JAIPUR NATIONAL UNIVERSITY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

School of Engineering & Technology

Department of Computer Science & Engineering's Vision Statement

With everyday advancements in computer science and technology field we aim to transform our students to be member of world class powerful technical elites.

Our Achievers

Our Strengths

- Academic collaboration with **University of Missouri, Kansas City, USA** for B. Tech. (from JNU) and MS (from UMKC) Integrated Program.

- **Four projects** of B. Tech. students accepted under **Smart India Hackathon 2017**, by Government of India.

- **Well equipped Laboratories** – licensed software and latest hardware.

- Syllabus designed to cater Industry needs.

- Emphasis on practical application of concepts.

- Industrial visits/tours for real-world exposure.

- Workshops and seminars for familiarization with advanced technologies

- Experienced and qualified faculty members.

WORKSHOPS/CONFERENCES

- Workshop on **TECHTRON 2016** organized in association with **IIT, Hyderabad**.

- Workshop on **AutoCAD** in Sept 2016 in coordination with **CADD Center,** Jaipur.

- Workshop on **Project Design and Fabrication** in association with **TechieNest** in 2016.

- Demonstration of **PSIM** and **LABVIEW** software by **Trident Techlabs Pvt. Ltd.**, 2016.

- Special Lecture by **Dr. M. Goswami**, **General Manager, TCS**, 2016.

- Workshop on **WebVR** and **A-Frame** for creating **Virtual Reality** (VR) experiences with HTML.

- **QEEE Web Lectures** from Professors of IITs across India in association with IIT Chennai.

Academic Programmes

1. Outline of B.Tech CSE Programme

- **Course Offered:** B.Tech. and B.Tech + MBA (Dual Degree)
- **Eligibility Criteria:** 10+2 Science Stream with PCM/PCB
- **Specialization:** Computer Science & Engineering
- **Duration:** 4 Years (For B.Tech)
  5 Years (For B.Tech +MBA)
- **AICTE Approved:** Yes

2. Outline of M.Tech. CSE/IT Programme

- **Course Offered:** M.Tech.
- **Eligibility Criteria:** B.Tech (CSE/IT), MCA, M.Sc (CS/IT)
- **Specialization:** Computer Science & Engineering
- **Duration:** 2 Years

Academic Programmes

3. **Outline of Ph.D Programme**

- **Course Offered:** Ph.D
- **Eligibility Criteria:** M.Tech (CS/IT)
- **Duration**: Min. 3 Years
- **Approved By:** AICTE, NAAC and UGC under Section 2(f)
- **Specializations:** Software Engineering, Computer Networks, Artificial intelligence, Neural Networks, Intelligent Agents, Security & Cryptography

Areas of Specialization

- Artificial Intelligence
- Mobile Apps
- Software Design
- Consultancy Services
- Database Design
- Broadband Services
- ISPs
- IT Operations
- Instrumentation
- Packaged Software

- Information Security
- Networking
- Big Data
- Cloud Computing
- Automation
- Virtualization
- Networking
- Protocol Design
- EDP Industry
- ERP Solutions

Curriculum

I Semester		II Semester	
Code	**Subject Title**	**Code**	**Subject Title**
101T	English	201T	English
102T	Engineering Mathematics –I	202T	Engineering Mathematics – II
103T	Engineering Physics - I	203T	Engineering Physics - II
104T	Engineering Chemistry – I	204T	Engineering Chemistry – II
105T	Introduction to IT	205T	Programming and Problem Solving using 'C' Language
106T	Fundamentals of Electrical Science	206T	Fundamentals of Electronics
114T	Environmental Studies	207T	Mechanical Engineering
107P	Language Lab.	208P	Communication Techniques
108P	Engg. Physics Lab. I	209P	Engg. Physics Lab II
109P	Engg. Chem. Lab. I	210P	Engg. Chem. Lab II
110P	PC Software Lab.	211P	Comp. Prog. Lab
111P	Practical Geometry	212P	Machine Drawing
112P	Engineering Workshop Practice	213P	Basic Electronics Lab.

Curriculum

III Semester		IV Semester	
Code	Subject Title	Code	Subject Title
3CS1	Mathematics III	4CS1	Object Oriented Programming Using C++
3CS2	Data Structure and Algorithms, through 'C'	4CS2	Software Engineering
3CS3	Discrete Mathematical Structure	4CS3	Microprocessor and Interface (8085)
3CS4	Principal of Programming Languages	4CS4	Database Management System
3CS5	Electronics Devices and Circuits	4CS5	Communication Fundamentals
3CS6	Switching Theory and Logic System Design	4CS6	Optimization Techniques
3CS7	Data Structure Lab	4CS7	Object Oriented Programming Lab
3CS8	Electronics Devices & Circuits Lab	4CS8	Software Engineering Lab
3CS9	Digital Electronics Lab	4CS9	DBMS (MySQL) Lab
3CS10	Web Design Lab using HTML/ DHTML	4CS10	OT Simulation Lab (C/C++)

Curriculum

V Semester		VI Semester	
Code	**Subject Title**	**Code**	**Subject Title**
5CS1	Computer Graphics	6CS1	Computer Networks
5CS2	Theory of Computation	6CS2	Operating System
5CS3	Programming in Java	6CS3	Relational Database Management System
5CS4	Object Oriented Modeling and Design	6CS4	Application Development using Java
5CS5	Computer Architecture	6CS5	Simulation and Modeling
5CS6	**ELECTIVES (any one of following)** 5CS6.1 IC Technology 5CS6.2 Logical and Functional Programming 5CS6.3 Information Theory and Coding 5CS6.4 System Analysis and Design	6CS6	**ELECTIVES (any one of following)** 6CS6.1 Fuzzy Systems 6CS6.2 Organizational Behaviour 6CS6.3 E-Commerce 6CS6.4 Advance Computer Architecture
5CS7	Computer Graphics Lab (C/C++)	6CS7	UNIX Shell Scripting and TCP/IP Lab
5CS8	Microprocessor Lab	6CS8	RDBMS Lab (SQL Server/Oracle)
5CS9	Java Programming Lab	6CS9	Java Application Lab
5CS10	Presentation Seminar	6CS10	Project Design with Seminar

Curriculum

Code	Subject Title (VII Semester)	Code	Subject Title (VIII Semester)
7CS1	Design & Analysis of Algorithms	8CS1	Compiler Construction
7CS2	Image Processing & Pattern Recognition	8CS2	Distributed Systems
7CS3	Client Server Architecture	8CS3	Data Mining and Warehousing
7CS4	Programming with C#.Net & ASP.Net	8CS4	**ELECTIVES (any one of following)** 8CS4.1 Cyber Law and IPR 8CS4.2 Artificial Intelligence and Experts Systems 8CS4.3 Mobile Computing 8CS4.4 Information Security and Cryptography
7CS5	**ELECTIVES (any one of following)** 7CS5.1 Real Time Systems 7CS5.2 Multimedia Systems 7CS5.3 VLSI Tools and Techniques 7CS5.4 Open Source Systems		
7CS6	Minor Project	8CS5	Major Project
7CS7	Web based Applications Lab	8CS6	X-Windows Programming Lab
7CS8	C#.Net/ASP.Net Application Development Lab	8CS7	Compiler Construction Lab
7CS9	Practical Training Presentation	8CS8	Seminar

Faculty Members

S. No.	Name of Faculty	Designation	Qualifications	Experience
1	Dr. Savita Shiwani	Asso. Professor & Head of Dept.	M.Tech, Ph.D	18
2	Mr. Navneet Verma	Asso. Professor & Sr. Asst. Director	M.Tech, B.Tech	13
3	Dr. Sanjay Kumar	Assoc. Professor	M.Tech, Ph.D	15
4	Mr. Sanjay Kumar Gupta	Asstt. Professor	M.Tech, B.Tech	13
5	Mr. Vishal Sharma	Asstt. Professor	M.Tech, B.Tech	10
6	Ms. Varsha Himtani	Asstt. Professor	M.Tech, B.Tech	9
7	Ms. Sunita Sharma	Asstt. Professor	B.Tech, M.Tech(P)	9
8	Mr. Vinay Verma	Asstt. Professor	M.Tech, B.Tech	8
9	Mr. Siddharth Mukherjee	Asstt. Professor	M.Tech, B.Tech	7
10	Mr. Vikas Verma	Asstt. Professor	M.Tech, B.Tech	6
11	Mr. Namit Bhati	Asstt. Professor	M.Tech, B.Tech	2
12	Ms. Ekta Khandelwal	Asstt. Professor	M.Tech, B.Tech	2
13	Ms. Isha Gupta	Asstt. Professor	M.Tech, B.Tech	2

Our Laboratories

INDUSTRIAL VISITS
Visit to Science Park

Extra-Curricular Activities

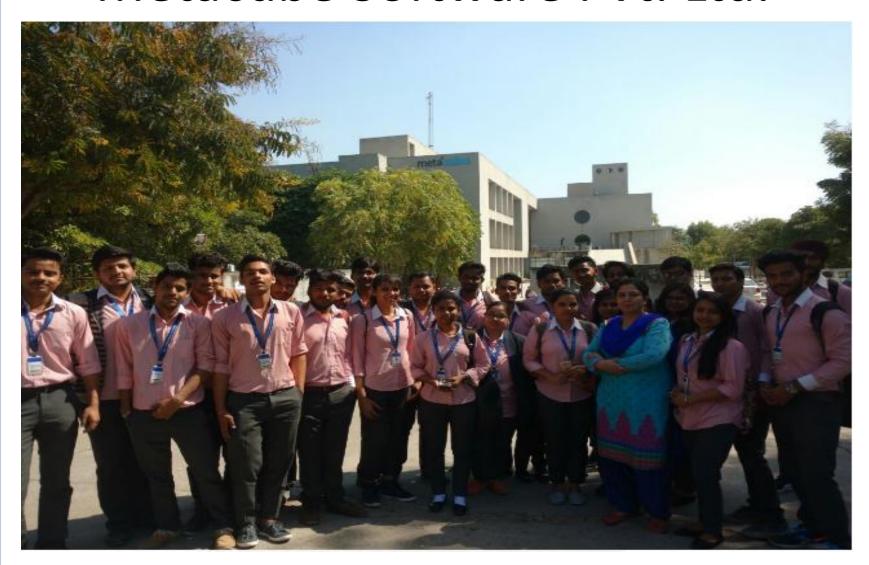The thrilling life at University is full of academic and cultural events which keep the students occupied throughout the year. Some of the events are:

1. TechnoRazz
2. Unicorn Club Activities
3. Mozilla Workshops
4. Virtual Reality Workshop
5. LAN Gaming
6. Hackathon
7. Seminars
8. Industrial Tours
9. Dramatics
10. Quizzes
11. C Debugging Copetition
12. Onsite Web Design Competition
13. Mobile App Development
14. Dance and Singing clubs
15. Flash Mobs

Industrial Visits
Metacube Software Pvt. Ltd.

IT DAY

Mr. Divyansh Trivedi and Ms. Kashish Nirala of B. Tech. VI Semester CSE, presented their idea, for the event Innovative Equation on 22nd March 2017. The Idea named "Analysis of Applications of Blue Brain on Deaf And Dumb People" was accepted for second round deliberations.

Cyber Security Seminar

MoU with University of Missouri, Kansas City, USA

Winners of CSE Quiz Day

CSE Quiz Day

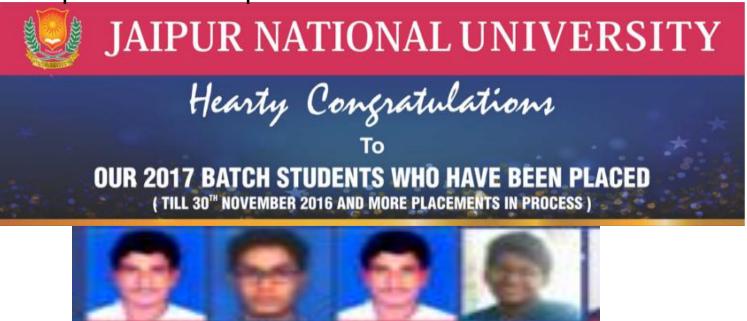# Unicorn Clubs' Workshop
Mozilla Virtual Reality Design

Placements

Jaipur National University has an independent Placement Cell to facilitate campus placements and jobs for the students. The Placement Cell also imparts training in soft-skills, personality development, written and oral skills, and employment trends in both public and corporate sectors.

Placements

Our Recruiters

Students' Feedback

- I am very happy and excited to be a part of Amazon. I am thankful, that I was provided with this opportunity. The corporate life here is amazing with all the casual dress code and casual behavior of the employees. **Mohit Agrawal**

- Yes I am satisfied with the Job as it is one of India's leading IT company and indeed a dream company of every B.TECH student. Thank. **Ankit Raj**

- It is indeed a great feeling to see myself selected in TATA group. I owe my Success to Jaipur National University! Thanks a lot! **Soumya Gupta**