

ABOUT THE UNIVERSITY

Guru Jambheshwar University of Science and Technology started its journey on October 20, 1995 under Haryana State Legislative Act No. 17 of 1995 at Hisar, Haryana State of India to impart education on the frontiers of Technology, Pharmacy, Environmental Studies, Non-conventional Energy Sources, Mass Media and Management Studies

The University is recognized by the University Grants Commission (UGC) under Section 2(f) for recognition of degrees on 11.1.1996 and under section 12(B) of the UGC Act to be eligible for central assistance on 7.2.1997.

The University has been accredited 'A' Grade by National Assessment and Accreditation Council (NAAC), in 2002 as grade 'A' and has been re-accredited as grade 'A' with (CGPA 3.26), in 2009. Thereafter, the University has also been re-accredited third time as "A" Grade with (CGPA 3.28) by National Assessment and Accreditation Council (NAAC), Bangalore for a period of five years from 10.12.2014 to 09.12.2019.



HOW TO REACH

The university is well connected with road/rail. It is situated on NH-10. It is approximately 180 km from Delhi and 235 km from Chandigarh. It is about 6 km away from the Hisar railway station and 3 km from bus stand.

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering is a pioneering academic centre for education at undergraduate and post graduate level. The Department has grown many folds in academics and infra-structure since its inception. The Department has qualified and experienced faculty. Strong research groups exist in the area of Data Mining, Soft Computing, Ad-hoc Mobile Networks, Software Engineering and Image Processing. The Department is well equipped with all state-of-the-art equipments, Laboratories & workshops providing all necessary facilities to the students.



PROGRAMME CONVENER

Prof. Pradeep Kumar Bhatia
Chairperson
Dept. of Computer Science and Engineering

PROGRAMME COORDINATORS

Dr. Om Prakash Sangwan
sangwan0863@gmail.com, +919416105152
Dr. Sunil Kumar
nandalsunilk@gmail.com, +919416787135

FACULTY DEVELOPMENT PROGRAMME ON EMERGING TRENDS IN SOFT COMPUTING TECHNOLOGIES (ETSCT-16)

(05.09.2016-10.09.2016)

**SPONSORED BY WORLD BANK
UNDER TEQIP-II**



IMPORTANT DATES

Last date of Registration: 31st August 2016
Intimation of Acceptance: 1st September 2016

Organized by:
Department of Computer Science and Engineering
Guru Jambheshwar University of Science
and Technology Hisar-125001

WWW.GJUST.AC.IN

PROGRAMME DETAILS

This programme is aimed to bring together professionals, research scholars, faculty and experts on a single platform to have discussion on “**Emerging Trends in Soft Computing Technologies**” and also the dissemination of the latest information to the participants in order to enrich their knowledge in the emerging areas of Information & Communication Technology. One week Faculty Development Programme is fully sponsored by World Bank under TEQIP-II and the programme is designed such a way covering a wide range of topics of emerging research trends in the field of Soft Computing Technologies.

The various topics that are expected to be covered (not limited to) in this FDP are as follows:

- Artificial Neural Network
- Fuzzy Logic
- Evolutionary Algorithms
- Genetic Algorithm
- Computational Intelligence
- Neuro-Fuzzy Techniques
- Machine Learning
- Regression and Optimization
- 5G Mobile Communication Network
- Hands on Experience on Matlab Tool

RESOURCE PERSONS

Distinguished and Eminent persons from Industries/Research Organizations/Institutes of National Repute will be the resource persons for the programme ETSC- 16.

TARGET PARTICIPANTS

Research Scholars/Post Graduate Students.
Faculty and academics interested in cross disciplinary research in Artificial Neural Network, Neuro-Fuzzy, Genetic Algorithm and Intelligent Computing.

HOW TO APPLY

Interested participants should submit the completed registration form in a prescribed format along with the registration fee in the form of demand draft in favor of “**Registrar, Guru Jambheshwar University of Science & Technology**” payable at Hisar.

REGISTRATION FEES *

Faculty Member/Research Scholar : 1500.00 INR

* There is no registration fee for participants from the institutions under TEQIP-II.

Participants will be provided FDP kit, lunch and refreshment during the Programme. However, accommodation can be arranged in hostel/guest house on nominal payment basis subject to the availability.

No TA/DA will be paid to the participants. Limited numbers of seats are available; therefore, participants will be selected on first-come-first-serve basis.

The registration form complete in all respects, accompanied by demand draft of requisite amount should reach on or before **August 31, 2016**.

Registration form should be sent to:

FDP Coordinator, ETSC-16
Department of Computer Science & Engineering
Guru Jambheshwar University of Science and Technology, Hisar-125001
Haryana, India.

REGISTRATION FORM

FACULTY DEVELOPMENT PROGRAMME ON **EMERGING TRENDS IN SOFT COMPUTING TECHNOLOGIES (ETSCT-16)**

5th September – 10th September, 2016

**SPONSORED BY WORLD BANK
UNDER TEQIP-II**

1. Name (Mr/Ms) _____

2. Designation and Official address: _____

3. Email id: _____

4. Educational Qualification and Specialization: _____

5. Phone: _____ (O) _____ (R)

6. Professional Experience _____

7. Accommodation(subject to availability) (Yes/No) _____

Payment Details:

8. Demand Draft No. _____ Amount: _____

Bank: _____ Date: _____

Note: DD in favor of “**Registrar, Guru Jambheshwar University of Science & Technology**”, payable at Hisar.

Signature of the Applicant (with date)

Signature of the Head of Dept./Institute (with seal)

2nd National Seminar
on
**Design of 5G Mobile Network
using
Soft Computing Techniques**
Registration Form

Name: _____

Designation: _____

Department: _____

Institute: _____

Address for Correspondence:

Mobile Number: _____

Email: _____

Course/Regn. Number (if Research Scholar/ Student):

Registration Fee Details:

Amount: _____

DD No: _____

Date: _____

Bank: _____

Signature of Applicant: _____

CHIEF PATRON
Prof. Tankeshwar Kumar
Vice Chancellor, GJUST, Hisar

CO-PATRON
Dr Anil Kumar Pundir
Registrar, GJUST, Hisar

CONVENER
Prof. Rishi Pal Singh
Coordinator SAP & Chairperson
Deptt. of CSE, GJUST, Hisar

ORGANIZING SECRETARY
Prof. Om Parkash Sangwan

COORDINATOR
Dr. Jyoti Vashista
Deputy coordinator SAP

CO-COORDINATOR
Dr. Anju Sangwan
Mr. Manoj Yadav

TREASURER
Mr. Narender Kumar

ADVISORY COMMITTEE
Prof. Dharminder Kumar
Prof Yogesh Chaba
Prof. Saroj
Prof. Pradeep Kumar Bhatia
Prof. Dharmender Kumar

2nd National Seminar
on
**Design of 5G Mobile Network
using
Soft Computing Techniques**
(Sponsored by UGC under SAP)

March 28-29, 2019



IMPORTANT DATES

Last date for abstract submission: 15/03/2019

Notification for acceptance: 18/03/2019

Last date for registration: 20/03/2019

Organized by:
Department of Computer Science and Engineering
Guru Jambheshwar University of Science and
Technology, Hisar-125001

Website: www.gjust.ac.in

ABOUT THE UNIVERSITY

Guru Jambheshwar University of Science and Technology started its journey on October 20, 1995 under Haryana State Legislative Act No. 17 of 1995 at Hisar, Haryana State of India to impart education on the frontiers of Technology, Pharmacy, Environmental Studies, Non-conventional Energy Sources, Mass Media and Management Studies. The University is recognized by the University Grants Commission (UGC) under Section 2(f) for recognition of degrees on 11.1.1996 and under section 12(B) of the UGC Act to be eligible for central assistance on 7.2.1997.

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ABOUT THE SEMINAR

This Seminar is being organized by Dept. of Computer Science and Engineering with the sponsorship of UGC under SAP grant. Following technical session will be arranged in the seminar with an aim to promote research in the area of **Design of 5G Mobile Network using Soft Computing Techniques:**

Invited Talks.

Oral / Poster Paper Presentation.

Practical training on Network and Soft Computing Research Tools.

Interested Academician/Teachers/Persons from industry can submit Abstract (150-200 words) in areas of 5G Network and Soft Computing. Authors can also submit abstract in related areas.

RESOURCE PERSONS

Distinguished and Eminent persons from Industries/Research Organizations/Institutes of National Repute will be the resource persons.

REGISTRATION DETAILS

Academicians/Teachers/Persons from Industry:

Rs. 1000/-

Ph.D Research Scholar /Students: **Rs. 700**

Demand Draft should be drawn in favor of **“Registrar, Guru Jambheshwar University of Science & Technology”** payable at Hisar.

SUBMISSION

Submit your research abstract to:

nscsegju19@gmail.com

CONTACT

Prof. Om Parkash Sangwan,
Organizing Secretary
9811770509

Mr. Manoj Yadav,
Co-coordinator
9416807410

One Week
Faculty Development Program

On

**Emerging Trends in Machine
Learning Technologies**

(20.01.2020 - 25.01.2020)

Sponsored by

(World Bank TEQIP-III)

Prof. Saroj (Convener)

Dr. Jyoti (Co-ordinator)

Organized by :



Department of Computer Science & Engineering

**GURU JAMBHESHWAR UNIVERSITY
OF SCIENCE & TECHNOLOGY**

HISAR (HARYANA) 125001

(<http://www.gjust.ac.in>)



About GJUS&T

Guru Jambheshwar University of Science & Technology (GJUS&T) started its journey on October 20, 1995 under Haryana State Legislative Act No. 17 of 1995 at Hisar, Haryana State of India. It is named after Guru Jambheshwar Ji Maharaj, a saint environmentalist of 15th Century. The University aims at imparting education on the frontiers of Technology, Pharmacy, Environmental Studies, Non-conventional Energy Sources, Mass Media and Management Studies. Today the university is rock standing on 372 acres of lush green land with 17 Teaching Departments classified in 10 Faculties for coordinated teaching in particular and effective governance in general. The University has been accredited by NAAC as grade 'A' for the third time in a row in the year 2014. The University has been chosen as one of the few universities of the country for Global Initiative for Academic Network (GIAN). The University is celebrating Silver Jubilee this year.

About Department

The Department of Computer Science and Engineering is a pioneering academic centre for education at undergraduate and post graduate level. The Department has grown many folds in academics and infra-structure since its inception. It is duly approved by AICTE and also NBA accredited. Within a short span of its existence the department has equipped itself with most modern facilities required for achieving excellence. The department is guided by a team of qualified, dedicated and competent faculty members. A highly experienced and dedicated faculty imparts quality training to student for understanding the fundamentals and applying it to solve the challenging problems.

Course Objectives

Machine learning is a method of data analysis that automates analytical model building. It is a branch of artificial intelligence based on the idea that systems can learn from data, identify patterns and make decisions with minimal human intervention. The main objective of this course is to introduce the participants with the new trends in this area.

Correspondence Address

Dr. Jyoti (Co-ordinator)

Department of CSE, GJUST, Hisar.

E-mail : jyotivst@gmail.com

Ph : 9416780344

Mr. Sunil Kumar

Department of CSE, GJUST, Hisar.

E-mail : skvermacse@gmail.com

Ph : 9728573500

Registration Fee :

Rs. 1500/- per participant (for Non-TEQIP-III institutes only). There will be no registration fee for participants from the Institutions under TEQIP-III. The registration fee paid only through Demand Draft, drawn in favor of Registrar, GJUST, Hisar payable at Hisar.

TARGET AUDIENCE

Faculty Members, Research Scholars and PG students of Engineering Institutes, Technical Universities, Scientists & Industry Persons

ACCOMODATION

Food & Stay arrangement of participants will be at Faculty Guest House / Hostels as per availability. A request for the same is to be made in advance up to 10th January, 2020. No TA / DA will be given to the participants.

Important Dates

Last date of registration : 10th January, 2020

Note:

Scanned Copy of registration form should be sent to E-mail : skvermacse@gmail.com up to 13th January, 2020 and hard copy must be submitted on 15th January, 2020.

Organizing Committee

Prof. Rishipal Singh	Chairman
Prof. Ambrish Pandey	Co-ordinator, TEQIP
Prof. Saroj	Convener, FDP
Dr. Jyoti	Co-ordinator, FDP
Mr. Sunil Kumar	Assistant Professor CSE

REGISTRATION FORM
One Week
Faculty Development Program
on
Emerging Trends in Machine Learning Technologies
(20.01.2020 - 25.01.2020)
(Sponsored by World Bank TEQIP-III)
Registration Link : <https://tinyurl.com/FDPCSE>

Name

Designation

Institution

Academic Qualification

Specialization

Address

.....

.....

.....

E-mail

Demand Draft Details (Demand Draft, Drawn in Favour of Registrar,
GJUST, Hisar payable at Hisar.)

.....

.....

Accommodation Required (Yes/No)

Date :

Signature of Applicant

Signature of Sponsoring Authority with seal



Department of Computer Science and Engineering
Guru Jambheshwar University of Science and Technology
Hisar



WEBINAR

DATA SCIENCE TRANSFORMATION JOURNEY

HOW TO HAVE GOOD COMMAND OVER INDUSTRY RESOLUTION (IR) 4.0
TECHNOLOGIES

Registration Link:

<https://forms.gle/chgA6uKx1GHgwK5Z9>

Last Date of Registration:

28 August 2020 , 5:00 PM

WITH

Dr. S.B. Goyal
Director
Faculty of Information Technology
City University, Malaysia

Date: 29 August, 2020

Time: 10:00AM IST



Department of Computer Science & Engineering
Guru Jambheshwar University of Sc. & Technology,
Hisar

14th August

11:30AM

**Resource
Person**



Dr. Mayank Aggarwal
HOD Department of CSE,
Gurukul Kangri,
Vishwavidyalaya,
Haridwar

Registration Last Date: 13 Aug 2020
5:00 P.M.

Organizing

A LIVE WEBINAR

on

**Blockchain
Technology**

Registration Link

<https://forms.gle/oEtWnTwbpJ3doRG8>

Department of Computer Science & Engineering
Guru Jambheshwar University of Sc. & Technology, Hisar



Organizing
a Live
Webinar
on

Edge
Computing
&
IoT

AUG
06, 2020

11:00
A.M.

Speaker:



Dr. Satish Kumar
Senior Principal Scientist
and Professor AcSIR,
Department of Advanced
Materials and Sensors,
CSIO, Chandigarh

Registration Link :

Registration Last Date: 05 Aug 2020
5:00 P.M.

<https://forms.gle/RHpStEXwt8JKg8Sn8>

CSE, GJUST, Hisar



Department of Computer Science & Engineering
GURU JAMBHESHWAR UNIVERSITY OF SCIENCE AND TECHNOLOGY, HISAR

is Organizing

Live Webinar On

“Recent Advances in Machine Learning”

28th July, 2020 at 9:00 A.M.

Speaker :



Dr. Radhey Shyam

Data Scientist, R&D Rexroth Bosch,
Ph.D Clemson University,
South Carolina, USA

Link For Registration : <http://forms.gle/knk1euLi3GYQTJZ1A>



Department of Computer Science & Engineering
Guru Jambheshwar University of Science & Technology, Hisar

**Cordially Invites you to the
One Day Workshop on**

“Outcome Based Education Framework”

On 17th March, 2021 at 10:00AM

In the August Presence of



Chief Guest
Prof. Tankeshwar Kumar
Vice Chancellor
GJUS&T, Hisar



Guest of Honour
Dr. Avnesh Verma
Registrar
GJUS&T, Hisar



Speaker
Prof. Dharminder Kumar
Director PDUIC
GJUS&T, Hisar



Convener & Speaker
Prof. Saroj
Dean FET
GJUS&T, Hisar



Speaker
Prof. Yogesh Chaba
Dept. of CSE
GJUS&T, Hisar

Organisers



Prof. Dharmender Kumar
Coordinator &
Chairperson
Dept. of CSE



Prof. Jyoti
Organising Secretary
Dept. of CSE



Dr. Sunita Beniwal
Organising Secretary
Dept. of CSE

Registration : 09:15 AM to 10:00 AM
Targeted Audience : All Faculty Members
Venue : Seminar Hall-I, CRS Auditorium

कार्यक्रम गुजरात में आउटकम बेस्ड एजुकेशन फ्रेमवर्क विषय पर एक दिवसीय कार्यशाला आयोजित

किसी भी संस्थान के विजन व मिशन को पूरा करने के लिए ओबीई अति आवश्यक : वीसी टंकेश्वर कुमार

सिटी प्लस न्यूज, हिमरा। गुरु जम्भेश्वर विश्वविद्यालय एवं प्रौद्योगिकी विश्वविद्यालय के कुलपति प्रो. टंकेश्वर कुमार ने कहा है कि आउटकम बेस्ड एजुकेशन (ओबीई) समय की मांग है। किसी भी संस्थान के विजन व मिशन को पूरा करने के लिए ओबीई अति आवश्यक है। विजन और मिशन मूल्य आधारित होने चाहिए। प्रो. टंकेश्वर कुमार बुधवार को आउटकम बेस्ड एजुकेशन फ्रेमवर्क विषय पर आयोजित एक दिवसीय कार्यशाला के उद्घाटन समारोह को बतौर मुख्यातिथि सम्बोधित कर रहे थे। कुलसचिव डॉ. अवनीश वर्मा विशिष्ट अतिथि के रूप में उपस्थित रहे। कुलपति ने कहा कि मूल्यों में छह बिन्दु होने चाहिए, जिनमें राष्ट्रीयता,



हिमरा। गुरु जम्भेश्वर विश्वविद्यालय में आयोजित कार्यशाला में उपस्थित अतिथिगण एवं प्रतिभाग्य।

नियमितता, आदरभाव, पर्यावरण अनुकूलता, दूसरों से बेहतर कैसे बनें तथा विश्वसनीयता शामिल हैं। उन्होंने कहा कि नई शिक्षा नीति भी

आउटकम बेस्ड शिक्षा को बढ़ावा देने वाली है। भविष्य में इस दिशा में अच्छे परिणाम आएंगे। कुलसचिव डॉ. अवनीश वर्मा

ने कहा कि हमें यह तय करना होगा कि हमारी शिक्षा उद्देश्य आधारित हो तथा हमारे विद्यार्थी रोजगारपरक हों। विश्वविद्यालय

का सिलेबस उद्देश्यों और विजन को पूरा करने वाला हो। नई शिक्षा व्यवस्था में विद्यार्थी अधिक महत्वपूर्ण हैं। उन्होंने ओबीई को

निरन्तर सुधार करने की प्रक्रिया बताया। उन्होंने कहा कि हमारे विद्यार्थी और उनकी डिग्रियां वैश्विक स्तर को होनी चाहिए।



One Week
AICTE Sponsored
Online Faculty Development Program
on
“Information and Cyber Security”
from
27th September, 2021 to 02nd October, 2021

Chief Patron

Prof. B. R. Kamboj
Vice-Chancellor, GJUS&T, Hisar

Patrons

Prof. Avnesh Verma
Registrar, GJUS&T, Hisar

Prof. Saroj
Dean FET, GJUS&T, Hisar

University FDP Coordinator

Prof. Sandeep K. Arya
Department of ECE, GJUS&T, Hisar

Convenor

Prof. Dharmender Kumar
Chairperson, Department of CSE

Program Coordinators

Dr. Amandeep
Assistant Professor
Department of CSE
Email: am.noliya@gmail.com
Ph: 9467448484 (M)

Dr. Sunil Kumar
Assistant Professor
Department of CSE
Email: sunilkaushik27@gmail.com
Ph: 9729254300 (M)

Organized by:

Department of Computer Science & Engineering
Guru Jambheshwar University of Science & Technology, Hisar, Haryana-125001

About the University

Guru Jambheshwar University of Science and Technology, Hisar-125001, Haryana started its journey on October 20, 1995 under Haryana State Legislative Act No. 17 of 1995. The University has been recognized by the University Grants Commission (UGC) under Section 2(f) for recognition of degrees since 11.1.1996 and under section 12(B) of the UGC Act to be eligible for central assistance since 7.2.1997. The university aims to impart education on the frontiers of Engineering and Technology, Pharmacy, Environmental Studies, Non-conventional Energy Sources, Mass Media and Management Studies. Today the university is rock standing on 372 acres of lush green land with 23 Teaching Departments. The University at present offers 55 Regular Programmes on campus including B.Tech., M.Tech., B.Pharma., M.Pharma., B.Physiotherapy, M.Physiotherapy, M.Sc., M.B.A, M.Com and M.C.A. etc. with Ph.D. degree programme in all the Departments. The University is 'A' Grade accredited by National Assessment and Accreditation Council (NAAC), since 2002. The University has been ranked 94th among the Universities/ Institutes in India as per National Institute Ranking Framework (NIRF). It has also been ranked between 6-25 in ATAL Ranking of Institution of Innovation and Achievement (ARIIA) 2020 and in between 801-1000 in World University Ranking 2021 by Times Higher Education, UK. The university has also secured rank between 251-300 in the globally renowned Times Higher Education Young University Rankings 2021. The h-index (Scopus) of the university has gone upto 92 at present. For more detail please visit: <http://www.gjust.ac.in>



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About AICTE Scheme

A MOU was signed between AICTE and our esteemed university for conduct of joint training program for teachers and non-teaching staff of AICTE approved technical institutions affiliated with university. The main aim of this scheme is to help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas.

Faculty Development Program Objectives

The department of Computer Science and Engineering is going to organize faculty development program on **“Information and Cyber Security” from 27-09-2021 to 02-10-2021** through online mode. This course is designed to trained faculty members and research scholars in the field of Cyber Security. The main objective of the course is to discuss the current issues, challenges of Cyber Security and provide the possible solutions for the same. This course is fully sponsored by AICTE to trained faculty members/ research scholars.

Registration Form Link:

<https://forms.gle/LkhLaj9Hcmm7x4kZ7>

Last date of registration: 24th Sep., 2021

Registration Fee: There will be **No registration fee**

for attending the above faculty development program.

E-Certificate will be provided to those having 80% Attendance, 60% marks in the Online Test and have submitted feedback forms.

About GJUS&T

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About AICTE Scheme

To plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas.

About Department

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Important Dates

FDP duration: 27-09-2021 to 02-10-2021

Last date of registration: 24th Sep., 2021

Registration Fee: NIL/-

Registration Form Link:

<https://forms.gle/LkhLaj9Hcmm7x4kZ7>

TARGET AUDIENCE

Faculty Members, Research Scholars, PG students or any other from academic institutions, industries etc.

One week

Faculty Development Program (FDP)

on

"Information and Cyber Security"

from

27-09-2021 to 02-10-2021

through online mode

Chief Patron

Prof. B. R. Kamboj

Hon'ble Vice-Chancellor, GJUS&T, Hisar

Patrons

Dr. Avnesh Verma

Registrar,

GJUS&T, Hisar

Prof. Saroj

Dean, FET,

GJUS&T, Hisar

Convenor

Prof. Dharmender Kumar

Chairperson, Dept. of CSE

GJUS&T, Hisar

Organizing Committee

Mr. Amandeep,

Program Coordinator

Assistant Professor,

Department of CSE, GJUS&T, Hisar

Email: am.noliya@gmail.com

Ph: +919467448484 (M)

Dr. Sunil Kumar,

Program Coordinator

Assistant Professor,

Department of CSE, GJUS&T, Hisar

Email: sunilkaushik27@gmail.com

Ph: +919729254300 (M)



Guru Jambheshwar University of Science & Technology, Hisar

(Established by State Legislature Act 17 of 1995)

(A Haryana State Government University)

3 Times Accredited 'A' Grade by NAAC



Department of Computer Science & Engineering

is organizing

One week

Online Faculty Development Program (FDP)

on

“Information and Cyber Security”

September 27, 2021 - October 02, 2021

Sponsored by :

All India Council for Technical Education (AICTE), New Delhi

Inaugural Ceremony

Date: September 27, 2021

Day: Monday

Time: 10:00 AM



Prof. Baldev Raj Kamboj
(Chief Patron)
Vice Chancellor
GJUS&T and CCSHAU, Hisar



Sh. Rakesh Kumar Arya, IPS
(Chief Guest)
IGP/Hisar Range
Hisar

Convenor:

Prof. Dharmender Kumar, Chairperson, Deptt. of CSE

Coordinators:

Sh. Amandeep, Assistant Professor, Deptt. of CSE

Dr. Sunil Kumar, Assistant Professor, Deptt. of CSE

Online Zoom Meeting Joining Link:

[https:// https://zoom.us/j/99298034835?pwd=aXpFTzhQRWtKRXMwNHNBjd1UUhHQ09](https://zoom.us/j/99298034835?pwd=aXpFTzhQRWtKRXMwNHNBjd1UUhHQ09)

Meeting ID: 992 9803 4835

Passcode: 917726



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Department of Computer Science & Engineering

One Week AICTE Sponsored Online Faculty Development Program (FDP)

Topic: Information and Cyber Security

September 27, 2021 - October 02, 2021

FDP SCHEDULE

	10:00 AM to 11:30 AM	11:30 AM to 12:00 PM	12:00 PM to 1:30 PM	1:30 PM to 2:30 PM	2:30 PM to 4:00 PM
Day 1 (27 th September-2021)	10:00 AM to 10:30 AM Inaugural Function	10:30 AM to 12:00 AM Session -1 Challenges and Issues in Cyber Security in Current scenario Dr. Manju Khari, JNU, Delhi	Session -2 Cyber Security and Cryptographic Algorithms Dr Karan Singh, JNU, Delhi	LUNCH BREAK	Session -3 Web Attacks and Counter Measures with Handson Over BWAPP Dr. Gaurav Varshney IIT Jammu
Day 2 (28 th September-2021)	Session -4 Cloud Security Dr. Pilli Emmanuel MNIT, Jaipur		Session -5 Introduction to Public Key Cryptography Dr. Dibyendu Roy IIIT, Vadodara, Gujarat		Session -6 Web Attacks and Counter Measures with Handson Over BWAPP Dr. Gaurav Varshney IIT Jammu
Day 3 (29 th September-2021))	Session -7 Venerability Assessment While Work from Home Dr. Anoop Girdhar CEO- Founder, Sedulity Solutions & Technologies Cyber Crime Investigator		Session -8 Venerability Assessment While Work from Home Dr. Anoop Girdhar CEO- Founder, Sedulity Solutions & Technologies Cyber Crime Investigator		Session -9 802.11 Wireless Vulnerabilities, Concepts and Exploits Dr. Mayank Aggarwal IIT, Patna
Day 4 (30 th September-2021)	Session 10 Block Chain and Bit Coin Dr. Meenakshi IIT, Madras		Session -11 Facilitating Security & Trust with Block Chain Technologies Prof. Parvinder Singh DCRUST, Murthal (Sonapat)		Session -12 Block Chain fundamental for IOT Applications: Currents Trends and Challenges Prof. Neeraj Kumar TIET, Thapar
Day 5 (1 st October-2021)	Session -13 Coding Theory and its applications to Cryptography Prof. Sudhir Batra, DCRUST, Murthal (Sonapat)		Session -14 High-Risk Vulnerabilities in Web Applications & IT Security Audit Er. Amrendra Sharan NITTTR, Chandigarh		Session -15 Vulnerabilities Assessment and Penetration Testing (VAPT) using Open-Source Tools Er. Amrendra Sharan NITTTR, Chandigarh
Day 6 (2 nd October-2021)	Session -16 Security Issues in Android Environment Dr. Kamlesh Dutta NIT, Hamirpur		Session -17 New Education Policy, 2020 Col B Venkat Director, Faculty Development Cell, AICTE		2:30 PM to 3:45 PM Session -18 Security Issues in Wireless Sensor Networks Dr. T.P. Sharma, NIT Hamirpur
					3:45 PM to 4:00 PM Valediction Function & Test



Guru Jambheshwar University of Science & Technology, Hisar

Department of Computer Science & Engineering

One Week AICTE Sponsored Online Faculty Development Programme (FDP)



on

“Information and Cyber Security”

September 27, 2021 -October 02, 2021

A Brief Report

Department of Computer Science & Engineering, Guru Jambheshwar University of Science & Technology, Hisar has organized AICTE sponsored one-week online faculty development Programme (FDP) on “Information and Cyber Security” from 27th September to 2nd October, 2021. The FDP aims to enhance the vision of faculty members and research scholars by exposing them to recent developments that are taking place in cyber security. This FDP received an overwhelming response with registration of 286 participants from various states of India. FDP was free for all the participants. Eminent speakers from reputed and premier institutes & industries shared their knowledge and enlightened the participants with challenges in Cyber Security. The platform for online faculty development Programme (FDP) was Zoom Meeting. A total of 18 sessions, divided into theory and hands-on practical sessions, were held to acquaint the participants with various aspects of cyber security, ethical hacking and cyber-crime. The house was declared open for all the queries and doubts during technical sessions that were very well answered by experts with great enthusiasm and to the satisfactions of the academicians.

Inauguration

Date: 27. 09. 2021

FDP was inaugurated on 27th September, 2021 by Sh. Rakesh Kumar Arya, IPS, IGP/Hisar Range, Hisar as Chief Guest along with Prof. B. R. Kamboj, Hon'ble Vice Chancellor, GJUS&T, Hisar, Prof. Avnesh Verma, Registrar, GJUS&T, Hisar, Prof. Saroj, Dean, FET, Col B. Venkat, Director, Faculty Development Cell, AICTE, Prof. Sandeep Kumar Arya, University FDP Coordinator, Prof. Dharmender Kumar, Chairperson, CSE Department and Coordinators of the Faculty Development Programme. The Programme began with the University “KULGEET”.

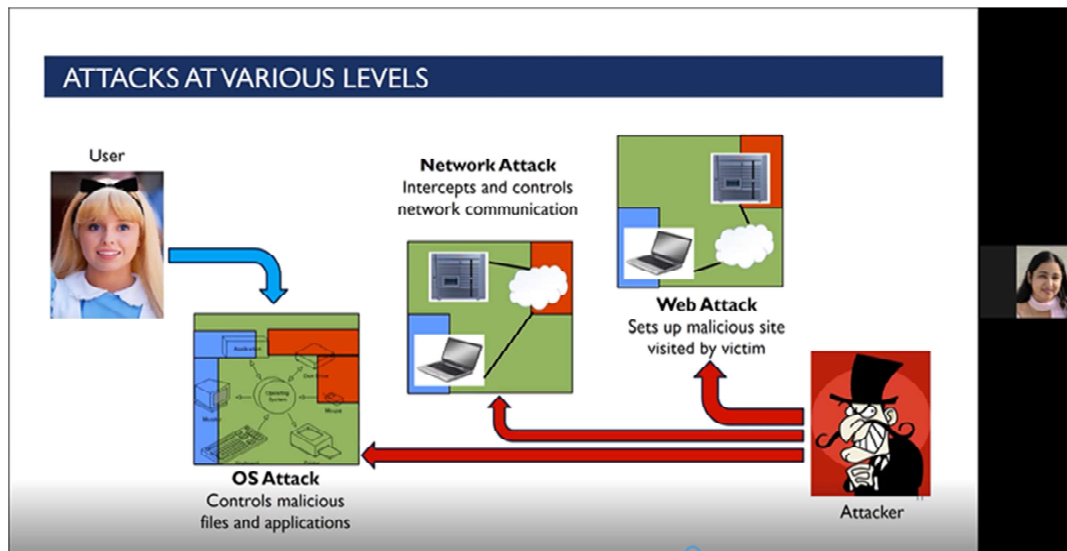
Prof. Dharmender Kumar, Chairperson and Convener of FDP, welcomed all the dignitaries and participants. In his welcome speech, he highlighted the importance and objectives of organizing this faculty development Programme and requested the participants to disseminate the knowledge gained in such type of programmes to their students. He added that in modern times, Cyber Security is used in every field, including Machine learning, Database, Communication, Artificial Intelligence, Data Analytics etc. He also gave a glimpse of the activities going on in the department.

Sh. Rakesh Kumar Arya, IPS, IGP/Hisar Range graced the Inaugural session as Chief Guest. He said “Cyberspace is one of the most critical domains in maintaining our nation's superiority. Cyber Security awareness is one of the most important aspects that everyone must handle in their day-to-day operations.”

In his inaugural speech, Hon'ble Vice Chancellor Prof. B. R. Kamboj thanked the AICTE for sponsoring One Week Online Faculty Development Programme (FDP) on “Information and Cyber Security”. He said “Cyber Crime is a way to Jail and Cyber Security is a way to Avail” and “Securing the information over cyber space have become one of the biggest challenges in current scenario”. He emphasized that quality among teachers can be built only through faculty development programmes.

In his inaugural speech, Worthy Registrar Prof. Avnesh Verma said “Confidentiality, integrity and availability, also known as the CIA triad, is a model for the development of security policies and solutions in the arena of information security.” Col B. Venkat, Director, Faculty Development Cell, AICTE, New Delhi assured that AICTE will provide full support to university to organize such types of value-added Programmes in future also. Prof. Saroj, Dean FET, explained the importance of Cyber Security, the skills required for the Cyber security profession, how to bridge the gap between campus and company placement, application of cyber security etc. Prof. Saroj also cleared some misconceptions regarding hacking.

Keynote speaker of this session, Dr. Manju Khari, Associate Professor, JNU, Delhi delivered an expert talk on topic “Challenges and Issues in Cyber Security”. Expert briefed about the Information Security, Issues in Cyber Security, Cyber Crimes, Cyber Laws and Cryptocurrency.



FDP Coordinator Dr. Amandeep and Dr. Sakshi Dhingra, Assistant Professor, CSE Department conducted the stage. At the end of the Inaugural, the session was concluded with a vote of thanks given by FDP Coordinator Dr. Sunil Kumar, Assistant Professor, CSE Department. The session came to an end with the National Anthem.

Day 1:

Date: 27. 09. 2021

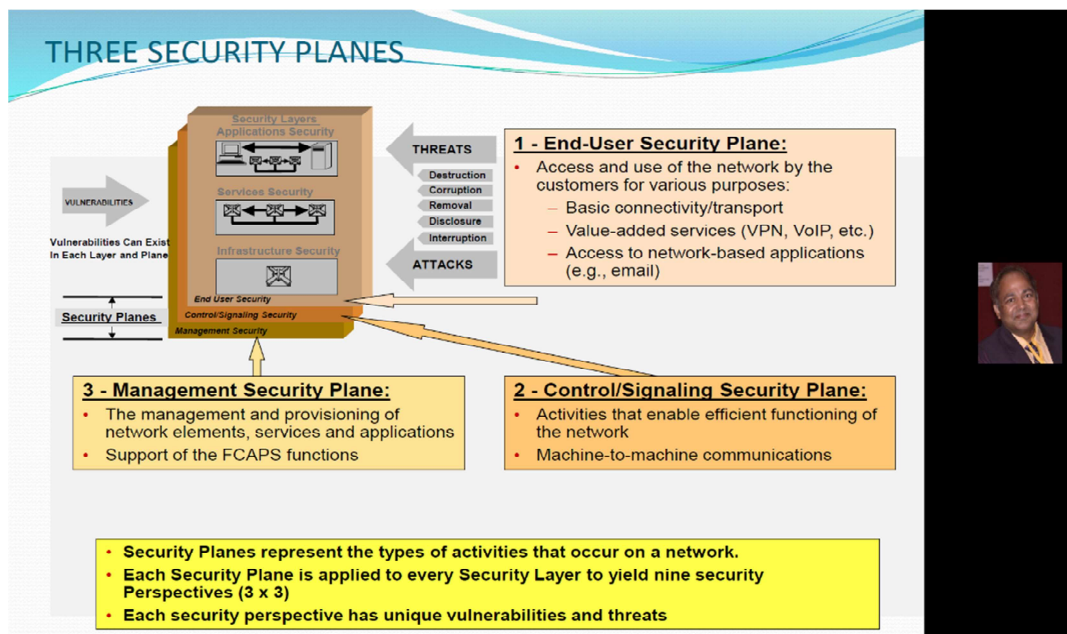
Session: 2nd

Topic: Cyber Security and Cryptographic Algorithms

Resource Person: Dr. Karan Singh, Assistant Professor, JNU, Delhi.

Dr. Singh covered the following topics:

- Security Dimensions
- Attack Techniques
- Security Layers and Security Layers to IP Networks
- Cryptography Algorithms.



He explained the implementation and functioning of cryptography algorithms in details to defend against various attack techniques.

Session: 3rd

Topic: Web Attacks and Counter Measures with Hand on Over BWAPP

Resource Person: Dr. Gaurav Varshney, Assistant Professor, IIT Jammu.

Dr. Varshney covered the following topics:

- Basic Concepts of Security Design
- Web Attacks
- HTTP Strict Transport Security
- Securing Cookies
- Content Security Policy
- Sub Resource Integrity

Web Security Policies: HTTP Strict Transport Security

- Strict Transport Security is a response header from the server and it informs the browser to always open the site over an HTTPS connection.
- One may say that website can connect over HTTP and redirect the user to HTTPS connections

```
HTTP/1.1 301 Moved Permanently
Server: Server
Date: Sun, 30 Aug 2020 14:24:58 GMT
Content-Type: text/html
Content-Length: 179
Connection: keep-alive
Location: https://amazon.in/
```

- Then what is the benefit of HSTS?
 - Can an attacker in between modify the HTTP response from the server and add 301 moved permanently
 - He can also add location of redirect as a Phishing site?
 - HSTS is for rescue in this situation. It does not let the browser initiate any connection over HTTP even if user wants it to be [mistakenly typing HTTP etc.]
- Browser only honor Strict-Transport-Security response header from a server if communicated over HTTPS

00:22:29

01:50

Day 2:

Date: 28. 09. 2021

Session: 1st

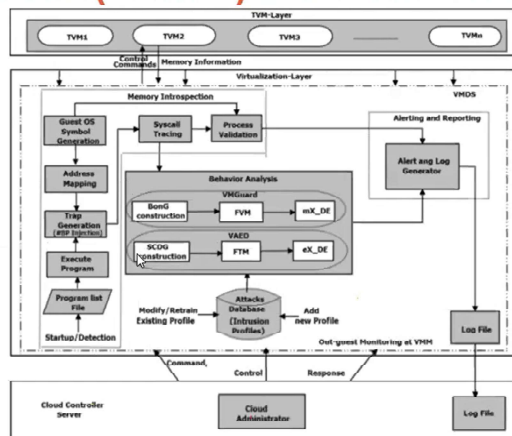
Topic: Cloud Security

Resource Person: Dr. Pilli Emmanuel, Associate Professor, MNIT, Jaipur

Dr. Emmanuel covered the following topics:

- Cloud Infrastructure
- Attacks on Cloud Environment / Virtual Networks / Virtual Machine
- Intrusion Detection Techniques in Cloud Environment
- Malicious System Call Sequence Detection (MSCSD) at VM Level
- Cloud Hedge —IDS on Cloud
- VM Introspection based Malware Detection (VMIMD)
- Malicious Network Packet Detection (MNPd) (MNPd)
- NvCloudIDS

VM Introspection based Malware Detection (VMIMD) – at VMM Level



First, he explained the how the vulnerabilities in Cloud Environment can be exploited by attackers to perform critical security attacks. Thereafter, he discussed various intrusion detection techniques in details in cloud environment as second line of defense against these attacks.

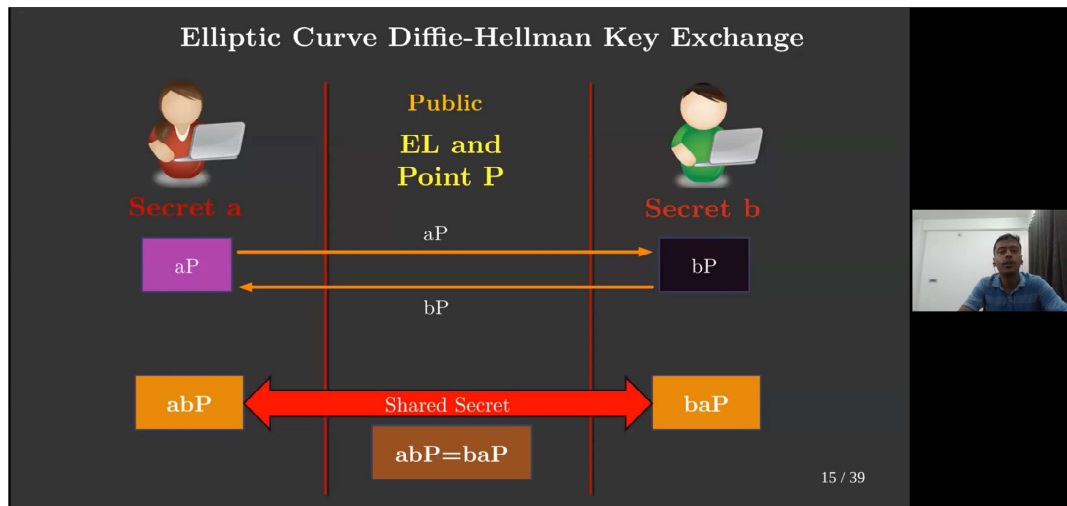
Session: 2nd

Topic: Public Key Cryptography

Resource Person: Dr. Dibyendu Roy, Assistant Professor, IIIT, Vadodara, Gujarat

Dr. Roy covered the following topics:

- Symmetric Key Cryptography
- Asymmetric Key Cryptography
- Diffie Hellman (DH) Key Exchange Algorithm
- RSA Cryptosystem
- Elliptic Curve Cryptography (ECC)
- Digital Signatures
- RSA Signature Scheme

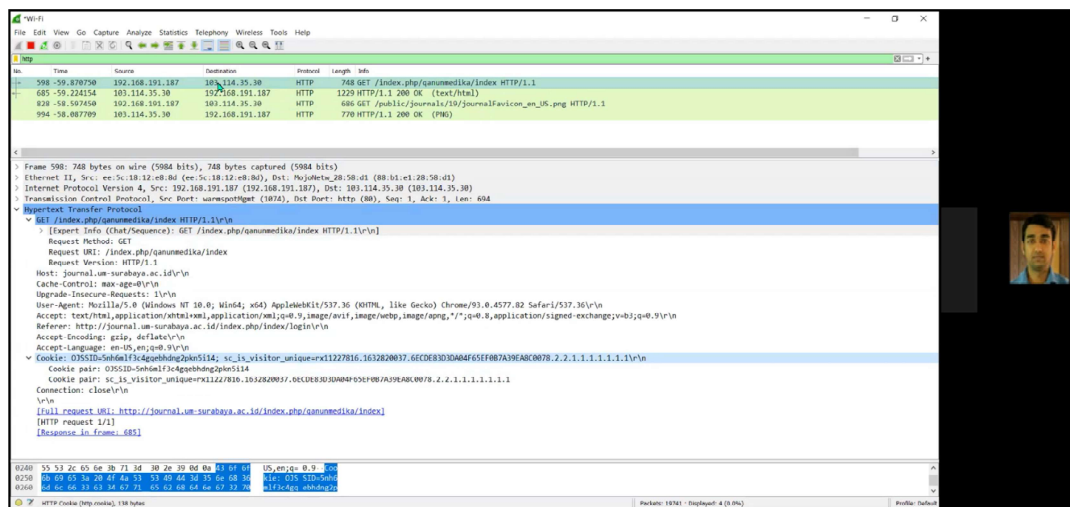


Session: 3rd

Topic: Hand on Experience on Web Attacks and Counter Measures with Hand on Over BWAPP

Resource Person: Dr. Gaurav Varshney, Assistant Professor, IIT Jammu.

Dr. Varshney extended his expert talk on Web Attacks and Counter Measures with Hand on experience Over BWAPP. First, he explained practically that how the attackers can exploit the vulnerabilities in web-based applications for their malicious intent. Thereafter, he explained practically how we can secure the web-based applications against these attacks.



Day 3:

Date: 29. 09. 2021

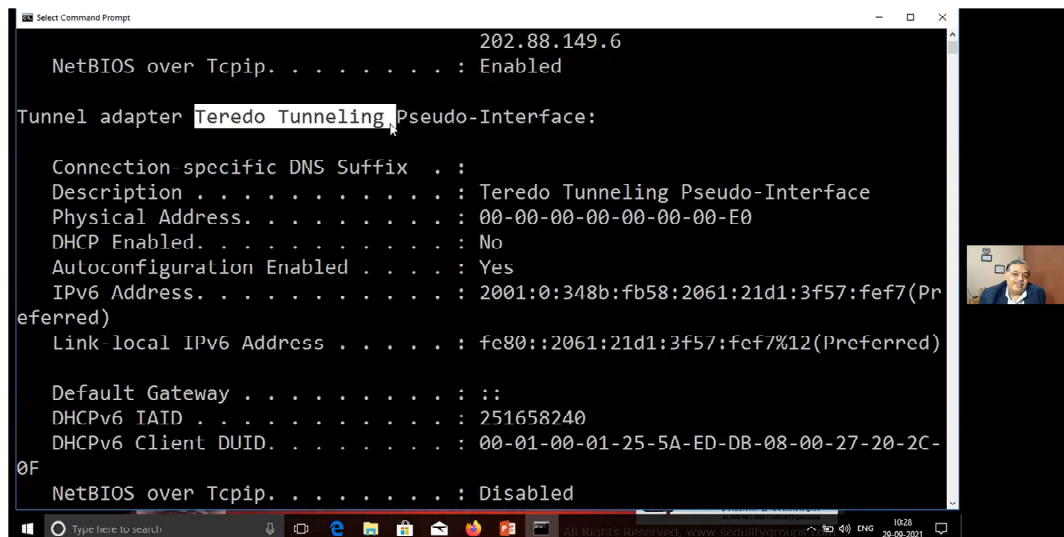
Session: 1st and 2nd

Topic: Vulnerability Assessment While Work from Home

Resource Person: Dr. Anoop Girdhar, CEO- Founder, Sedulity Solutions & Technologies and Cyber Crime Investigator

Dr. Girdhar covered the following topics with Hand on Experience:

- Virtual Private Network
- Vulnerabilities Assessment
- Vulnerabilities Methodology
- Challenges While Work from Home
- Common Vulnerabilities and Exposures (CVE)
- Hands on Window Auditing (WinAudit freeware)
- Hands on Vulnerability Scanning Tools
- OPENVAS
- Wireshark
- Burp Suite



```
Select Command Prompt

202.88.149.6

NetBIOS over Tcpip. . . . . : Enabled

Tunnel adapter Teredo Tunneling Pseudo-Interface:

    Connection specific DNS Suffix . . : 
    Description . . . . . : Teredo Tunneling Pseudo-Interface
    Physical Address. . . . . : 00-00-00-00-00-00-E0
    DHCP Enabled. . . . . : No
    Autoconfiguration Enabled . . . . : Yes
    IPv6 Address. . . . . : 2001:0:348b:fb58:2061:21d1:3f57:fef7(Preferred)
    Link local IPv6 Address . . . . : fe80::2061:21d1:3f57:fef7%12(Preferred)
    Default Gateway . . . . . : ::
    DHCPv6 TATD . . . . . : 251658240
    DHCPv6 Client DUID. . . . . : 00-01-00-01-25-5A-ED-DB-08-00-27-20-2C-0F
    NetBIOS over Tcpip. . . . . : Disabled
```



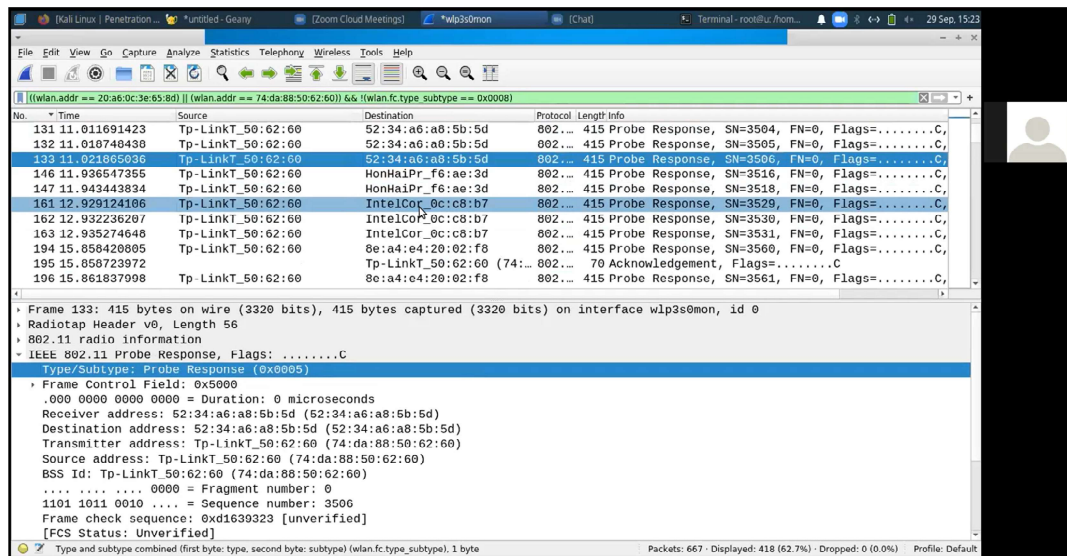
Session: 3rd

Topic: 802.11 Wireless Network Vulnerabilities/Threats and Solutions

Resource Person: Dr. Mayank Aggarwal, Assistant Professor, IIT, Patna.

The MAC layer of 802.11 protocol possesses inherent weakness making it vulnerable to various security attacks like

denial of service, deauthentication attack, flooding attacks, rogue access point (RAP) etc. Dr. Aggarwal has explained practically how the 802.11 wireless network vulnerabilities can be exploited as well as their solutions.



Day 4:

Date: 30. 09. 2021

Session: 1st

Topic: Blockchain and Bitcoin

Resource Person: Dr. Meenakshi Kansal, Postdoctoral Scholar, IIT, Madras

Dr. Kansal covered the following topics with mathematics behind them in order to bridge the gap between practice and theory:

- Blockchain
- Bitcoin Infrastructure
- Block Subsidy and Block Specification
- Cryptography Hash Function
- Digital Signature Algorithm

Cryptographic hash Function

$$H: \{0,1\}^* \rightarrow \{0,1\}^*$$

$$x \mapsto y = H(x)$$

Given y , it is hard to find $x \ni y = H(x)$

find $x_1, x_2 \ni H(x_1) = H(x_2)$

- Preimage resistant
- Collision resistant
- Avalanche effect $\rightarrow x = (a_1, a_2, \boxed{a_i}, a_n); x' = (a_1, a_2, \boxed{0}, a_n)$

$a_i \in \{0,1\}$
 $b_i \in \{0,1\}$
 $(b_1, b_2, \dots, b_m) = y = H(x)$
 (c_1, \dots, c_m)

In her lecture, she quoted that blockchain became the future of the cyber security and every company is investing a lot to preserve their data and securing them from threats.

Session: 2nd

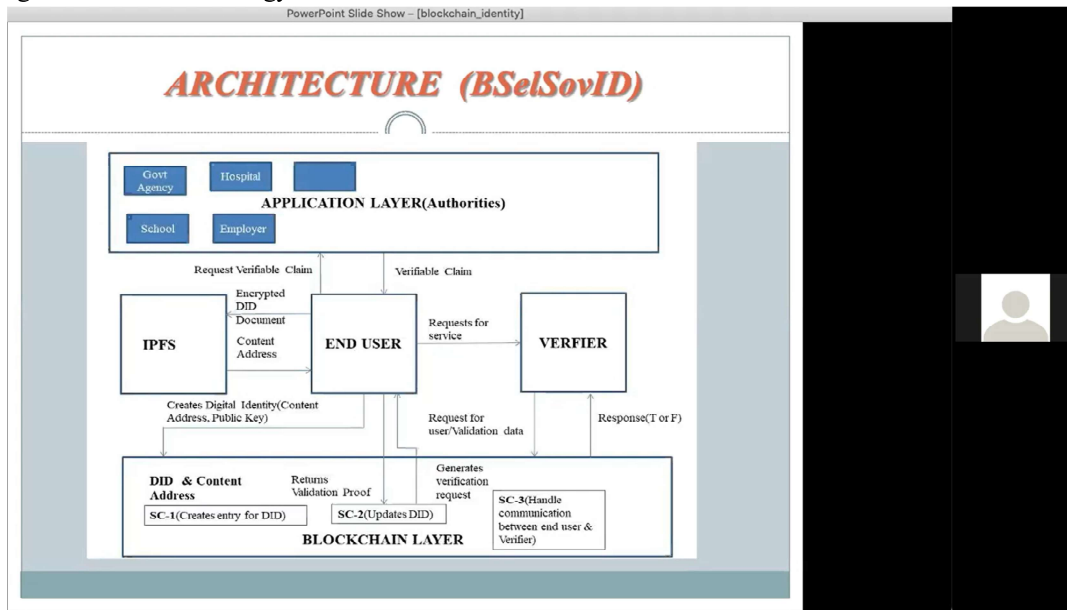
Topic: Facilitating Security & Trust with Block chain Technologies

Resource Person: Prof. Parvinder Singh, DCRUST, Murthal (Sonapat)

Prof. Singh covered the following topics:

- Blockchain Technology with Real World Uses Cases
- Consensus Algorithm
- Traditional IdM (Identity Management) Architecture
- Challenges with Traditional IdM (Identity Management) Architecture

- Design and Implementation of BSelfSovId- A Self Sovereign IdM (Identity Management) System using Blockchain Technology



Prof. Singh also discussed the research-oriented problems related to Blockchain Technology and IdM (Identity Management) Architecture. He also explained how Blockchain Technology assist effective Identity Management and its Challenges.

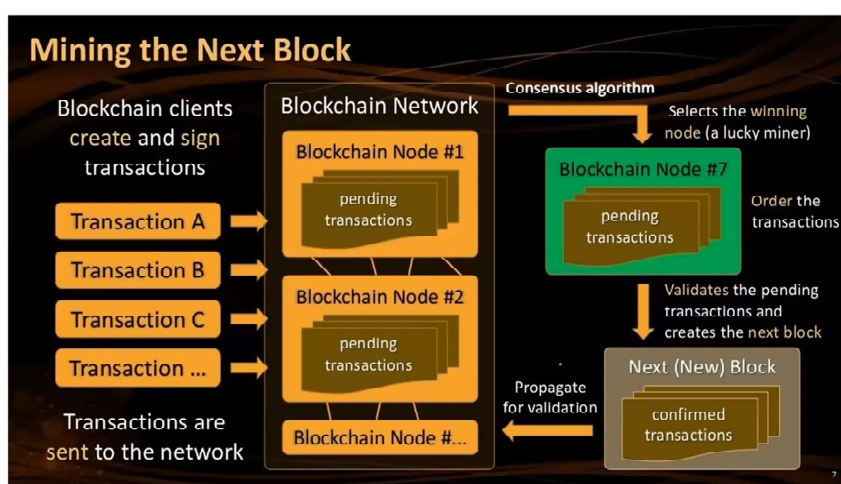
Session: 3rd

Topic: Blockchain Technology Fundamentals for IOT Applications

Resource Person: Prof. Neeraj Kumar, TIET (Deemed to be University), Thapar.

Prof. Kumar covered the following topics:

- Blockchain (Chain of Data Blocks) Technology
- Consensus Algorithm
- Cryptocurrencies and their Consensus
- Java Based Blockchains
- Proof-of-Work Cryptocurrencies
- Proof-of-Stake Cryptocurrencies
- PBFT (Practical Byzantine Fault Tolerance)



Day 5:

Date: 01. 10. 2021

Session: 1st

Topic: Applications of Error Correcting Codes

Resource Person: Prof. Sudhir Batra, DCRUST, Murthal (Sonapat)

Prof. Batra covered the following topics:

- Coding Theory
- Error Correcting Codes
- Hamming Distance
- Cyclic Codes
- IPP (Identifiable Parent's Property Codes)

IPP (Identifiable Parent's Property Codes) (Introduced by Hollman et al.)

$$\text{desc}(X) = \{a \in Q^n : a_i \in \{x_i : x \in X\}, 1 \leq i \leq n\}$$

If $a \in \text{desc}(X)$, then $x \in X$ is called a parent of a .

$$\text{desc}_w(C)$$
$$= \{a \in Q^n : a \in \text{desc}(X), X \subset C, |X| \leq w\}$$

An w - IPP code is a code with the property that for all words in $\text{desc}_w(C)$ at least one parent can be found, that is, $\bigcap_{a \in \text{desc}_w(C)} X \neq \emptyset$.

SUDHIR BATRA DEPARTMENT OF MATHEMATICS DCU, MURTHAL, SONAPAT

Prof. Batra also discussed the applications of Coding Theory to Cryptography.

Session: 2nd

Topic: High-Risk Vulnerabilities in Web Applications & IT Security Audit

Resource Person: Er. Amrendra Sharan, System Programmer, NITTTR, Chandigarh

He covered the following topics with Hand on Experience:

- Vulnerabilities in Web Applications
- Website Security
- Security Attacks
- SQL Injection
- Cross-Site Scripting (XSS) attacks

Need of Website Security

Website hacks more than 30%

Malware

Google blacklists

Phishing

Website Scanned 75%

Build Strong Reputation

Website will lose of its original Traffic 95%

Preventative action is Daunting & Challenging Task

Website Security Expertise

Time Consumes Expensive Affair

fppt.com

By taking real web applications examples, he demonstrated that how the hacker can exploit the vulnerabilities in web applications.

Session: 3rd

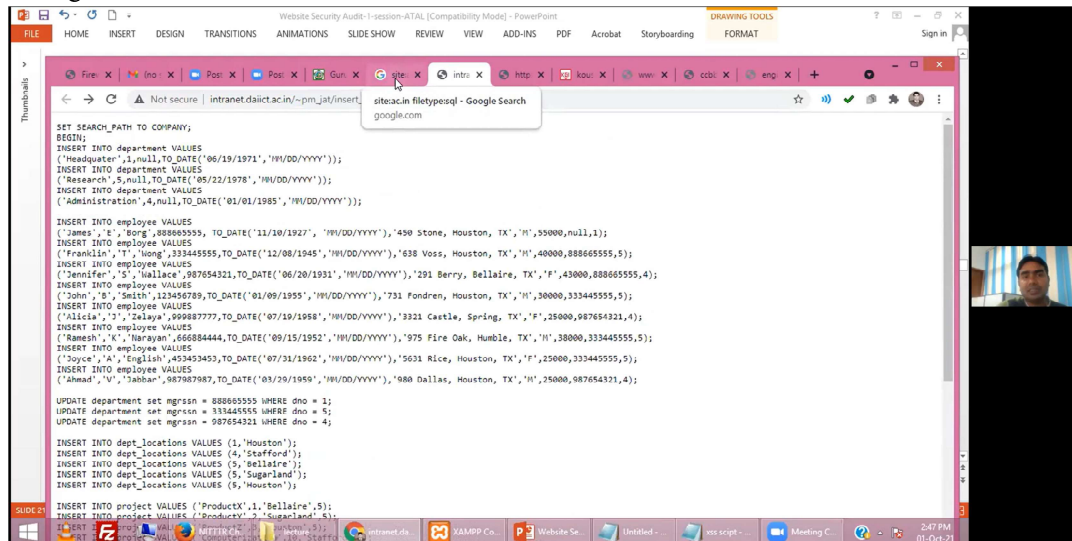
Topic: Vulnerabilities Assessment and Penetration Testing (VAPT) using Open-Source Tools

Resource Person: Er. Amrendra Sharan, System Programmer, NITTTR, Chandigarh.

Er. Amrendra Sharan extended his expert talk with hand on experience on Vulnerabilities Assessment and Penetration Testing (VAPT) using Open-Source Tools. He also covered the following topics with Hand on

Experience:

- Sensitive Data Exposure
- Malicious File Upload
- Security Misconfigurations
- Patching Vulnerabilities and Certification



Day 6:

Date: 02. 10. 2021

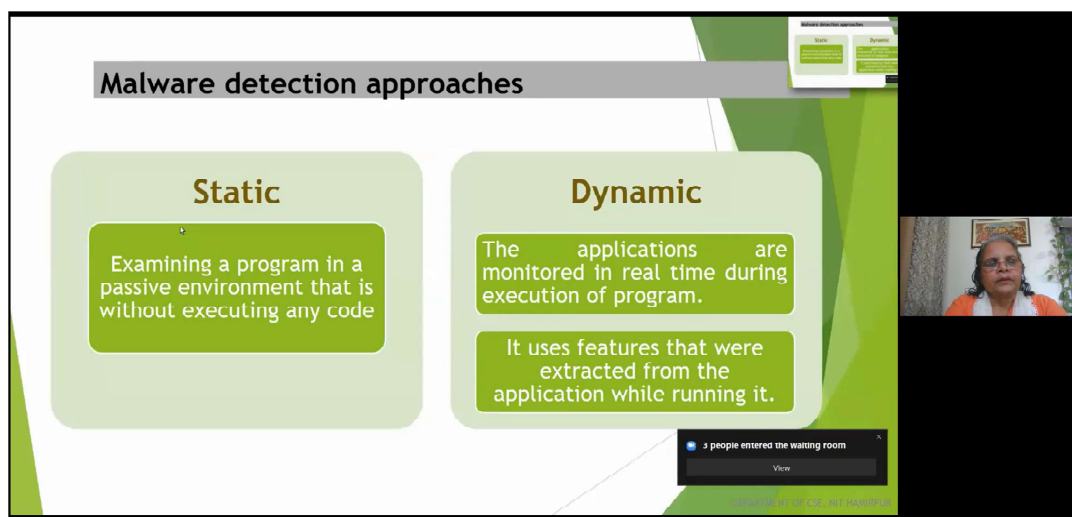
Session: 1st

Topic: Security Issues in Android Environment

Resource Person: Dr. Kamlesh Dutta, Associate Professor, NIT Hamirpur

Dr. Dutta covered the following topics:

- Android Environment
- Android Security and Threats
- Why Mobile Security is Important
- Android Security Model
- Malware Detection Approach-Static, Dynamic and Hybrid



“The emergence of the Android platform has also escalated the growth of cybercrime through the mobile platform. Its open-source operating system has made it a center of attraction for the attackers”, she said. She discussed various malware detection techniques with their procedures and limitations.

Session: 2nd

Topic: New Education Policy, 2020

Resource Person: Col B Venkat, Director, Faculty Development Cell, AICTE

He highlighted and discussed the importance of New Education Policy, 2020.



The New Education Policy (NEP) will give importance to students' practical knowledge instead just pushing them rote learning. It will help students to develop scientific temper from a young age. The NEP aims to make it easier to set up new quality of higher educational institutes which will be at par with the global standards. This will promote value-based education.

Session: 3rd

Topic: Security Issues in Wireless Sensor Networks


Resource Person: Dr. T.P. Sharma, Associate Professor, NIT Hamirpur.

Dr. Sharma covered the following topics:

- Wireless Sensor Networks (WSN)
- Security Issues in WSN
- Limitations of tradition security solutions to apply directly to secure WSN
- Denial of Service (DoS) Attack
- Node Capture
- Intrusion Detection
- Secure Data Aggregation

Robustness to Denial of Service

- Adversaries can simply broadcast a high-energy signal or violate the 802.11 MAC protocol to disrupt communication
- Solutions?
 - Spread spectrum communication, but cryptographically secure spread spectrum radios are not commercially available
 - Automated defense, by simply routing around the jammed portion of the network



Valedictory Ceremony

On the valedictory ceremony, Prof. Saroj, Dean, FET, GJUS&T, Hisar joined the session as a Chief Guest along with Prof. Sandeep Kumar Arya, University FDP Coordinator, Prof. Dharmender Kumar, Chairperson, CSE Department and Convener of FDP, and Dr. Amandeep and Dr. Sunil Kumar Coordinators of the FDP.

Prof. Saroj, Dean, FET, in his valedictory addressing, congratulated the Programme Convener Prof. Dharmender Kumar and Programme Coordinators Dr. Amandeep and Dr. Sunil Kumar for organizing the FDP in a successful manner. Further, Prof. Saroj appreciated the Teaching and Non-Teaching Staff Members of CSE Department for promoting such kind of development Programme for the faculties. She also motivated the researchers and faculties about how to keep continuous interest in the research.

The summary report of one-week FDP Programme was presented by FDP Coordinator Dr. Sunil Kumar, Assistant Professor, CSE Department. Thereafter, the participants shared their experiences about the FDP. The feedback of the participants was very positive and motivational for the organizers. They have learned a lot on Cyber Security in both theoretical and practical manner. They said that, this Programme was very useful and helpful for them in their research work and guiding the projects to the students.

Vote of Thanks was delivered by FDP Coordinator Dr. Amandeep, Assistant Professor, CSE Department, in which he has been paid his gratitude towards all the dignitaries who has spared their valuable time and share their expertise with the participants. He also thanked all the participants for actively interacting throughout the FDP for a week. He has given

thanks to sponsoring body of this FDP i.e. AICTE with these words, “We are highly thankful to the AICTE for providing financial assistance to organize this FDP in our university and hope we will find the support in future also for organizing such kind of activities.” An online test was conducted based on one week FDP contents for the participants. The Programme came to an end with the National Anthem.

Dr. Sunil Kumar
Coordinator

Dr. Amandeep
Coordinator

Prof. Dharmender Kumar
Chairperson CSE Deptt. & Convener



One Week
AICTE Sponsored
Online Faculty Development Program

on

“Artificial Intelligence & Machine Learning”

from

07th February, 2022 to 12th February, 2022

Chief Patron

Prof. B. R. Kamboj
Vice-Chancellor, GJUS&T, Hisar

Patrons

Prof. Avnesh Verma
Registrar, GJUS&T, Hisar

Prof. Saroj
Dean FET, GJUS&T, Hisar

University FDP Coordinator

Prof. Sandeep K. Arya
Department of ECE, GJUS&T, Hisar

Convenor

Prof. Dharmender Kumar
Chairperson, Department of CSE

Program Coordinator

Krishan Kumar Ranga
Assistant Professor, Department of CSE
Email: kkranga72@gmail.com
Ph: 9416482393 (M)

Organized by:

Department of Computer Science & Engineering
Guru Jambheshwar University of Science & Technology, Hisar, Haryana-125001

About the University

Guru Jambheshwar University of Science and Technology, Hisar-125001, Haryana started its journey on October 20, 1995 under Haryana State Legislative Act No. 17 of 1995. The University has been recognized by the University Grants Commission (UGC) under Section 2(f) for recognition of degrees since 11.1.1996 and under section 12(B) of the UGC Act to be eligible for central assistance since 7.2.1997. The university aims to impart education on the frontiers of Engineering and Technology, Pharmacy, Environmental Studies, Non-conventional Energy Sources, Mass Media and Management Studies. Today the university is rock standing on 372 acres of lush green land with 23 Teaching Departments. The University at present offers 55 Regular Programmes on campus including B.Tech., M.Tech., B.Pharma., M.Pharma., B.Physiotherapy, M.Physiotherapy, M.Sc., M.B.A, M.Com and M.C.A. etc. with Ph.D. degree programme in all the Departments. The University is 'A' Grade accredited by National Assessment and Accreditation Council (NAAC), since 2002. The University has been ranked 94th among the Universities/ Institutes in India as per National Institute Ranking Framework (NIRF). It has also been ranked between 6-25 in ATAL Ranking of Institution of Innovation and Achievement (ARIIA) 2020 and in between 801-1000 in World University Ranking 2021 by Times Higher Education, UK. The university has also secured rank between 251-300 in the globally renowned Times Higher Education Young University Rankings 2021. The h-index (Scopus) of the university has gone upto 92 at present. For more detail please visit: <http://www.gjust.ac.in>



About the Department

The Department of Computer Science and Engineering is a pioneering academic centre for education at undergraduate and post graduate level.

The department has grown many folds in academics and infra-structure since its inception. It is duly approved by AICTE and also NBA accredited. Within a short span of its existence the department has equipped itself with most modern facilities required for achieving excellence. The department is guided by a team of qualified, dedicated and competent faculty members. A highly experienced and dedicated faculty imparts quality training to student for understanding the fundamentals and applying it to solve the challenging problems.

About AICTE Scheme

A MOU was signed between AICTE and our esteemed university for conduct of joint training program for teachers and non-teaching staff of AICTE approved technical institutions affiliated with university. The main aim of this scheme is to help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas.

Faculty Development Program Objectives

The department of Computer Science and Engineering is going to organize One week Faculty Development Program (FDP) on "Artificial Intelligence & Machine Learning" from 07.02.2022 to 12.02.2022 through online mode. This course is designed to trained faculty members and research scholars in the field of Artificial Intelligence & Machine Learning. The main objective of this course is to make the participants familiar with Artificial Intelligence & Machine Learning techniques. This course is fully sponsored by AICTE.

Registration Form Link:

<https://forms.gle/8tUnh8hGsmpSvNmv7>

Last date of registration: **31st January, 2022**

Registration Fee: There will be **No registration fee** for attending the above faculty development program.

E-Certificate will be provided to those having 80% Attendance, 60% marks in the Online Test and have submitted feedback forms.



Guru Jambheshwar University of Science & Technology, Hisar

(Established by State Legislature Act 17 of 1995)

(A Haryana State Government University)

3 Times Accredited 'A' Grade by NAAC



Department of Computer Science & Engineering

**Cordially Invite You to the Inaugural Ceremony of
AICTE Sponsored Online Faculty Development Program (FDP) on**

“Artificial Intelligence & Machine Learning ”

February 07, 2022–February 12, 2022

Sponsored by:

All India Council for Technical Education (AICTE), New Delhi

Inaugural Ceremony

Date: February 07, 2022

Day: Monday

Time: 10:00AM



Chief Guest
Prof. B. R. Kamboj
Vice Chancellor
GJUS&T and CCSHAU, Hisar



Guest of Honor
Prof. Avnesh Verma
Registrar, GJUS&T, Hisar



Guest of Honor
Col. B. Venkat
Director- FDP, AICTE

Prof. Dharmender Kumar
Chairperson-CSE

Krishan Kumar Ranga
Program Coordinator



Guru Jambheshwar University of Science & Technology, Hisar

(Established by State Legislature Act 17 of 1995)

(A Haryana State Government University)

3 Times Accredited 'A' Grade by NAAC

Department of Computer Science & Engineering

One Week AICTE Sponsored Online Faculty Development Program (FDP)

Topic: Artificial Intelligence & Machine Learning

FDP SCHEDULE (February 07, 2022 - February 12, 2022)



	10:00 AM to 11:30 AM	11:30 AM to 12:00 PM	12:00 PM to 1:30 PM	1:30 PM to 2:30 PM	2:30 PM to 4:00 PM
Day 1 (7 th February-2022)	10:00 AM to 10:30 AM	10:30 AM to 12:00 PM	Session -2 Er. Ram Dayal Goyal Topic: “Realizing True Benefits of Artificial Intelligence with Interdisciplinary Collaboration”	LUNCH BREAK	Session -3 Prof. Maitreyee Dutta NITTTR, Chandigarh Topic: “Computational intelligence”
	Inaugural Function Prof. B. R. Kamboj Hon’ble Vice-Chancellor, GJUS&T, Hisar	Session -1 Er. Ram Dayal Goyal Founder & CEO RNS Labs Pvt. Ltd, Bangalore Topic: “Artificial Intelligence - A Choice OR A Need”			
Day 2 (8 th February-2022)	Session -4 Dr. Amit Doegar, Associate Professor, NITTTR, CHD Topic “Essential of Python for Machine Learning & Implementation of Machine Learning Techniques”		Session -5 Dr. H.K. Sardana CSIO, Chandigarh Topic : “Knowledge based learning in medical imaging applications”		Session -6 Dr. Urvashi Nag CSIR, Chd Topic: “Classification using Supervised and Unsupervised Machine Learning”
Day 3 (9 th February-2022))	Session -7 Er. Gagan Deep, Director, Rozy Computech Services Topic: “Parallel Procession and Data Scalability in ML using Dask Library”		Session -8 Upendra Kumar Tiwari Data Scientist Synergistic CompuSoft Pvt. Ltd. Topic: “Web Scraping and Sentiment analysis of any E-com site like Amazon”		Session -9 Dr. Gautam Pal Tripura Institute of Technology, Agartala, Tripura. Topic: “Basics of Machine Learning and KNN Algorithm”
Day 4 (10 th February-2022)	Session 10 Dr. GAURAV KUMAR, Director, Magma Research and Consultancy Services Topic: “Implementation of Pre-Trained Deep Learning Models and Artificial Intelligence”		Session -11 Prof. J.C. Bansal, SAU Delhi Topic: “Swarm Intelligence and algorithms”		Session -12 Dr. Pardeep Singh NIT, Hamirpur Topic: “Natural Language Processing: Issues and Challenges”
Day 5 (11 th February-2022)	Session -13 Prof. Ajay Ranga NLU, Shimla Topic: “Legal Prevention and Cure for the infringement of right to privacy by Artificial intelligence- issues, challenges and implementation.”		Session -14 Dr. Aparna CSIO, Chd Topic : ““Introduction to Basics of Convolutional Neural Networks and Concepts of Transfer Learning”		Session -15 Col. B. Vanket AICTE, Expert Topic: “ NEP-2020”
Day 6 (12 th February-2022)	Session -16 Dr. Mohammad Ahsan Chishti Central University of Kashmir. Topic: “Intellectual Property Rights - Patents with reference to Artificial Intelligence		Session -17 Dr. Kamlesh Dutta NIT, Hamirpur Topic: “ NLP using Deep Learning”		2:30 PM to 3:45 PM
					Session -18 Dr Vikram Goyal IIIT, Delhi Topic: “ Artificial Intelligence in Education”

TEA BREAK

Test Timing: 4:00 PM to 5:00 PM on 12th February-2022

Valediction
Function

Date 28-09-2021

जीजेयू : ऑनलाइन फैकल्टी डिवेलपमेंट प्रोग्राम शुरू किया

हिसार। साइबर अपराध दिनों-दिन बढ़ रहे हैं। सावधान रहकर हम इन अपराधों से बच सकते हैं। वर्तमान समय में डाटा स्रोत आसानी से उपलब्ध हैं। साइबर अपराधी इन्हीं का फायदा उठाकर अपराध करते हैं। यह बातें मुख्यातिथि आईजी राकेश आर्य ने जीजेयू के कम्प्यूटर साइंस एंड इंजीनियरिंग विभाग के द्वारा सूचना एवं साइबर अपराध विषय पर शुरू हुए ऑनलाइन फैकल्टी डिवेलपमेंट प्रोग्राम के उद्घाटन समारोह के दौरान बताई। उन्होंने बताया कि भारत सरकार ने इस अपराध को रोकने के लिए एक पोर्टल www.cybercrime.gov.in आरंभ किया है। इस पोर्टल पर जाकर साइबर अपराध के बारे में अपनी शिकायत दर्ज करवा सकते हैं। वहीं वीसी बलदेव राज काम्बोज ने बताया कि साइबर सुरक्षा आधुनिक युग की सबसे बड़ी चुनौती है।

FACULTY DEVELOPMENT PROGRAMME

Hisar: A six-day faculty development programme (FDP) on the topic "Information and cyber security" sponsored by the All-India Council for Technical Education (AICTE) was organised by the department of computer science & engineering, Guru Jambheshwar University of Science and Technology, Hisar on Tuesday. Rakesh Kumar Arya, IGP, Hisar Range was the chief guest of the inaugural session. As many as 132 participants across the country are participating in this FDP, where 16 eminent speakers from diverse backgrounds and industry will deliver their lectures. A total of 18 sessions divided into theory and hands-on practical sessions will be held to acquaint the participants with various aspects of cyber security, ethical hacking and cyber crime.

Participation & Winner in Smart India Hackathon'19 (#SIH19) Under the scheme of Digital India, AICTE, the Govt. of India organized an event Smart India Hackathon 2019 (SIH'19) on 1st to 3rd March-19 at different nodal centers. More than 2 lakh students participated in this event.



Organizers



SMART INDIA
HACKATHON
2019

Ministry of Ayush

Bug2Debug



Guru Jambheshwar University
of Science and Technology
Hisar - 125001

Partners



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वीसी बोले- विभागीय स्तर पर नए आइडियाज को और विकसित करने के लिए योजना तैयार की जाएगी

जीजेयू के मोबाइल एप को राष्ट्र स्तर पर मिला प्रथम पुरस्कार

अमर उजाला ब्यूरो

हिसार। गुरु जंभेश्वर विज्ञान एवं प्रौद्योगिकी विश्वविद्यालय के विद्यार्थियों द्वारा तैयार की गई मोबाइल एप्लीकेशन को राष्ट्र स्तर पर प्रथम पुरस्कार से नवाजा गया है। विश्वविद्यालय की टीम को यह पुरस्कार राष्ट्रीय स्तर के स्मार्ट इंडिया हेकाथोन-2019 की आयुष मंत्रालय श्रेणी में मिला है। प्रतियोगिता का आयोजन प्राणवीर सिंह इंस्टीट्यूट ऑफ टेक्नोलॉजी कानपुर में किया गया था। टीम के विश्वविद्यालय में पहुंचने पर कुलपति प्रो. टंकेश्वर कुमार ने टीम का स्वागत किया व बधाई दी।

उन्होंने कहा कि विद्यार्थियों के सृजनात्मक आइडिया ने विश्वविद्यालय को गौरवांविता किया है। विभागीय स्तर पर नए आइडियाज को और अधिक विकसित करने के लिए योजना तैयार की जाएगी। कुलपति ने टीम के प्रत्येक विद्यार्थी को 1100 रुपये नकद पुरस्कार देने की भी घोषणा की। इस अवसर पर विश्वविद्यालय



पुरस्कार विजेता जीजेयू की टीम को सम्मानित करते कुलपति प्रो. टंकेश्वर कुमार।

दो लाख से अधिक विद्यार्थियों ने लिया भाग

प्रधानमंत्री नरेंद्र मोदी द्वारा दिए गए डिजिटल इंडिया अभियान को मूर्तरूप देने के उद्देश्य से होने वाली इस प्रतियोगिता का आयोजन अखिल भारतीय तकनीकी शिक्षा परिषद तथा मानव संसाधन विकास मंत्रालय के सौजन्य से किया गया। इस प्रतियोगिता को देशभर के 48 नोडल केंद्रों में आयोजित किया गया तथा इसमें दो हजार शिक्षण संस्थानों के दो लाख से ज्यादा तकनीकी कोर्सों में पढ़ रहे विद्यार्थियों ने भाग लिया।

के कुलसचिव डॉ. अनिल कुमार पुंडीर, इनक्यूबेशन सेंटर के निदेशक प्रो. दीपक केडिया, कंप्यूटर साइंस एंड इंजीनियरिंग

ये थी विद्यार्थियों की महामारी संबंधित सर्वे एप

महामारी संबंधित सर्वे एप फील्ड में सर्वे के लिए प्रयोग की जाएगी। यह एप क्षेत्र विशेष के अनुसार फार्म स्वतः डिजाइन कर लेगी। इस एप की विशेषता ये है कि यह एप बिना इंटरनेट के भी काम करेगी। फार्म में भरी गई जानकारी इंटरनेट क्षेत्र में प्रवेश करते ही स्वतः अपलोड हो जाएगी। इसके अतिरिक्त इसका डाटाबेस भी तैयार होगा, जो आयुष मंत्रालय में शोध व आगे की योजना बनाने के लिए उपयोगी सिद्ध होगा। यह एप महामारी फैलने पर उसे नियंत्रित करने तथा उससे संबंधित योजनाएं बनाने में अत्यंत कारगर सिद्ध होगी।

आयुष मंत्रालय श्रेणी में लिया था भाग

विद्यार्थियों के समक्ष आयुष, कृषि, जल प्रबंधन के अतिरिक्त अन्य निजी व सरकारी संस्थाओं ने समस्याएं प्रस्तुत की थीं। विद्यार्थियों को उनका हल निकालना था। विश्वविद्यालय की टीम ने आयुष मंत्रालय श्रेणी में भाग लिया था। स्मार्ट इंडिया हेकाथोन प्रतियोगिता लगातार 36 घंटे तक चली, जिसमें विद्यार्थियों ने अत्यंत उच्चकोटि की प्रतिभा का प्रदर्शन करते हुए श्रेष्ठ स्थान प्राप्त किया।

विभाग के प्रो. ओपी सांगवान व टीम मेंटर डॉ. सुनील वर्मा उपस्थित रहे।

इन विद्यार्थियों ने तैयार की एप्लीकेशन

टीम का नेतृत्व मयंक शर्मा ने किया। टीम में कार्तिकेय चौधरी, कुलदीप, राणा अतुल, हितेन जैन तथा ज्योति रानी शामिल रहे। सभी विद्यार्थी कंप्यूटर साइंस एंड इंजीनियरिंग विभाग के हैं। टीम ने विश्वविद्यालय के पंडित दीन दयाल उपाध्याय इनोवेशन एंड इनक्यूबेशन सेंटर व कंप्यूटर साइंस एंड इंजीनियरिंग विभाग के सौजन्य से प्रतियोगिता में भाग लिया। विश्वविद्यालय के डॉ. सुनील वर्मा ने इस दौरान टीम का मार्गदर्शन किया। नमैं से एक प्रस्ताव को मानव संसाधन विकास मंत्रालय द्वारा इस प्रतियोगिता के लिए चयन किया गया।

Date 08-02-2022

कृत्रिम बौद्धिकता का तेजी से हो रहा विकास

हिसार। गुरु जंभेश्वर विश्वविद्यालय (जीजेयू) के कंप्यूटर साइंस एंड इंजीनियरिंग विभाग के सौजन्य से 'आर्टिफिशियल इंटेलिजेंसी एवं मशीन लर्निंग' विषय पर फैकल्टी डेवलपमेंट कार्यक्रम आरम्भ हुआ। अखिल भारतीय तकनीकी शिक्षा परिषद (एआईसीटीई) द्वारा प्रायोजित यह कार्यक्रम 12 फरवरी तक चलेगा। कार्यक्रम के ऑनलाइन उद्घाटन समारोह को संबोधित करते हुए कुलपति प्रो. बलदेव राज काम्बोज ने कहा कि कृत्रिम बौद्धिकता का दायरा बेशक भारत में अभी शुरुआती दौर में है, लेकिन इसका तेजी से विकास हो रहा है। क्लाउड, एआई, आईओटी, आदि के रूप में नवाचारों ने कंप्यूटर शक्ति को और अधिक स्मार्टर बना दिया है और विश्व को आपस में पहले से अधिक नजदीक ला दिया है। विशिष्ट अतिथि कुलसचिव प्रो. अवनीश वर्मा ने कृत्रिम बौद्धिकता के इंजीनियरिंग एप्लीकेशन में प्रयोग के बारे में विस्तार से जानकारी दी। डीन एफईटी प्रो. सरोज ने रोबोटिक सर्जरी और चालक रहित वाहनों में कृत्रिम बौद्धिकता की भूमिका को समझाया। कार्यक्रम के मुख्य वक्ता आरएनएस प्राइवेट लिमिटेड लैब बंगलुरु के संस्थापक एवं सीईओ इंजीनियर रामदयाल गोयल ने 'कृत्रिम बौद्धिकता एक चुनाव या एक जरूरत' विषय पर अपना व्याख्यान दिया। संवाद

Date 15-02-2022

आर्टिफिशियल इंटेलिजेंस एंड मशीन लर्निंग विषय पर कार्यक्रम

हिस्सार/ 15 फरवरी/ रिपोर्टर

गुरु जम्भेश्वर विज्ञान एवं प्रौद्योगिकी विश्वविद्यालय के कंप्यूटर साइंस एंड इंजीनियरिंग विभाग के सौजन्य से 'आर्टिफिशियल इंटेलिजेंस एंड मशीन लर्निंग' विषय पर एक सप्ताह तक चला एआईसीटीई द्वारा प्रायोजित ऑनलाइन फैकल्टी डेवलपमेंट प्रोग्राम (एफडीपी) का समापन हो गया है। पीडीयूआईआईसी के निदेशक प्रो. धर्मेन्द्र कुमार ने कहा कि समाज की बेहतरी और उनके दीर्घकालिक विकास के लिए नई कृत्रिम बौद्धिकता आधारित तकनीकों को

नियोजित किया जाना चाहिए। एफडीपी की डीन प्रो. सरोज ने कहा कि हमें एक बेहतर दुनिया बनाने के लिए कृत्रिम बौद्धिकता-आधारित आविष्कार के सकारात्मक पहलुओं का लाभ उठाना चाहिए। कंप्यूटर साइंस एंड इंजीनियरिंग विभाग के अध्यक्ष एवं एफडीपी के संयोजक प्रो. धर्मेन्द्र कुमार ने मानव बुद्धि के महत्व को एक सुंदर उदाहरण के साथ समझाया। उन्होंने कहा कि एआई एल्गोरिदम इंसानों की तुलना में अलग तरह से सीखते हैं, क्योंकि वे चीजों को अलग तरह से देखते हैं। इस विश्वास को दोहराते हुए कि

किसी भी शैक्षणिक संस्थान के पास सबसे महत्वपूर्ण संसाधन उसके संकाय सदस्य होते हैं, जो विद्यार्थियों को ज्ञान और कौशल प्रदान करते हैं। इस एफडीपी का उद्देश्य संकाय सदस्यों और शोधार्थियों का व्यावसायिक विकास करना है। यह एक इस आभासी कार्यक्रम में प्रतिभागियों को एआई, मशीन लर्निंग और डीप लर्निंग में नवीनतम उपकरणों और तकनीकों के बारे में ज्ञान दिया गया। इस प्रकार के आयोजनों को नियमित रूप से करने की अत्यंत आवश्यकता है, क्योंकि प्रतिष्ठित और प्रमुख संस्थानों और उद्योगों

के प्रख्यात वक्ताओं ने अपने ज्ञान को साझा किया और प्रतिभागियों को आर्टिफिशियल इंटेलिजेंस और मशीन लर्निंग के क्षेत्र में चुनौतियों और आवश्यकताओं से अवगत कराया। प्रतिभागियों को आर्टिफिशियल इंटेलिजेंस, मशीन लर्निंग और डीप लर्निंग के विभिन्न पहलुओं से परिचित कराने के लिए थ्योरी और हैंड्स-ऑन प्रैक्टिकल सत्रों में विभाजित 18 सत्रों का आयोजन किया गया। समापन सत्र का समापन एफडीपी समन्वयक एवं विभाग के सहायक प्रोफेसर डॉ. कृष्ण कुमार रंगा के धन्यवाद प्रस्ताव के साथ हुआ।

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