

Department of IT has always taken initiatives to enhance the technical skills of the students. In this series we are pleased to inform you that the department has formed a “Special Interest Group” (SIG) and “Organization Of Student Developer” (OSD). There are two SIGs- one for Python and the other one for Android Application development.

### **About the group :**

The SIG for Python is a group of students for the students. The motto of the group is to promote students to take up Python as their preferred programming language so that they can show their metal in competitive programming and in the placements as well.

#### **About Python :**

Python is a multi-paradigm, interpreted, high-level programming language for general purpose programming. Python is gaining popularity in the domain of Computer Science, thanks to its features like- easy to learn, open source, tons of libraries for almost any purpose etc. Python can be used as a scripting language also.

### **About the Mentor:**

The mentor for the SIG for Python will be Mr. Harshvardhan Binyala, a final year student of Dept. of IT. He did his internship from Indian Space Research Organisation (ISRO ) in Sentiment analysis of crowd sourced data. His areas of interest are Natural Language Processing and Sentiment Analysis. He is campus placed in Newgen Softwares. Newgen Software is a leading provider of Buisness Process Management (BPM), Enterprise Content Management (ECM), CCM, DMS, Workflow and Process Automation.

SIG GROUPS



Python



# Organization Of Student Developer

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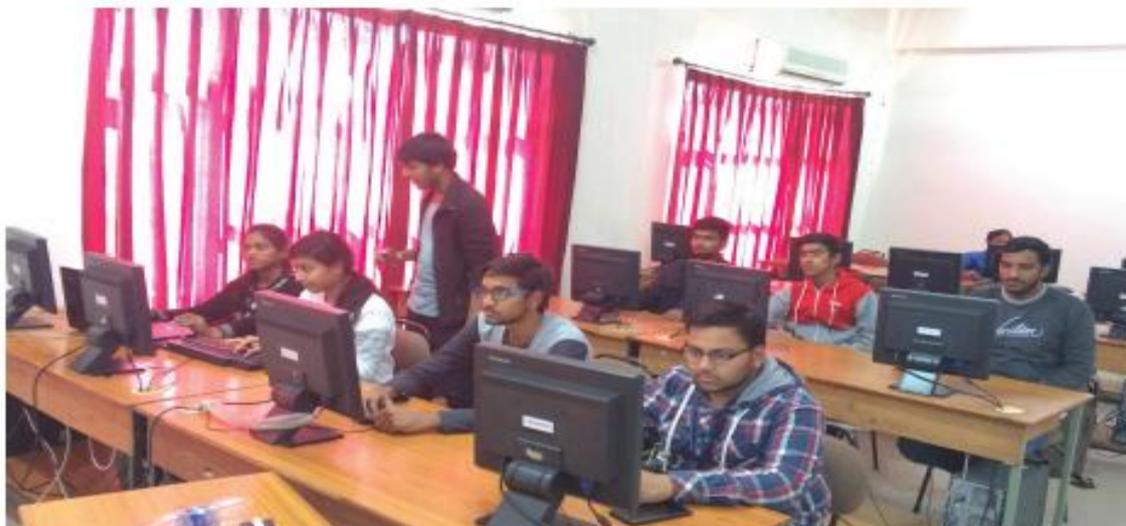


## **About the group:**

The aim of this OSD is to facilitate the development of their skill set while working on the project. The students enrolled in this program are able to form startups which solve a real-world problem or provide a stepping stone for these students to get into big companies like Google, Flipkart, etc.

## **About :**

Web Development- Web development is the segment of the software engineering that deals with creating application/ website that is accessible through HTTP protocol. The web development is majorly driven by two components mainly Frontend and backend API



## **About the Mentor :**

The mentor for the OSD will be Mr.Himanshu Dixit, a senior year student of Dept. of IT. He had previously been a Project Leader at Oppia, and Core Developer at Drupal. He is currently involved with New Delhi based startup as the co-founder.

# Android Application Development

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## **About the group:**

The aim of this SIG is to motivate the students to take up Application Developmental skills which will be fruitful in their placements and will add an extra skill in their resume.

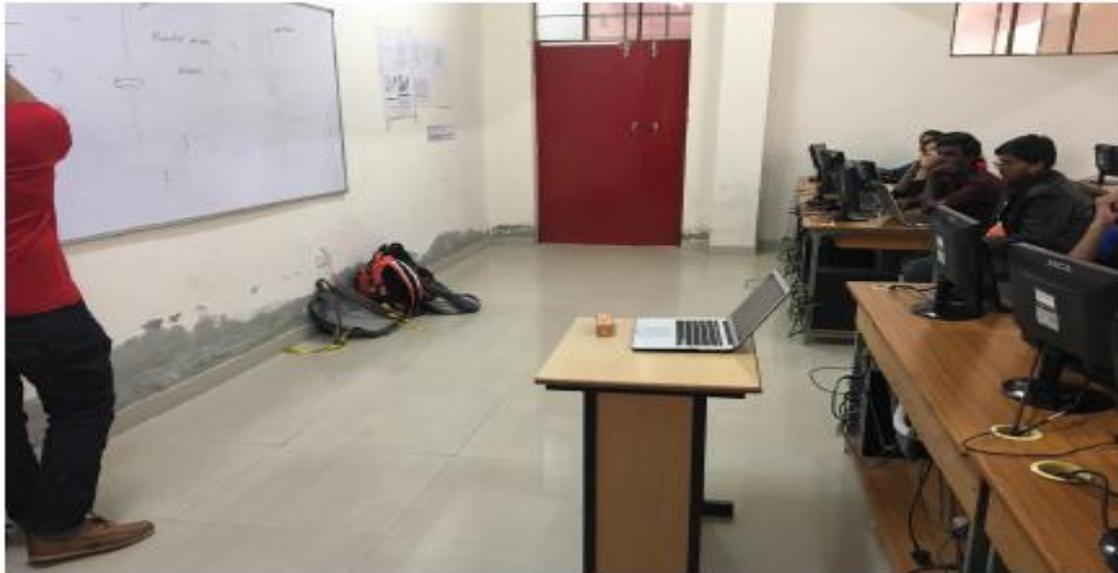
The motto of the group is to promote students to walk away with fully ready to build Android applications so that they can show their metal in several Hackathons and in the placements as well. About Android: Android is an open source project of the Open Handset Alliance that has revolutionised the user experience of a mobile device. With Android, it is a fact that mobile devices will have more user-friendly applications than ever before and putting the internet in the handsets of many, many people around the world.

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## Python





The biggest advantage is that the success of Android depends on the availability of unique and engaging user applications created by developers just like you. Practically anyone can contribute applications to the Android community, making it more possible for the world to experience your innovative ideas.

#### **About the Mentor :**

The mentor for the SIG for Android Application Development will be Mr. Lokesh Soni and Ms. Asmita Goswami, third year students of Dept. of IT. Mr. Lokesh Soni did his internship from CodeJocks Technologies and Cocoa Pay in Mobile Application Development. His areas of interests are Machine Learning, Data Science and Mobile application Development. Ms. Asmita Goswami did her internship from CodeJocks Technologies in Mobile Application Development. Her areas of interests are Machine Learning, Data Science and Mobile application Development.

#### **ACTIVITY ORGANISED BY PAC CLUB:**

##### **Major League Hacking (MLH)**

Major League Hacking (MLH) is the official student hackathon league. Each year, MLH powers over 200 weekend-long invention competitions that inspire innovation, cultivate communities and teach computer science skills to more than 65,000 students around the world. MLH is an engaged and passionate maker community, consisting of the next generation of technology leaders and entrepreneurs. MLH has been a community first, mission driven organization from the beginning. They measure success by the number of hackers they empower, and they want to keep it that way. That's why they made it official and became a Certified B Corporation in 2016. B Corps are for-profit enterprises that are legally required to consider the impact of their decisions on their community, not just their shareholders.

On 12th October 2019, Department of IT in collaboration with ACM Student Chapter, Team OSD and the MLH Team conducted a world-class workshop comprising of 70 students who were given hands-on over trending tech stack like AWS, Developer oriented tools like Slack & GitHub. Certificate of Participation was provided to each student present in the workshop. The workshop involved official webinar from the MLH global tutors and Mr. Ashutosh Singhal guided students over AWS. Final Year students Laveesh Gupta & Gourav Sharma guided the students on Slack & GitHub respectively. The workshop was initiated by the guest expertise speaker, Mr. Ashutosh Singhal who came up in front of students to give a real world perspective about AWS to the academic students. MLH provided world class material in form of interactive slideshows, videos and so many swags and stickers that made much more interest in students to be excited about the workshop.

Not only that, the students were directly connected with the MLH founder with an introductory note where we gave the message of growing the community and how MLH is bringing out the best to achieve the same purpose. One of the purpose to conduct this workshop was also to expose students to the other global opportunities provided by MLH such as the MLH Fellowship. MLH provides paid fellowships which are directly sponsored by tech giants like Facebook, GitHub etc. These fellowships are now rolled out on a quarterly basis and is open to all year academic students. We would like to reiterate on the fact that every student must apply to the MLH fellowships as it is one of the finest learning experience where you work under a team which consist of member from all around the globe. It gives you opportunities that are global and take your career to new heights in one go.

We carefully selected three topics AWS, GitHub and Slack. AWS is the leading cloud platform providing the finest cloud solutions and being used by countless IT companies. Having expertise in AWS exposes you to various decent level Cloud Practitioner opportunities like AWS Solutions Architect, Associate which pays you really well and makes you an established member of the IT industry. Also, guidance was given on AWS certifications and significance of these certifications. Apart from that, Version Control Systems are the core of the project management in any organization. It becomes extremely important that students learn about these VCS at their academic times and one such VCS would be the market leader GitHub. MLH provided interactive material for students to learn GitHub where students were given a complete hands-on, as to how to make new repository, how to add your source code from local machine to your public global GitHub repository. How do you make push and pull on your data, what are commits, upstreams, downstreams, pull requests, issues, contributors and so on. Well, VCS are something that is essential to your project management but what about increasing the efficiency and management of the project. To achieve the same purpose, we introduced a tool called Slack to the student where they were trained as to how you can create organizational groups, how you can classify your teams on Slack, and how you can organize business meetings through Slack. Not only that, Students was also told about how Slack enables organizations to create automated bots that help in automation of various products of an organization. All the students gave an excellent feedback on the learning front and demanded more such events in future.

The below link show: <https://photos.app.goo.gl/T6aTAXtosMVjrTvV6>

## LAN GAMING EVENTS

Department of Information Technology has taken an initiative to begin a club named as PAC, ***Programming and Algorithm Club***. All the core members of the club are selected through a special selection procedure. This club use to organize "***LAN Gaming Events***" time to time for students of all the branches. Under this league club organized a 7 hour event on 5th October 2016 between 8.30 am to 3.30 pm.

***"Demo Party"*** - was the First College level Lan gaming event organized by the PAC Club, this gaming event was introductory for all JECRCian's to a next level of amusement. Event had two types of gaming, racing (NFS Most Wanted) and combat fighting (Counter Strike) in which participation can be solo or in team. Affordable registration price of the event leded into bulk of registrations. Goodies like MI Watch were provided to the winners and rest of all the participants with the e-certificates.

There are number of coordinators from IT branch as well as from different branches. Event was held under the guidance of Ms Neha Mudgal and Mr Anuj Rai.

# Workshop on Ethical Hacking



**JECRC Foundation**

**Department Of  
Information Technology**

**Is  
Organising  
One Day Workshop  
Under**

**PAC - CLUB**

**On Ethical Hacking**

**Date :- 15th October 2016**

**Venue :- C Block Seminar Hall**

**JECRC  
UDML**  
College of Engineering

  
JAIPUR ENGINEERING COLLEGE  
AND RESEARCH CENTRE

 **JECRC™**  
UNIVERSITY  
BUILD YOUR WORLD

Ethical hacking refers to the act of locating weaknesses and vulnerabilities of computer and information systems by duplicating the intent and actions of malicious hackers.

The information world is moving towards Cloud where Virtualization and IT outsourcing are major trends. This transition has increased the level of threats and therefore the demand of ethical hackers. Since the advent of technology, security has been a major concern. In order to avail the benefits of cloud and virtualization without harming the security, companies need to go for ethical hackers. The major challenge that today's businesses face is the fast growing cyber world and the complexities of security requirements. The hacking tactics are evolving every day and only an expert professional can overcome this challenge. Ethical hackers are thus in high demand in today's business world. And as per the need of the world our department also want their students to be get updated so PAC Club of Department of Information Technology organized a workshop on 15<sup>th</sup> of October on Ethical Hacking. In this one day workshop students came to know about Ethical Hacking from "what" to little bit "how" as well. Along with this, they also came to know about the consequences, the scope and how to grab the opportunities of this field.

# JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER IT DEPARTMENT

## ORGANISATION OF STUDENT DEVELOPERS



### ❖ VISION

To enable the students to develop creative and logical approaches to coding environment and nurture them with the qualities of Self-Learning. To provide students with the latest trendings in Information Technology and also work on live projects while learning.

### ❖ MISSION AND MAIN THRUSTS

To develop appropriate skills in students so that they can work on industry level projects and make them “EARN-WHILE-LEARN”. To prepare the students with a modern approach and latest advancements that provides them a strong base to be an excellent asset with a competitive edge.

### ❖ WHY DID WE START THIS GROUP ?

Organization of Student Developers (OSD) started with a group of 10 students in Second Year under the guidance of Sunil Jangir Sir, where all members had a similar thought that while learning new skills, why not implement these regular learnings to form something productive. That's where the group started working on Web Projects at the same time while learning Web Development. Team Members divided their responsibilities and learnt various technology stacks in the field of Web Development. Each team member has done his/her own minor projects such as Portfolio Websites and Front-End Based Websites in the beginning.

## ❖ CURRENT PROGRESS OF OSD

- Keeping the vision and mission as prime focus, the core team (now in Third Year) have designed a strategy where the Second Year and First Year students are being trained to learn WEB DEVELOPMENT.
- Separate schedules have been made for First Year as well as Second Year and the students are given references to study and then complete some assignments given by Core Team Members. These assignments are checked and mentored by Core Team and then guided appropriately with the best approach.
- At present, there are 18 students from Second Year and 22 students in First Year which makes it a total of 40 students attending regular sessions and completing their assignments. As an outcome, we expect that the students working with OSD group will have sufficient skills to develop the design structure and Front End of any website and to enrich their skills, the OSD Group have some live projects planned up for them.
- From the core team, 7 of 10 members have already been offered an Internship in Web Development.
- As of now, students have successfully learnt HTML & CSS. The students have also completed 4 assignments based on Front End design.

## ❖ ACHIEVEMENTS OF OSD GROUP

- IT HACKATHON 2.0 WEBSITE : <http://jecrchackathon.in/ithackathon/>
- JECRC CONFERENCE WEBSITE : <http://www.jecrcconference.in/>
- .me Website of each core team member