



IT NEWSLETTER

DECEMBER 2018



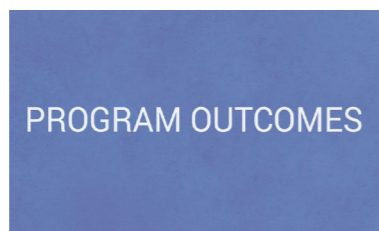
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VISION AND MISSION

Vision & Mission of Jaipur Engineering College & Research Centre, Jaipur

**VISION**

To become a renowned center of outcome based learning, and work towards academic, professional, cultural and social enrichment of the lives of individuals and communities.

MISSION

- Focus on evaluation of learning outcomes and motivate students to inculcate research aptitude by project based learning.
- Identify, based on informed perception of Indian, regional and global needs, areas of focus and provide platform to gain knowledge and solutions.
- Offer opportunities for interaction between academia and industry.
- Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.

VISION AND MISSION

Vision & Mission of Department of Information Technology

**VISION**

To establish outcome based excellence in teaching, Learning and commitment to support IT Industry.

MISSION

- To provide outcome based education.
- To provide fundamental & intellectual knowledge with essential skills to meet current and future need of IT Industry across the globe.
- To inculcate the philosophy of continues learning, ethical values & social responsibility.

PROGRAM OUTCOMES (POs)

1. Engineering Knowledge:

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. Problem analysis:

Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. Design/development of solutions:

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems:

Use research-based knowledge and research methods including design of experiments, analysis and interpre-

tation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage:

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. The engineer and society:

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and Sustainability:

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and Team Work:

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication:

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project Management and Finance:

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long Learning:

Recognize the need for, and have the preparation and ability to engage in independent and life

IDEATHON 2.0



Department of Information Technology focuses on project based learning. Project Based Learning encourages students to delve farther into a subject past simply recalling information. It provides active skills such as critical thinking, communication and cooperation. Working on the same ideology the department came up with IT IDEATHON 2.0 on 10th December 2018. All the participants put in their great efforts. The event coordinator was Mr. Naveen Kumar Kedia.

Department with IDEATHON 2.0 have focused on promoting the innovative ideas of the students and for them to showcase their talent.

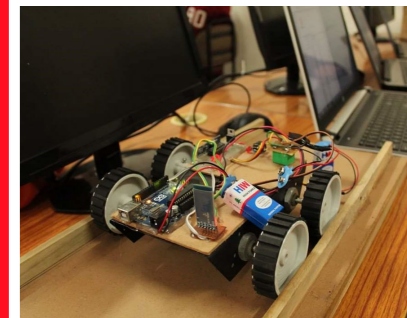
Our Prof.(Dr.) A. Williamson, Registrar studied and perceived each and every project presented by the students.

Special Thanks to our judges Mr. Gourav Sanghai, co-founder of Bodhi-AI and Mr. Yoganand Sharma, CEO Sansui Infosys Pvt. Ltd. who motivated the students with their kind words and also shared their experience. In total, we had 29 teams and out of them three teams were declared as winners.

IDEATHON 2.0



- **Winners are:**
Team Members: Mr. Vatsal Babel, Mr. Ujjwal Gupta, Mr. Nikhil Vaya and Mr. Nishant Baheti
Title: Fake News Detection
- **1st Runner Up:**
Team Members: Mr. Anirudh Pokhriyal and Mr. Anant Upadhayay
Title: Cosmos
- **2nd Runner Up:**
Team Members: Ms. Tanushri Goyal, Ms. Surbhi Gupta, Mr. Sanchit Bhargava and Ms. Sakshi Jain
Title: Financial CRM



INDUCTION DAY FOR 6th & 8th SEM.



On 11th December, 2018, the department of Information Technology welcomed all the students of final and pre-final year students to 6th and 8th semester respectively. This induction day marked the starting of the semester and all the students were taught about Project based learning.

Project Based Learning is about learning content through real world problems or contexts, and students show their learning in the application stage. All the students were taught about the Project title and Seminar title and how we are going to focus some few next months working on them.

All the Faculty members of the department as well as the head of department guided the students about the areas of research for their projects. The faculty members individually told about their respective core areas and how everyone is going to work together for the next six months on project title and Seminar title. Also, Dr. Sunil Kumar Jangir, HOD of the department guided the students and focused on the importance of research.

INDUCTION DAY FOR 6th & 8th SEM.



The next six months are going to be project and seminar oriented and the department is going to provide a proper research environment to all the students so that they can learn and initiate new things on their own. The new cutting edge technologies are going to be very important in the next few years, so the department has take this step for all the students as well as faculties.

On 13th December, 2018, the staff members alongwith HOD sir planned a project based learning Seminar for the students of final and pre-final year. And on 15th of December'18, the department conducted a three-hour long seminar in association with EXACKT TECHFLEETERS on PROJECT ORIENTED LEARNING PROGRAM in which importance of various project and project based learning was discussed.



PROJECT BASED LEARNING

On 15th of December'18, the department of Information Technology conducted a three-hour long seminar in association with EXACKT TECHFLEETERS on PROJECT ORIENTED LEARNING PROGRAM in which importance of various project and project based learning was discussed.

Mr. Piyush Sanam, from Exackt Techfleeters who has a 5 year old experience in machine learning, IOT, artificial intelligence and many new technologies, conducted a very interactive seminar where he started off by taking three pro's into consideration which were Project, Prototype and Product. He cleared the misconception of many students about what a prototype is and explained that a prototype is an idea for many and a sample product for others.

He also explained that a project is basically a solution to a very general problem whereas a Product is the end result of the project.

He focussed on the importance of a project. How a project helps in the development of engineers throughout their engineering. Not only for the students who are thinking to enter the cooperate world but also for the students who are thinking to become entrepreneurs. He also talked about how students are running away from thinking innovative and are using Google for their project submission which ultimately doesn't make any sense and doesn't add to a student's personality.



PROJECT BASED LEARNING

A project is not as tough as rocket science but neither is everyone's job. A student must have an innovative mind and a creative mentality to begin a project with.

Since this curriculum doesn't provide methods for students to learn new technologies, IT department is planning to introduce new learning seminars so that students can work on the projects based on the technology they have interest in within their outreach. Technologies like Machine Learning, IOT and Artificial Intelligence are some technologies that students must be familiar with as of now. First a student must go through a particular technology by working on a project and then if interest persists he should study thoroughly.

Ms. Smriti Singh, later joined the seminar and talked about the importance of communication and soft skills. She talked about how a strong personality is an important aspect of an individual. If an individual is not able to express what's in his mind properly, then probably the idea gets wasted.

In the end, the seminar got winded up by asking students if they had any doubts about technologies or how can they pursue one.

MOOCs EXPERIENCE

This was an extremely useful and helpful course for me. I found the course to be very effective in walking through how to use Django. This was a great way for me to learn how modern developers can get stuff out there quickly and use the cloud for a server.

~ Himanshu Bagaria



FINANCIAL STATEMENT ANALYSIS :- This is a core Finance course on understanding and applying Financial statement analysis over on companies listed in IPOs. It can be an interesting course for one who want to invest in market using Fundamental Analysis.

~Aditya vyas



MOOCs EXPERIENCE



The course on Microsoft Virtual Academy helped me in strengthening the basics and learnt to write an efficient code in Python. It gave a strong command on the working of a program in Python. Good to start from this course, if you wish to learn Python.

~ Nishchay Jain



The course structure was excellent and planned well according to the curriculum. Lecturers like Andrew ng made it even easier to cope with the requisite maths and programming concepts by slowly adding complexity. Quizzes and coding assignments were placed at the end of each lecture sections for evaluation. Overall I had a very interactive experience with the online course.

In this course i made a project on "predicting house prices" using regression , "analysing sentiments" using classification, "retrieving documents " using clustering. In this i learned a lot about many regression technique like simple reg,multiple reg., assessing performance , ridge regression , feature selection and kernel regression .

~ Prithvi Raj Rathore



Student Coordinator



Ms. Neha Gupta
IV Year



Mr. Sourabh Agrawal
III year



Ms. Ritisha Kothari
III year



Ms. Shivangi Jain
II Year



Ms. Simran
III year



Mr. Kabir Swami
II Year



Mr. Darshan Vyas
II Year



Mr. Manan Bindra
II Year



Mr. Dheeraj Suthar
II Year

Teacher Coordinator



Mrs. Shikha Shrivastava
Assistant Professor
Department of Information Technology



Ms. Shweta Saxena
Assistant Professor
Department of Information Technology



Dr. Sunil Jangir
Head of Department
Department of Information Technology

