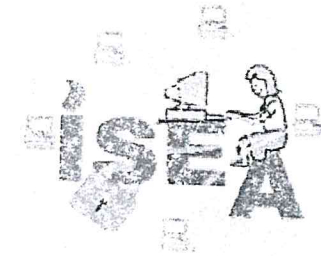


ISEA-Phase -II



Technical & Technical Progress Report as on
31.12.2018 31.12.2019

(PI Category) (PI-Category -I)

Chief Investigator: Prof R K Singh

IGDTUW IGDTUW


CHARU GUPTA
Assistant Prof IT

6294

BRA 754

Expertise Available for Research Collaborations

- **Faculty/ Research Scholar**
 - Prof R K Singh, CI
 - Dr A K Mohapatra, Co-CI
 - Ms Charu Gupta, Assistant Prof and PhD Scholar
 - Mr Narendra Mishra, PhD Scholar
- **Courseware developed**
 - Developed Hands on Training material on
 - Cyber Forensics (Disk, Mobile, Network)
 - Social Media Analytics
 - Vulnerability Assessment
 - IT Act
- **Participation in FDPs of ISRDCs/RCs**
 - Advanced System and Network Security: Attacks and Defenses @MNIT Jaipur
 - Web application security @IIT Chennai
 - Tools for Cyber Security @IIT Bombay
 - Workshop on Cryptography @IISc Bangalore



Areas of Collaboration

- **Cyber Forensics Investigation (Disk, Network, Mobile, Cloud and Malware)**
- **Predictive policing using Machine Learning and Artificial Intelligence**
- **Secure Software Development , Security Patterns and Security Testing and Risk Management**
- **Light weight cryptography for IoT**
- **Knowledge partner of Centre of Technology and Policing with Delhi Police and National Cyber Forensics Lab and CyPAD**

09/

Scientific Achievements (2016-2018)

S.No	Event	Duration and year	No of Participants
1.	Workshop on Cyber Security and Cyber Forensics	One week (11.06.2018 to 16.06.2018)	54
2.	Modular Course on Applied Computer Science With Secure Android Development	One week (29.05.2017 to 04.06.2017)	60
3.	Modular Course on Ethical hacking	Two week (05.06.2017 to 16.06.2017)	19
4.	Modular Course on Cyber Security And Cyber Crime Investigation	Two week (31.07.2017 to 11.08.2017)	30
5.	Workshop on "Ethical Hacking"	Two week (20.06. 16 to 30.06.2016)	17
6.	Workshop on "Secure Mobile Development"	Two week (30.03. 16 to 16.06.2016)	33
7.	Training and Certification on Ethical Hacking from EC Council	One week (28.03.2016 to 01.04.2016)	14
8.	International Conference on Demystifying Global Transformations in Technology and Management	29-30 th March 2016	26
9.	Seminar on Cyber Crime and Cyber Law	Two day	70
10	Workshop on Digital Forensics and Cyber Crime	Two day	35
11.	Workshop on "SenseNuts:IoT Stack and Platform"	One day	10
12.	Training Programme on "Computer Forensics"	One day	10

8/11

Scientific Achievements (2018-19)

S.No	Event	Duration and year	No of Participants
1.	Training programme on "Cyber Security and Digital Crime Investigation" for Delhi Police Personnel	One-week 23 rd -28 th December 2019.	25
2.	summer internship on Cyber Security: Attacks and Defense	Four week (03 rd June to 28 th June 2019)	57
3.	Conducted Training and Certification Exam for 25 Candidates including One faculty for <u>Certified Ethical Hacking CEHv10</u> .	One week (10 June to 15 th June 2019)	25
4.	Expert Lecture "Secure Software Development using Agile Methodology"	One day 10 th April , 2018	53

9/11

R&D/Consultancy/Training activities of industry/ Govt./defence/

- **One-week Training programme on “Cyber Security and Digital Crime Investigation” from 23rd-28th Decemeber 2019.**
 - Participants: Delhi Police Personnel
 - No of Participants : 25
 - Topics Covered : Cyber Security, Cyber (Disk and Mobile) Forensics, Cyber Warfare, Deep and Dark Web Investigations, IT Act and Social Media Analytics
- **Two week Training on Cyber Crime and Forensics Investigation**
 - Participants : Delhi Police Inspectors
 - No of Participants : 30
 - Topics Covered : Cyber Security, Cyber (Disk and Mobile) Forensics, IT Act and Social Media Analytics
- **Collaboration with Delhi Police in Development of Cyber Cell .**

09/