

## GLOBAL IT INFRASTRUCTURE MANAGEMENT AT YOUR FINGER TIPS

### JAIN UNIVERSITY

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



## B.Sc. in IT Infrastructure Management Services

Knowledge Partner

**iNURTURE** Tomorrow's here  
Education Solutions

## PROGRAMME OVERVIEW

This course is aimed at students who have completed schooling (Plus 2/PUC) and are keen on making a career in the fast growing field of IT Infrastructure Management. Students who graduate from this program will have a good understanding of all the aspects of IT Infrastructure Management Services (IMS), with an exposure to Industry practices.

The course provides opportunity for the students to learn all aspects of IMS such as Networking, Operating Systems, Virtualization and Datacenter Technologies. The early part of the course engages in Basics and as the student progresses, the LAB exercises increase, 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 and the practices of the industry.

### Programme Name

Bachelor of Science

### Programme Code

003

### Course code and Name

309 B. Sc in Infrastructure Management Services

### Degree Awarded

Bachelor of Science

### Duration of the Programme

3 years, 6 semesters

### Eligibility

The minimum qualification to apply is a PUC / ISC / CBSE or Equivalent stage.

### 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

Language

English

Introduction to Linux/ Unix concepts

Fundamentals of Operating System: I

Programming Fundamentals with C Programming

**Learning Labs:** Programming with C Lab

Computer & Operating System Lab

**Value Enhancing Course (VEC):** Computer Fundamentals

#### Semester 2

Language

Communicative English

Fundamentals of Operating Systems II

Introduction to Data Structures

System Configuration and Maintenance

**Learning Labs:** Object Oriented Programming Lab

Mini Project 1

**Value Enhancing Course (VEC):** Environmental Science

#### Semester 3

Web Technology

Introduction to Information Security

Server Infrastructure Management I

Advanced Linux RHCE

Business Organization Basics

**Learning Labs:** Internetwork Implementation - Theory & Lab

Linux RHCE Lab

**Value Enhancing Course (VEC):** Indian Constitution

#### Semester 4

Advanced Web Technology

Linux Administration

Advanced Information Security

Server Network Infrastructure Management-II

Computational Mathematics

**Learning Labs:** Mini Project 2

Server Network Infrastructure Management-II

**Value Enhancing Course (VEC):** Mind Management & Human Values

#### Semester 5

Virtualization Technologies

Fundamentals of Datacenter

Fundamentals of DBMS

Introduction to Cloud Computing

Oracle DBMS with PL SQL

Learning Labs  
Datacenter & Storage Lab  
Mini Project 3 (Security)

## **Semester 6**

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.