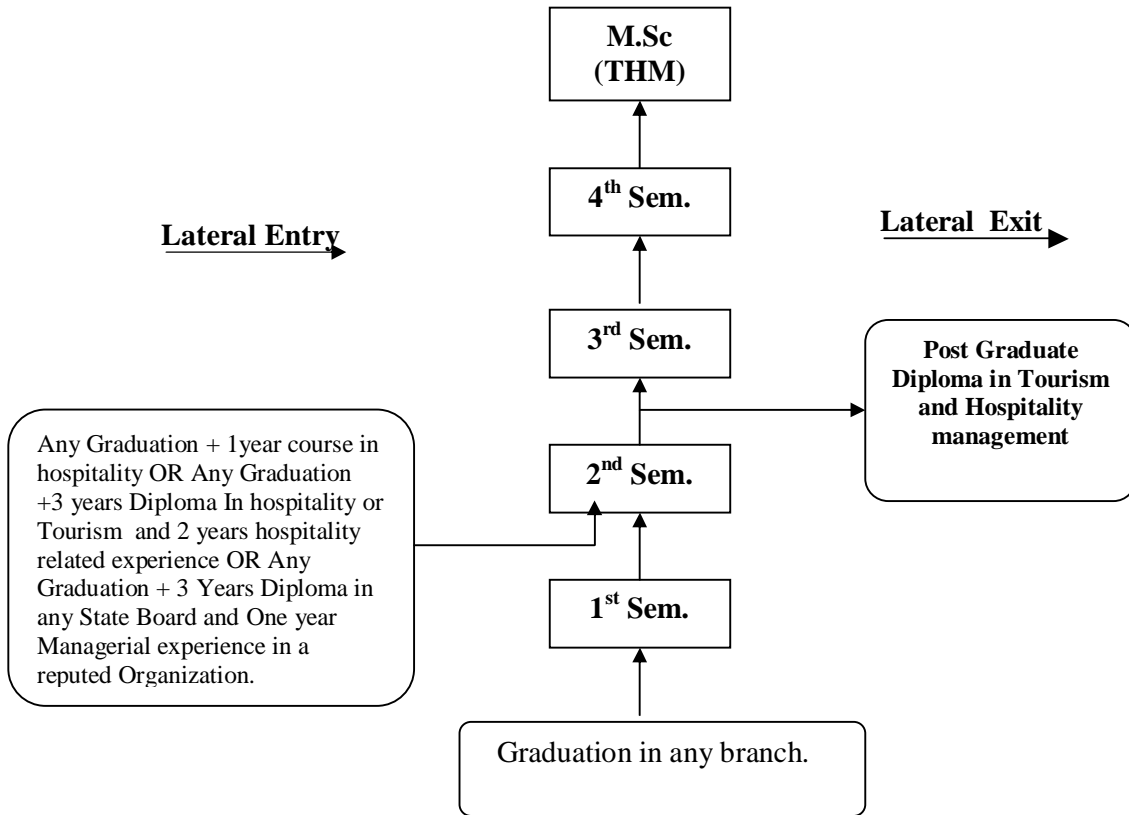
After successful completion of all the six semesters the candidate will be eligible to obtain the degree **M.Sc (THM) (Master of Science in Tourism and Hospitality Management)**

Lateral exit:

After successful completion of the first Two semesters the candidate will be eligible to obtain a **Post Graduate Diploma in Tourism and Hospitality Management.**

Schematic Representation

M.Sc (THM) (Master of science in Tourism and Hospitality Management)



Programme Structure

I Semester

Subject code	Subject	Credit
MTHM-1	Tourism Product and Services	4
MTHM-2	Computer Applications	4
MHTM-3	Basic Food and Beverages Services	4
MTHM-4	Food Science and Nutrition	4
MTHM-5	Front Office Operations	4
Total credits:		20

II Semester

Subject code	Subject	Credit
MTHM-6	Financial Accounting and Costing	4
MTHCM-7	Global Trends in tourism and Tourism Concepts	4
MTHM-8	Communication Skills in Tourism	4
MTHM-9	House Keeping and Accommodation	4
MTHM-10	Managerial Economics	4
Total Credits:		20

III Semester

Subject code	Subject	Credit
MTHM-11	Strategic Marketing Management	4
MTHM-12	Tourism Management	4
MTHM-13	HR Management	4
MTHM-14	Management Information System	4
MTHM-15	International Hotel Laws	4
Total credits:		20

IV Semester

Subject code	Subject	Credit
MTHM-16	Conference and Event Management	4
MTHM-17	Entrepreneurship Development Program	4
MTHM-18	Project	12
Total credits:		20

Fee structure

Fee structure for M.SC in HTM

Fee → Semester ↓	Reg. Fee In Rs.	Examination Fee in Rs.	Tuition fee in Rs.	Total Fees	KSOU Share *	SVT Share **
Admission Semester	300	Rs.1,200/ per Sem	Rs.10,200/ per sem	Rs.11,700/ per sem	Rs.3,750/ per Sem	Rs.7,950/ per Sem
Subsequent semester	Nil	Rs.1,200/ per Sem	Rs.10,200/ per sem	Rs.11,400/ per sem	Rs. 3,750/ per Sem	Rs.7,650/ per Sem

* All KSOU fees to be paid in DD form in favor of Finance officer, KSOU payable at Mysore.

** All SVT fee to be paid in DD form in favor of Sharada Vikas Trust^(R) payable at Bangalore.

Scheme for Tests and Examination:

a) **Theory Subjects:**

Internal Assessment (Based on 2 assignments)	25 marks
Term-end University Examination	100marks
Total	125 marks

b) **Practical:**

Internal Assessment (Based on 2 tests) (For each practical)	25 marks
Term-end University Examination (One examination for all the practical in a semester)	100 marks
Total	125 marks

c) **Project:**

Internal Assessment	125 marks
University Examination	250 marks
Total	375 marks

Pattern of Question paper

The pattern of question paper for the term end examination is as follows:

The question paper will consist of 3 parts.

Part A – 20 Marks; will have compulsory objective type questions/short answer questions, carrying 1/2 marks each (6x2 marks+1x8 marks).

Part B –40 Marks; candidate has to answer any 5 questions out of 8 questions, each carrying 8 marks.

Part C –40 marks; candidate has to answer any 4 questions out of 6 questions, each carrying 10 marks.

Minimum required for Pass

Theory/Practical/Project - 40 out of 100 marks in termend examination and 50 of 125 marks including internal assessment marks.

Results:

Declaration of Classes

Distinction	More than 70 percent
I Class	More than or equal to 60% but less than 70% Marks
II Class	More than or equal to 50% but less than 60% Marks
Pass	More than or equal to 40% but less than 50% Marks

IMPORTANT INSTRUCTIONS TO CANDIDATES

- 1) A Candidate seeking admission to B.Tech. BCA, MCA , Integrated MCA, MBA(IS),M.Sc(HTM) and B.Tech(CS). programme should fill-in the Admission Form (attached to the prospectus) legibly and in capital letters after carefully reading the prospectus and indicate the programme he / she wishes to study, in the space provided for the purpose.
- 2) Remit the Tuition, Registration and Examination fees and penal fee (if any) in two Crossed Demand Drafts (DDs), one drawn in favour of “**Finance Officer, KSOU**”, payable at Mysore, and the other in favour of “**Sharada Vikas Trust**”, payable at **Bangalore. Candidate should not make any cash payments to the study center under any circumstances, except for the prospectus.**
- 3) Candidates while submitting the application form shall follow the instructions given below:
 - a) The application form duly filled-in should be submitted to the study center on before the last date as mentioned in the advertisement.
 - b) The candidates should submitted three copies of stamp-size photographs of which one must be pasted to the application form in the space provided and one on identity card. The remaining one copy must be put in a separate cover and pinned to the application form. On the back of each of these photographs the candidate must mention his name, program & semester and serial number of the admission application form.
 - c) **Before remitting the prescribed fees, candidates shall make sure that they fulfill all the eligibility conditions for admissions to the programmes applied for. They should enclose all the supporting certificates since at a later date, they will not be entertained. The fees once remitted will not be refunded under any circumstances.**
- 4) The candidates shall submit the filled-in application form along with two crossed DD's , identity card and certificates to the respective study centers. The study center shall forward these applications to the SVT office at Bangalore, after verifying the original certificates and certifying the Xerox copies by the authorized person of the study center along with the seal of the study center. The study center shall return the original certificates as also the candidate copy of 'Receipt for Admission Form' to the candidates and retain its copy of the receipt with them.
- 5) Admission made to any program is provisional till the time University finally approves it.
- 6) Money orders, IPO, or any other mode of payments will not be accepted. The University will not be responsible for any loss through such modes of payment.
- 7) Candidates are required to preserve carefully the fee paid receipt for all payments made to the University, as it is the only valid documents accepted. They may have to produce this copy at the time of obtaining examination admission tickets, marks cards or any other documents.
- 8) Identity card bearing permanent Roll N0. will be issued to every candidate after the admission is finalized by the KSOU. Till such time, the provisional list of processed

applications will be sent to the respective study centers by SVT, Bangalore and also the list will be hosted on the website www.sharadavikas.com

- 9) In all correspondence with the University the candidates shall quote his/her application no./Roll No. and the programme applied for.
- 10) First semester program fees has to be paid by quoting the application number on the back of the DDs.

For further details, Please visit www.sharadavikas.com svt@sharadavikas.com

OR

www.ksoumysore.com or call 080-22440420, 41477873, 65957936 SVT, Bangalore The study center will be the source point for all information or guidance.

- 11) SVT is the service provider. For all legal disputes, SVT is liable.

RULES OF THE UNIVERSITY

- 1) **Candidates shall abide by the Rules and Regulations in force as well as those that may be issued by the University from time to time.**
- 2) **False declaration of qualification by the candidate will disqualify his/her admission to the university including appropriate penal action.**
- 3) **All legal disputes, if any, shall come under the jurisdiction of Mysore City Courts only.**
- 4) **This prospectus provides all necessary information that you need as a candidate of the various Courses of the University. You are therefore advised to keep this prospectus till you complete your programme. Avoid unnecessary queries about the details already available in this prospectus.**
- 5) **To receive the Degree Certificate after passing the examination, a candidate should apply directly to The Registrar (Examination), Karnataka State Open University, Manasagangotri, Mysore-570006, in the prescribed Convocation form. Other details may be obtained from the University after the press notification about the convocation.**
- 6) **Provisional Pass Certificate will be issued by The Registrar (Examination) on request with his/her details including Xerox copies of marks cards and on payment of prescribed fee of Rs.200/- through DD drawn in favour of Finance Officer , KSOU payable at Mysore, soon after the declaration of results by the University.**
- 7) **If the original Identity Card is lost , duplicate Identity Card may be obtained from the office of the Deputy Registrar (Admission) on payment of Rs.100/-through DD drawn in favour of Finance Officer, KSOU payable at Mysore.**
- 8) **Any change of address should be intimated to the University and SVT Bangalore. Kindly note that any change of address in the middle of the academic year may cause serious delay or loss in the postal transit.**
- 9) **Original Certificate of the candidates will initially be verified by the study centers and later by SVT Bangalore representatives at a place & time specified by KSOU , in due course.**
- 10) **Changes/updation in the syllabus can be done by KSOU periodically as per the industry demands and to keep abreast of the various technological developments that have taken place.**

Sharada Vikas Trust^(R)
Advisory Council

Sri Venkatachalapathi D.V.	CMD Vikas Global Solutions Ltd. and President S.V.T
Dr. K Sudha Rao	Ex V. C., KSOU and Prof Head Dept. of Education [NUEPA]
Sri Prakash Ullal	Director Vikas Global Solutions Ltd.
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Sri S Viswanathan	IIM Ahmadabad, Consultant VGSL Bangalore.
Sri SankaranFCA	Director, Vikas Microchip Technologies
Dr. Raj Mohan Rao	CMD, United Telecom
Sri Ashok V David	IAS (Rtd)
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Dr Cynthia Menezes Prabhu	Prof. Canara Management College, Bangalore University.
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