

## Why study M.Tech. Network Engineering at RSET?

The M.Tech. in Network Engineering prepares practicing networking professionals and graduates with skills in design, management and maintenance of computer networks. The course develops technical skills in critical evaluation of existing technology options, future developments, protocols, architecture and tools needed to support the development and delivery of advanced network services.

Our department has two specialist laboratories equipped with the latest industry-standard hardware and software, including Internet of Things (IoT) lab suits, Concurrent Programming environment like MPI, OpenMP, CUDA, OpenCL, Erlang, Map Reduce and OpenACC, Network lab suits which includes high end switches and routers, and cloud computing systems. While studying for this qualification you will work with our IoT Test bed, Software Defined Networks and Blade Server, and you will learn how to access and configure cloud-based networks.

M.Tech. Network Engineering @RSET emphasises employability skills in communication networks, collaboration and project management.

### Our Strengths

- 6 MG University Ranks in M.Tech. Network Engineering
- We encourage students to explore new concepts and developments and were delighted when three of our students were crowned winners for the prototyping of "Emergency Response System for INDIA" in the Alpha Category at **TiEcon Kerala 2015** by Mr. Mohamed Jasim M, Mr. Muhammed Sadique U K and Mr. Rejin R Krishna of third semester MTech in Network Engineering.
- Participation of Mr. Mohammed Jasim and Mr. Muhammed Sadique of S3 MTech Network Engineering to exhibit their "Emergency Response System" in Access Abilities Expo 2016 held at Dubai International Convention Centre on February 2016 .
- Our strong research profile ensures our courses remain innovative. We have developed our own IoT, Concurrent Programming Lab, Networking lab suits and have also undertaken notable research in areas such as Distributed Computing Systems, Wireless and Adhoc Networks and Data Mining and Analytics.
- The course is suitable for both recent graduates and IT professionals who wish to further their knowledge.
- Placement in top MNCs
- Student projects in alliance with Foreign universities, NITs & IITs
- Graduate Assistanceship for eligible students
- Student Internship @ Foreign universities
- Exposure to industry standard projects
- Participation in funded projects
- Paper publication in reputed international journals
- Some of our post graduate students/faculty members are regular facilitators/advisors to various events organised by famous colleges, industries and government departments.

### What you will study?

The course gives you an in-depth understanding of computer network design, implementation and optimisation. You'll model, monitor and analyse networks in various situations, simulating performance and availability to configure them for optimum performance. You will also focus on

cloud-based networks and the course explores modern data centres, virtualisation and distributed storage. Following subjects are taught during the course

- Cloud Computing Concepts
- Internetworking Technologies
- Multicore Architecture & Programming
- Linux Shell Scripting
- Design of Computer Networks
- Foundations in Big Data Processing
- Enterprise Devices & Networks
- Modern Concurrent Programming Paradigm
- Distributed Algorithms
- High Performance Networks
- Internet Routing Design
- Cyber Physical Systems
- Network Security
- Advances in Storage Area Networks
- Big Data Analytics
- Concurrent Algorithms and Data Structures
- Social Network Analysis
- Intrusion Detection Systems
- Software Defined Networking
- Network Forensics
- Cloud Security
- Green Computing

### **Career outlook**

Graduates work in the design, manufacture and supply of telecommunication and network devices, systems and services in areas such as:

- Telecommunications
- Networking
- Transportation
- Security
- Defence
- Health
- Education
- Emergency services

Others graduates establish their own business or undertake higher studies by research.

### **Placement**

Graduates of the M.Tech. Network Engineering @ RSET will get placement assistance in leadership roles in network management system administration and ICT services delivery and management within a wide range of public and private enterprises.

Typical roles (some with additional work experience) include Network Architect, Network Manager, System Administrator, Senior Sales Engineer, Senior Network Engineer, Senior Systems Engineer, Support Manager, Internet/Intranet Network Manager, Senior Network Analyst, Senior Network Design Engineer, Senior Network Capacity Planner, Senior Network Solutions Architect, Senior Network Security Specialist, Senior Mobile Applications Developer, and Senior System Administrator.

### **National and International opportunities**

RSET encourages students to aspire to a global career, not just a local one. Through partner organisations in Europe, RSET offers workplace training and academic research placements between 6 and 12 months.

RSET also offers internships in national reputed academic and research institutes and leading research companies. Most of our student interns are successful in converting internships into employment or research position.

### **Contact**

For more details, aspirants may contact : Binu A., (9746244867)