

**GLOBAL INFRASTRUCTURE  
MANAGEMENT  
AT YOUR FINGER TIPS**

**JAIN UNIVERSITY**

Declared as Deemed-to-be University u/s 3 of the UGC Act, 1956



**M.Sc. in Infrastructure Management Services**

Knowledge Partner  
**iNURTURE** Tomorrow's here  
Education Solutions

## PROGRAMME OVERVIEW

This course is aimed at students who have completed graduation and are keen on making a career in the fast growing field of IT Infrastructure management. Students who graduate from this program would be capable of implementing IT infrastructure solutions and handling the Industry challenges. The course provides the student comprehensive knowledge, technical expertise and hands-on experience in IT Infrastructure Management.

The course provides opportunity for the students to learn all aspects of IMS such as Networking, Operating Systems, Virtualizations and Data Center technologies. The early part of the course engages in Basics, and as the student progresses, the amount of LAB exercises increases, thereby giving the student a “real world” experience. In the last semester, the student can opt for an industry based internship, which helps the student to familiarize with the needs of the industry.

### Programme Name

Master of Science

### Programme Code

044

### Course code and Name

4411 M. Sc in Infrastructure Management Services

### Degree Awarded

Master of Science

### Duration of the Programme

2 years, 4 semesters

### Eligibility

The minimum qualification to apply is a Bachelor's degree in the relevant discipline.

### Medium of Instruction / Examination

English

### Study Campus

**School of Sciences - Dept. of Information Technology**  
**Jain University, # 34, 1<sup>st</sup> Cross, JC Road, Bangalore - 560 001**

### Programme Timings

8:30 am - 4:30 pm (Mon to Sat)

### Course Advisor

Dr. Easwaran Iyer  
M: +91 98457 26725

### Examinations & Assessments

1. Internal tests

2. Assignments
3. Seminar presentation
4. Class tests
5. Preparatory theory and Practical examination
6. End term theory and Practical examination

## Curriculum

### Semester 1

Computer System Organization  
Designing Enterprise Networks  
Application Programming  
Data Center Architecture And Storage Management Fundamentals  
Server Operating System I  
**Learning Labs:** Programming and Operating Systems Lab  
Mini Project-1

### Semester 2

Server Operating System II  
Principles of Virtualization  
Unified Communication and Network Security  
Designing and Architecting Enterprise Networks  
Elective I  
**Learning Labs:** Network Lab  
Mini Project-2

### Semester 3

ITS Security Systems and Management  
ITIL AND HPSM/MICROSOFT SM  
Advanced Network Security  
Concepts of Open Source Scripting Languages  
Elective II  
**Learning Labs:** Systems & Security Lab  
Mini Project-3

### Semester 4

Final Project and Internship

## CAREER OPPORTUNITIES

Remote Infrastructure Management Services (RIMS) is an industry which started in 2005, and has been one of the fastest growing areas within the IT sector in the past 5 years.

As per NASSCOM, approximately 1,00,000 jobs are being created every year worldwide (including the domestic market) in this area.

6 BN USD (INR 35000 cr) industry in the year 2011, growing to become 12 BN USD (INR 70,000 cr) in the year 2015.

Over the last five years, the RIM segment has been on an accelerated growth path in India growing at a CAGR of over 25 % per cent. It is estimated that by 2020 RIM can contribute more than a third of total IT services revenues for India.

Cloud Computing, virtualization, unified communication and green datacenters are fast reshaping the technology infrastructure landscape and provide a unique opportunity for RIM providers in India to build unique offerings and new business models