**Master of Computer Applications - Vision & Mission**

**VISION**

To be the source of bringing out globally competent pioneering computing professionals, researchers, innovators and entrepreneurs and thereby succeed and contribute value to the knowledge-based economy and society. To prepare the students for the diverse work place of the Global Environment.

**MISSION**

* To offer high-grade, value-based Post-graduate and Doctoral programmes in the field of Computer Applications.
* To provide conducive environment so as to achieve excellence in teaching-learning, and research and development activities.
* To bridge the gap between industry and academia by framing curricula and syllabi based on industrial and societal needs.
* To offer tasks for experiential technology-intensive knowledge through collaborative and interdisciplinary activities.
* To provide appropriate forums to develop innovative talents, practice ethical values and inculcate as enduring learners.
* To facilitate students to nurture skills to practice their professions competently to meet the ever-changing needs of society

**PROGRAMME EDUCATIONAL OBJECTIVES (PEOS):**

PEO 1: Core Competence

* To prepare students to excel in the computing profession by providing solid technical foundations in the field of computer applications

PEO 2: Breadth

* To provide students various computing skills like the analysis, design and development of innovative software products to meet the industry needs

PEO 3: Lifelong Learning

* To motivate students to pursue lifelong learning and to do research as computing professionals and scientists

PEO 4: Professionalism

* To motivate students to communicate and function effectively in teams in multidisciplinary fields within the global, societal and environmental context.

**PROGRAMME OUTCOMES (POS):**

PO1: Computer Application & Engineering Knowledge

* Apply the knowledge of Computer Application, science, Computer Science engineering fundamentals and specialization to the solution of complex engineering and application problems

PO2: Problem Analysis

* Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of Computer Application, natural sciences, and engineering sciences

PO3: Design and Development of Solutions

* Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Investigation of Complex Problems

* : Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions

PO5: Modern Tool Usage

* : Create, select, and apply appropriate techniques, resources, and modern engineering Computer Application and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations

PO6: Engineer and Society

* Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice

PO7: Environment and Sustainability

* Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics

* Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice

PO9: Individual and Teamwork

* Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings

PO10: Communication

* Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

PO11: Project Management and Finance

* Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PO12: Lifelong Learning

* Demonstrate knowledge and understanding of the engineering and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments

**PROGRAM SPECIFIC OBJECTIVES (PSOS):**

1. Enable the students to select the suitable data model, appropriate architecture and platform to implement a system with good performance

2. Enable the students to design and integrate various system based components to provide user interactive solutions for various challenges

3. Develop an ability to apply knowledge in the computing discipline.

4. Develop ability to design and conduct experiments, as well as interpret data.

5. Develop ability to use research, experiment, contemporary issues to solve industrial problems.

**The fee structure for MCA**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MCA** | **2020-21** | **2021-22** | **2020-21** | **2020-21** |
| **1st year / Lateral entry** | **2nd year** | **2nd year** | **3rd year** |
| Tution fee | 45000/- | 45000/- | 45000/ | 45500/- |
| Caution money | 5000/- | Nil |  |  |
| Examination Fees | 1000/SEMESTER | 1000/SEMESTER | 1000/SEMESTER | 1000/SEMESTER |
| Sport Fees | 200 | 200 | 200 | 200 |
| Library Fees | 500 | 500 | 500 | 500 |
| Identy Card Fees | 100 | Nil |  |  |
| Student Welfare | 100 | 100 |  |  |
| Laboratory fees | 5000/- | 5000/- |  |  |
| Marksheet | 150 | Nil |  |  |
| Degree | 250 | Nil |  |  |
| Enrollment fee | 150/- | Nil |  |  |
| **Total** | **57,450/-** | **51,800/-** | **46700/-** | **47200/-** |

Note:

* Hostel fee per annum 17000/- (applicable only for students residing in the hostel) is as under:

1. For Double seated Room( per student/per Bed)Rs. 10000/-
2. Electricity Fees………………………………….Rs. 4000/-
3. Caution Money………………………………….Rs. 1000/-
4. Sports Fees………………………………………Rs. 1000/-
5. Generator………………………………………...Rs. 1000/-

***Seminars/Symposia/FDP organized by the department***.

|  |  |
| --- | --- |
| ***Event*** | ***Name of the Event*** |
| Workshop | Online Workshop with virtual lab on “Java Full Stack” held on 8-12 June 2020 |
| Workshop | Workshop on Next Generation Computing System held on 18 June 2020 |
| Workshop | Online Workshop on “Python Programming” held on 20-24 June 2020 |
| Expert Talk | Expert Talk On Internet of Things held on 7 July 2020 |
| National Conference | National Conference on Communication And Computing for Industry 4.0. held on 27-28 July 2020 |

About I.E.T.

Institute of Engineering and Technology (IET) is a premier institute established in year 2000 as a campus college of Dr. Ram Manohar Lohia Avadh University, Faizabad. I.E.T. is in its 19th year of operation, having shaped the future of over 4500 students so far, who are currently associated with leading organizations in different parts of India and abroad. At IET, ‘excellence is our motto and discipline our way’. IET runs B Tech and MCA programs approved by AICTE this is an University institution of Dr. Ram Manohar Lohia Avadh University, Faizabad. and run under the control of academic and executive council of the University.

Department COMPUTER APPLICATION (m c a)

The Department of MCA came into being in the year 2000. Since then it is offering most sought after courses in the field of MCA, at Graduate level. The department has well qualified staff, infrastructure and state – of –the – art equipment. Apart from regular academic work, the department actively involved in industrial training, consultancy, research & other profession activities. The department closes interaction with software development firms and R & D Establishment. Our faculty and staff strive for preeminence in creating and disseminating new knowledge on computing and prepare students to be leaders in computer science & engineering.

Computer Lab

Software Engg Lab, Computer Programming Lab, Linux Lab, Operating System Lab, CAD Lab, SAD Lab, DBMS Lab, OOPs Lab (C++/ Java) Lab, Visual Basic Lab, Shell Programming Lab, DSA Lab, MATLAB

