

PGET-Based Admissions-2020

M. Tech. Programmes

Jaypee University of Information Technology (JUIT), Waknaghat offers two years programmes leading to the award of the Masters Degree in Technology, (M.Tech). The M.Tech programs attract the best student talent for higher studies with an aim that students can learn to interact with the professional world. M.Tech programmes are available in various specializations. Department of Biotechnology and Bioinformatics offers M.Tech programme in Biotechnology. Department of Civil Engineering offers M.Tech programmes Civil Engineering with specializations in Construction Management, Environmental Engineering and Structural Engineering. Department of Computer Science & Engineering and Information Technology offers two programmes, M Tech (CSE) and M Tech (CSE-IS) with specialisation in information security. Electronics and Communication Engineering offers M.Tech program in Electronics & Communication Engineering.

The M. Tech. programmes include compulsory core courses, elective courses and intensive dissertation in the respective area of specialization. Through compulsory core courses the students acquire a state-of-the-art advanced knowledge in a chosen M. Tech programme. The elective courses provide an opportunity to further specialize in the field depending on his/her interest and future career plans. For dissertation, students are required to take up problems on a particular topic in the field to focus their study and work. They are required to submit a dissertation/ report at the end of the dissertation. M. Tech. dissertation usually enables students to publish their results. Seminars are also part of the M. Tech curriculum for which students collect material on specific current topics and make presentations.

Post-graduate programmes of study to be offered during academic session 2020-21 are as given below

M. Tech in Biotechnology

The M. Tech in Biotechnology programme is designed to offer courses covering diverse and extensive aspects of Biotechnology and Life Sciences with strong emphasis on research. It encompasses streams such as Metabolic Engineering, Bioprocess Engineering, Molecular Biology of Infectious Diseases, Microbial Technology, Industrial Enzymes and Protein Engineering; Plant Cell Culture Technologies, Bioremediation, Food Technology & Probiotics, Biosynthetic Pathway Discovery and Gene Function, Genomic, Proteomic and Metabolomic Technologies, etc. Curriculum is enriched to help students to fulfill their research aspirations and current industrial demands. Working along with a blend of Ph.D. scholars and research fellows involved in intense research enhances the quality of research experience for M.Tech. students.

[For more information about department click here](#)

M. Tech in Civil Engineering (Specialization: Construction Management)

The program is focussed at learning Project Planning, Schedule and Cost Assessment and preparation of Detailed Project Report (DPR) for major projects. The course aims at learning the

regulatory, insurance, management, safety, planning tools, estimating and environmental aspects of construction management necessary for overall planning and control of a project. The program is endeavoured to make the student achieve the leadership skills to lead construction projects.

[For more information about Department click here](#)

M. Tech in Civil Engineering (Specialization: Environmental Engineering)

The interdisciplinary program is aimed at imparting advanced level education in Environmental Science and Engineering, for Analyzing and Controlling Environmental Pollution, Control Technologies, Management Practices and Sustainable Development. The course offers a wide variety of electives in areas like Clean Technologies, Membrane Separation Processes, Resource Conservation, Water Quality Management and Solid Waste Management.

[For more information about department click here](#)

M.Tech in Civil Engineering (Specialization: Structural Engineering)

The program relates to imparting in-depth knowledge in Structural Analysis and Design of Tall Buildings, Pre-Stressed and Composite Structures and Blast Resistant Design of Structures through advanced level of learning in addition to training on structural software. The program offers wide variety of core courses in Structural Engineering such as Finite Element Method, Structural Dynamics, Numerical Methods, Advanced Structural Analysis, Advanced RCC Design and Advanced Steel Design.

[For more information about department click here](#)

M. Tech in Computer Science and Engineering

This program is actively running since 2006. The Department has 17 faculty with Ph Ds from very reputed institutions. The Post Graduates of the department are well placed in leading research laboratories, industries and universities of national and international repute. The program provides advanced level education and research exposure in various areas of computing, and features subjects like Advanced Data Structures, Advanced Computer Networks, Advanced Database Systems, Advanced Software Engineering, Advanced Operating Systems, Advanced Algorithms, High Performance Computer Architecture, Multimedia Systems, Performance Evaluation of Networks, Parallel and Distributed computing and Advanced Computational Techniques in Engineering.

[For more information about department click here](#)

M. Tech in Computer Science and Engineering (Information Security)

Information Security is a fast growing area and has been recognized as a national priority. This program aims to enhance the knowledge and core competencies in contemporary computer science and also provide a deeper understanding of security related aspects. The curriculum includes a

comprehensive set of core and elective courses to achieve both these purposes. The program provides advanced level education and research exposure in various areas of computational Security, and covers subjects like Advanced Data Structures, Advanced Computer Networks, Advanced Algorithms, Advanced Operating Systems, Advanced Software Engineering, Cryptography and Information System Security, Advanced Database Systems Security, Digital Forensics, Information Systems Security, Cyber Warfare & Cyber Crime Control, Secure Enterprise Computing, Secure Software Design, Security Design & Architecture, Security investigation, Security Risk Analysis, Security Scripting etc.

[For more information about department click here](#)

M. Tech in Electronics and Communication Engineering.

The program provides compulsory core courses, elective courses and intensive thesis work in the area of Electronics and Communication Engineering. The objective of the program is to impart advanced level knowledge in the field of specialization in subjects like VLSI Circuit and System Design, Advanced Telecommunication Network, Advanced Satellite and Fiber Optic Communication, Advanced Communication System, Mathematical Techniques for Engineering, Multimedia Communication Theory and Standards, Advanced Digital Signal Processing, Advance Wireless & Mobile Communication, Information & Coding Theory, Advanced Neural Networks, Antenna and Radio Wave Propagation, Real Time Embedded System, Advanced CMOS Digital Design Techniques, Biomedical signal and Image Processing.

[For more information about department click here](#)