

## Department of Computer Applications

Established in 2006, the Department of Computer Applications at the Federal Institute of Science and Technology (FISAT) offers a distinguished two-year MCA programme with an annual intake of 120 students and a PhD Programme. Affiliated with APJ Abdul Kalam Technological University and recognized by AICTE, both the programmes aim to empower individuals aspiring to excel in the field of technology.

The Master of Computer Applications (MCA) programme is a two-year postgraduate programme that focuses on the study of information technology and computer science. Encompassing a wide array of subjects including programming languages, advanced data structures, databases, software engineering, web development, cloud computing, artificial intelligence and more, the MCA programme enables students to specialize in specific areas of computer science. This specialization enhances their expertise and increases employability in the dynamic field of IT.

The department's mission revolves around achieving academic excellence by providing quality education, enhancing students' mastery skills, and offering professional training to ensure their readiness for successful careers, with a strong emphasis on social commitment. The department's strategic planning at the outset of each academic year aims to position itself as a center of excellence in professional education while upholding a commitment to continuous quality assurance.

Backed by a team of highly qualified and committed faculty members with substantial expertise, the department consistently secures top positions in University Examinations. The vibrant placement cell of the department plays a pivotal role in facilitating excellent placement opportunities in renowned MNCs, including IBM, TCS, UST Global, IBS, CTS, SOTI, and prominent banks like Federal Bank. Striving to bridge the gap between industry and academia, the department organizes diverse industry readiness training programs, domain expert workshops, and extracurricular activities to enrich students' knowledge and skills. Annual initiatives, including conferences, faculty development programmes, workshops, expert talks, project exhibitions, and personality development courses, contribute to the department's reputation for excellence.

## VISION

To mould globally competent and socially committed professionals to meet the demands of the society

## MISSION

1. To impart quality education at postgraduate and doctoral levels in the field of Computer Applications.
2. To provide a conducive environment so as to achieve excellence in teaching-learning, and research and development activities.
3. To bridge the gap between industry and academia by offering suitable add-on programmes considering the industrial and societal needs.
4. To promote experiential and technology intensive knowledge through collaborative and interdisciplinary activities through digital learning.
5. To provide appropriate forums to nurture the innate skills and talents so as to take up challenging professions successfully upholding ethical values and life-long learning skills.

## PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

1. Graduates of this programme will be able to demonstrate professional excellence in academia and to develop software solutions for the IT related problems of the society and industry.
2. Graduates of this programme will contribute significantly in technological advancement through research and computer applications and be committed to lifelong learning.
3. Graduates of this programme will be successful team leaders and entrepreneurs with computational skill, value orientation and professional ethics.

## Programmes offered

### Integrated MCA

The Department of Computer Applications at Federal Institute of Science and Technology (FISAT), established in 2006, offers a transformative educational experience. We are pleased to announce the launch of an Integrated Master of Computer Application (MCA) programme, commencing from the next academic

year, 2025-2026. This five-year integrated programme combines the best of undergraduate and postgraduate education, offering a comprehensive learning experience that prepares students for the IT industry. This programme has received approval from AICTE and KTU.

By joining this integrated programme at FISAT, students embark on a rewarding career in computer applications, poised to make a significant impact in the ever-evolving tech industry.

The Integrated MCA programme at FISAT offers a comprehensive curriculum, aligned with KTU's current syllabus, covering foundational concepts in computer science and applications. The course structure consists of Core courses, Elective courses, Lab courses, Mini Projects, Seminar, Comprehensive Viva, Main Projects and Non-credit courses.

#### Eligibility Criteria:

Passed 10+2 (SSLC and Plus 2) Examination with Mathematics or Statistics or Accountancy as compulsory subjects. Obtained at least 45% marks (40% in the case of candidates belonging to reserved categories) in the qualifying Examination.

Candidates awaiting results of the qualifying examinations are also eligible to apply for admission provided they shall produce the proof of qualification on or before the date of admission by the College

#### Mode of Selection:

The selection process for the Integrated MCA programme at FISAT's Department of Computer Applications involves the following criteria:

Marks obtained in Plus Two or equivalent.  
Additional Weightage to students who opted for Computer Science/Maths at +2 level  
Performance in the department Test/Interview.  
Candidates securing the required cut-off marks will be shortlisted for counselling.

Final selection will be based on academic merit, considered during counselling.  
Admission confirmation will be subject to verification of documents.

MCA (Two Year)

Two year Post graduate programme consisting of four semesters.  
The annual intake is 120.  
The course is approved by AICTE and affiliated to the A.P.J. Abdul Kalam Technological University, Kerala.

ELIGIBILITY

Passed BCA/ Bachelor Degree in Computer Science Engineering or equivalent Degree OR  
Passed B.Sc./ B.Com./ B.A. with Mathematics at 10+2 Level or at Graduation Level (with additional bridge Courses as per the norms of the concerned University).  
Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying Examination  
Must qualify entrance examination conducted by a competent authority as per the rules and regulations of APJ/AICTE/Govt

Phd  
Research Scholars are registered for the Degree of Doctor of Philosophy (Ph.D.) as per the University norms. The Centre will provide required support and guidelines to pursue Ph.D under KTU. The Research Centre coordinates and monitors the progress of the research activities of the research scholars. The Research Centre also encourages and coordinates consultancy projects and sponsored projects.

1	Dr Shahna K.U	Research Supervisor	Cryptography and Cyber security
2	Dr.Sujesh.P.Lal	Research Supervisor	AI, IOT ,Networking
Scope of employment			

Master of Computer Applications is a popular postgraduate programme in the IT stream that offers a blend of theoretical and practical knowledge. The demand for the MCA course and IT professionals has been increasing and MCA graduates can expect better career prospects. The institution affiliated to the Kerala Technological University provides a two-year MCA course to meet the demand for trained IT professionals in the industry. The course curriculum is made in such a way that both classroom training and practical training is incorporated in the syllabus, which helps students to gain the required set of skills and technical knowledge to become an efficient professional in the IT world. At present, with the advancement of IT & Communication systems, people with good computer application skills are highly demanded in the IT sector. MCA qualified students can find jobs easily in the government and private sector. Candidates can get profiles as per their skills and caliber.

The top employers of our students include TCS, UST Global, IBM, Cognizant, GadgEon, Speridian, 6D Technologies, Infosys, Virtusa, Federal Bank etc

Upon successful completion of MCA, candidates can apply for the following profiles:

- Software Developer
- Data Scientist
- Computer Programmer
- Mobile App Developer
- System Analyst
- Cloud Architect
- Data Analyst
- Database Administrator
- Web Designer/Developer
- Senior Technical Consultant
- Project Manager
- Database Management in Banking Sector
- Teaching

Syllabus

The MCA Programme offered by the department is affiliated to the Kerala Technological University and the syllabus of the Programme has been framed by the university. The MCA programme is structured on a credit based system following the semester pattern with continuous evaluation. The duration of the MCA programme of the KTU is two years consisting of four semesters. The Course structure for the MCA programme consists of Core courses, Elective courses, Laboratory courses, Mini Projects, Seminar, Comprehensive Viva, Main Project and Non-credit courses. Also, the students should successfully complete any two MOOC courses from the list published by the University.

The course curriculum is made in such a way that both classroom training and practical training is incorporated in the syllabus, which helps students to gain the required set of skills and technical knowledge to become an efficient professional in the IT world.

Head of the Department (NB 203)

Dr. Deepa Mary Mathews

Head, Department of Computer Applications

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Admission to mca

MCA is a professional two-year PG programme in Computer Applications designed for aspirants who want to outshine in the world of technology. Securing full admissions to the MCA Programme in 2021 proves that the MCA programme offered by FISAT is one of the most sought after courses by students hopeful to turn out to be top class computer professionals.

The annual intake of students to the MCA course in FISAT is 120. The students were admitted to the course through careful screening and other admission criteria which include both merit based and entrance-exam based strategies. The college website was enabled to receive online applications and admission fees payment to activate the application.

### Eligibility

Passed BCA/ Bachelor Degree in Computer Science Engineering or equivalent Degree OR Passed B.Sc./ B.Com./ B.A. with Mathematics at 10+2 Level or at Graduation Level (with additional bridge Courses as per the norms of the concerned University).

Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying Examination

Must qualify entrance examination conducted by a competent authority as per the rules and regulations of APJ/AICTE/Govt.

For the academic year 2024-25 , the admission process to the MCA programme is going on.

Click on the Admissions tab to apply for the same.

Admission Coordinators :

1. Dr. Santhosh Kottam, Professor, Department of Computer Applications
2. Mr. Nithin Rajan, Asst. Prof., Department of Computer Applications.

### FACULTY MEMBERS

## **Dr. Deepa Mary Mathews**

HOD & Associate Professor



Date of Joining: 03 October 2006

Qualifications: PhD, M.Tech, MCA

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## **Dr. Santhosh Kottam**

Professor



Date of Joining: 28 May 2008



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**Ms. Senu Abi**

Assistant Professor (Senior Grade)



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**Ms. Manju Joy**

Assistant Professor (Senior Grade)



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### **Dr. Shahna K U**

Assistant Professor, Senior Grade



Date of Joining: 26 May 2008

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**Dr. Sujesh P Lal**

Assistant Professor, Special Grade



Date of  
Joining:

03 March 2014

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**Ms. Joice .T**

Assistant Professor (Special Grade)



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### **Dr. Shidha M V**

Assistant Professor (Special Grade)



Date of  
Joining: 03 December 2014

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Ph.D

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**Ms. Rose Mary Mathew**

Assistant Professor, Special Grade



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**Dr. Rakhi Venugopal**

Assistant Professor, Special Grade



Date of Joining: 09 November 2016

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**Ms. Anju L**

Assistant Professor (Special Grade)



Date of Joining: 13 February 2017

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**Mr. Nithin Rajan**

Assistant Professor



Date of Joining: 01 August 2017

Qualifications: M.Com, UGC-NET

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**Ms. Sona Mary Louis**

Assistant Professor



Date of  
Joining: 16 August 2019

Qualifications: MCA,  
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#### CONTACT INFORMATION OF FACULTY

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13	Ms. Sona Mary Louis	NB 204	91-484-2725-343, sonamary@fisat.ac.in

PLACEMENT MCA

Placement and Training cell plays a pivotal role in providing opportunities for students to grab their dream jobs. The PTC of the department is a team of experienced faculties and vibrant student representatives. The team is functioning inline with the Placement Cell of the institution. The cell is working hard to mould the students to fit themselves to the placement drives. For this, every student is made to go through a series of training programs for enhancing their skills in technical, aptitude and soft skill during their course for nearly 200+ hours. PTC has been successful in placing almost all the eligible students over these years. The fact that our students are placed in MNCs like IBM, TCS, Infosys, Accenture, CTS, IBS, UST Global, Government and Public Sector companies and commercial banks speaks volumes about the professional excellence of students.

## FACILITIES

### COMPUTER LAB

Department has enough labs which are used on a timetable basis to meet curriculum requirements.

The courses which have practical work will be provided labs every week.

A teaching faculty and two lab instructors are assigned the charge of each laboratory.

Labs are equipped with sufficient hardware and are using free and open source software.

All Labs are equipped with white boards.

Labs are fully air conditioned and ventilated.

Labs are equipped with UPS facility.

Each Lab is equipped with Internet .

### Department library

Besides the central library, the department has its own library facility which is an extension of the central library. The Department Library of Computer Applications has an extensive collection of books and hard copies of students' project reports.. The titles cover different areas of computer science and applications domain. Remote access to e-resources, e-journals like IEEE, Elsevier Science Direct etc can be accessed through Knimbus platform. The library has good reading room facilities and WiFi connectivity to help students to have informative time spend in the reference sections. The department library can be accessed by both the students and faculty during college working hours.

Faculty-in-charge: Dr. Rakhi Venugopal