

## M.Tech (IT) Course Programme

The course program on M.Tech (IT) is designed to undertake advanced study in IT with an extensive coverage of the latest IT curriculum. It is ideally suited to the students having a degree/background in Computer Science/IT and foundations in mathematics. On successful completion of this program, a student may take up either a professional career in the fast growing IT industry or pursue research career in the field of IT

**DURATION:** 2 Years (Four Semesters)

### FLEXIBLE TIMING FOR WORKING PEOPLE

Class Timing - 07:00AM-10:00 AM  
&  
05:00 PM-07:00 PM -LAB)

Utkal University, located in the heart of capital city of Bhubaneswar, is the first university in Odisha and the seventeenth in India. It has made rapid strides and has made substantial contribution in the field of education, research and training.

Captive infrastructure of 27 Post Graduate Departments has placed this esteemed university today as a centre of excellence in higher education.

Tailor made Internship Opportunities and career oriented Placements for IT domain in Corporates, Start-ups, Industries like Banking & Retail and many more.

COURSE DIRECTOR, M.TECH (IT)  
PG. DEPARTMENT OF STATISTICS  
UTKAL UNIVERSITY, BHUBANESWAR-751004



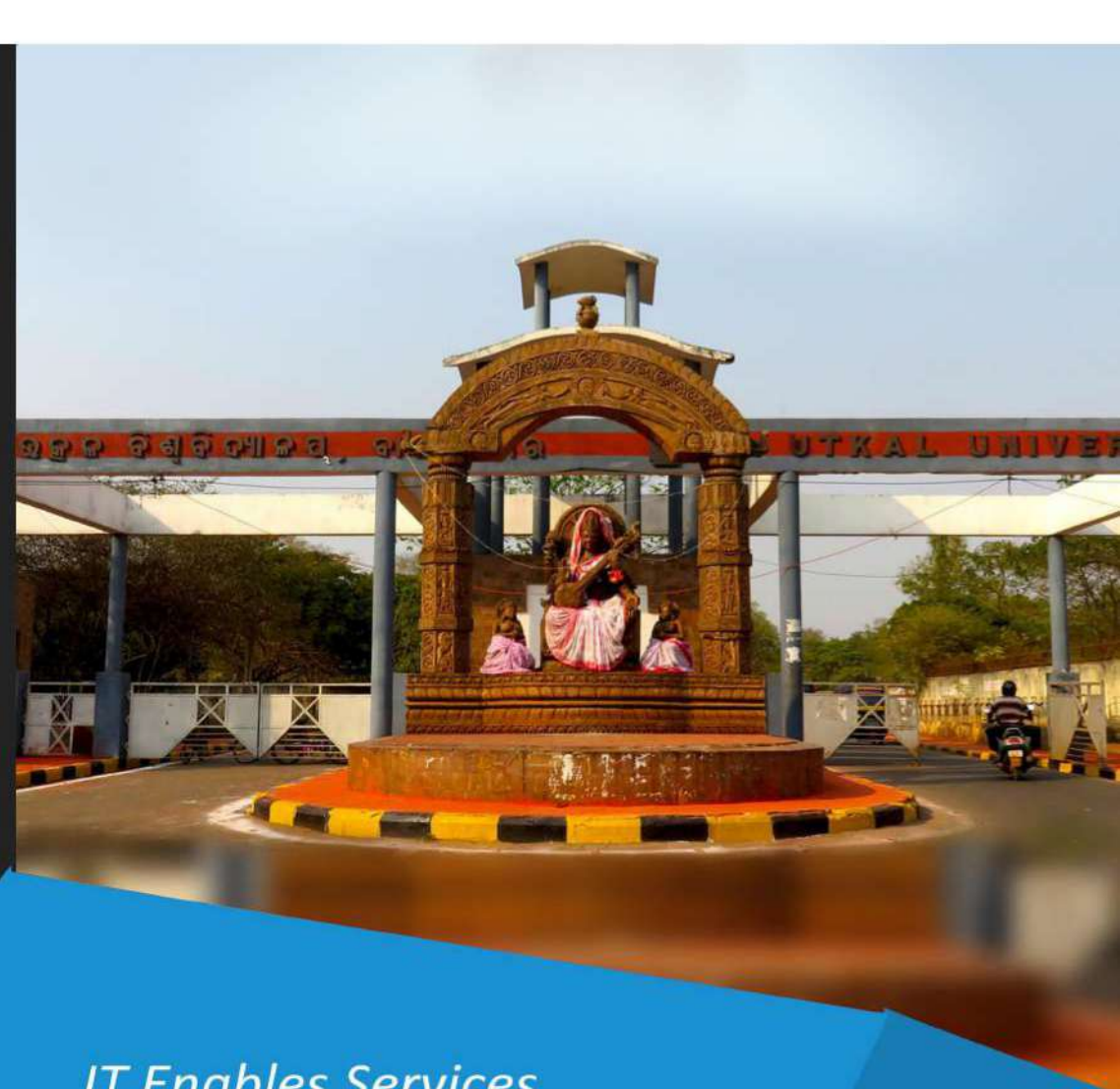
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*IT Enables Services.  
We enable Smiles.*

The era of Artificial Intelligence &  
Cloud Networking.  
"Information is Technology"

**M.TECH IN INFORMATION TECHNOLOGY**







## The Post-Graduate Department of Statistics

It came into existence in 1958. Being the pioneer Statistics Department of the state; it has played a significant role in the statistical teaching and research in the state. The department provides teaching facilities at PG & M.Phil level and research facility at Ph.D. level. The alumni of the department are well placed in government & semi-government departments, research/educational institutions, public and private sector undertakings including

**WE HAVE  
GREAT OPPORTUNITIES FOR  
YOUR EDUCATION**

## DOCUMENTS TO BE SUBMITTED WITH APPLICATION FORM

A. Attested copies of the following documents

- i. Certificates & mark sheets of the qualifying examination & all other examinations passed.
- ii. Conduct certificate from the institution last attended.
- iii. Admit card in case the result of the qualifying examination has not been published.
- iv. SC/ST certificate from the competent authority.
- v. PH certificate & ID card issued by District Welfare Officer/Community Development Officer of the State Govt.
- vi. Ex-serviceman/serving defense personnel certificate from the competent authority.
- vii. Sports certificates from the competent authority.
- viii. No objection certificate from the employer, if the applicant is employed.

B. An amount of Rs.500/- towards Application Form Fee & Entrance Test Fee through Online Payment or in shape of Bank Draft in favour of "Centre for IT Education, Utkal University" drawn on any Nationalised Bank payable at Bhubaneswar. The Fee will not be refunded even if the Application is rejected or the candidate fails to take up the Test.

C. Three stamp size photographs to be pasted at appropriate places in the application form.

## DOCUMENTS (IN ORIGINAL) AND FEES REQUIRED AT THE TIME OF ADMISSION

- i. Originals of all documents submitted along with the application form.
- ii. College Leaving Certificate.
- iii. Three stamp size photographs.
- iv. Utkal University Registration Receipt. Migration Certificate (For students from other universities)
- v. Undertaking Form duly signed.
- vi. Relieve order (in case of employees) from the competent authority.
- vii. Two separate bank draft: Rs 30000/- & Rs 15000/- in favor of "Comptroller of Finance, Utkal University" payable at Bhubaneswar.
- viii. Admission & Corpus fees shall be deposited in a separate bank draft in favor of "Comptroller of Finance, Utkal University" payable at Bhubaneswar.
- ix. Students of M.Tech (IT) are not entitled to be members of the Students' Council, Athletic Society and Dramatic Club of the University.
- x. If a Student Wants to Quit the Course Programme before the Completion, Then he/she shall have to deposit the rest amount of the course fees and other fees.
- xi. All Rules Formulated by the P.G. Council from time to time shall be applicable for admission into M. Tech (IT) Course Programme.

## SELECTION PROCEDURE

Selection of candidates for admission shall be made on the basis of an entrance test to be conducted by the Course Director in the P.G. department of Statistics, Utkal University on **15.07.2023**. The questions of the entrance test shall be of objective type on the following topics:

- A. Basic mathematics & Statistics (Weightage 40%)
  - i. Sets, relations, functions, real & complex nos, inequalities, permutation & combinations, binomial theorem, number theory, random variable & its probability distribution, discrete & continuous random variables, probability distribution-Binomial, Poisson, negative binomial, uniform, normal, Cauchy, gamma & beta distributions.
  - ii. Vector spaces & subspaces, linear dependence, matrices: rank & inverse, linear equations, determinants.
  - iii. Limit & continuity, Differentiation, Integration, Maxima & Minima, Multiple integrals & their evaluations, sequence & series of functions, convergence of sequence & series of functions, Theory of probability, classical, empirical & axiomatic definitions of probability, sample space, properties of probability, probability rules, conditional probability, Bayes theorem, independence of events.
- B. Computer Science (Weightage 40%)
  - i. Flow charts & algorithms, datatypes, constants & variables, operators, expressions, input/output, control constructs, functions, arrays, basic digital electronics (logic gates, logic function, flip-flops, shift registers, counters, decoders, multiplexers, PLDs) & computer organization, Elementary data structures- stacks, queues, arrays, linked lists, trees, OS, DBMS, computer network.
  - ii. Mental Ability (Weightage 20%) - Reasoning, logic & quantitative Aptitude.

## RESERVATION AND WEIGHTAGE

The reservation and weightage policy for candidates belonging to SC, ST, PH, Children of Ex-servicemen of the IAF, Children of serving defense personnel, Sports or Games personnel categories shall be applicable as per the rules followed by the P.G. Council.

## Admission Process

- For admission & application procedure & Queries, Please visit our website link <http://www.citeutkal.com/ADV.jpg>
- For course fee and other fees, please visit the following link <http://www.citeutkal.com/images/FeeStructure.png>
- Last date of issue and submission of the application form is **05.07.2023**
- Application Form can be downloaded from the link [http://www.citeutkal.com/Application\\_Form.html](http://www.citeutkal.com/Application_Form.html)

**EDUCATION IS  
MORE PRECIOUS**