

Shambhunath Institute of Engineering and Technology

Department of Computer Science & Engineering

Vol-1

Annual Year: 2020-2021

USI- DIGEST

Vision of the Department

“Provide experimental, innovative knowledge in the field of computer science and engineering to meet the National and Global needs”.

Mission of the Department

Editorial Board:

Chief Editor:

Mr. Abhishek Pandey
Assistant Professor

Faculty Editor:

Mr. Niraj Tiwari
Assistant Professor

Student Members:

Pradyumn Kumar Pandey
Nisha Gupta

Inside This Issue

- Events
- Faculty Publications
- Placements

M1: *To offer professional leaning environment for student in Computer Science & Engineering ensuring fundamentals and analytical ability..*

M2: *To have research and development collaborations to keep side by side with emerging technological advancements and create cutting edge technology-driven solutions for problems faced by Society and Industries..*

M3: *To inculcate social and ethical values in students for the wellbeing of the nation and globe.*

M4: *To motivate students for higher studies, entrepreneurship ability, innovative activities for the lifelong learning and sustainable development.*

Program Educational Objectives (PEOs) of Department

PEO1: *Graduates will be able to take up technical/ professional positions for design, development and problem solving in software industries, R&D organizations as well as will be a solution provider as an entrepreneur in various areas of Computer Science & Engineering.*

PEO2: *To understand their ethical professional, legal, and social responsibilities and contribute for the betterment of the society through active engagement with professional societies, schools, civic organizations or other community activities.*

PEO3: *Graduates will be capable and competent to pursue higher studies in Institutions of International / National repute.*

CSI Foundation Day

CSI Foundation Day organised by Department of Computer Science & Engineering, SIET, Prayagraj in association with CSI Allahabad Chapter and CSI-SIET Student chapter on 6th March, 2020 in hybrid mode. The inaugural ceremony started sharp at 4.00 P.M. with the lighting of the lamp on 6th March, 2020.

After this Prof. D.K. Dwivedi, Patron, CSI Allahabad Chapter started with the welcome note. He welcomed all the guests along with the students of the department of Computer Science and Engineering and also shared his views.

Sri Harish Mehta, Co-Founder & Former Executive Chairman, NASSCOM was then invited to the present his Expert Talk on the **Topic: Indian IT industry- making India a smart nation, a digital nation.**

Prof. D.B. Phatak, Emeritus Professor, IIT Bombay also give expert lecture on the Topic: India's Preparedness for Global Leadership in IT. Then Invited talk by Prof. Kannan M. Moudgalya, IIT Bombay, on Spoken Tutorials and FOSSEE for AtmaNirbhar. Sri Amit Sharma, Advisor (Cyber) & Director, DRDO, Ministry of Defence, Govt. of India also give expert talk on **Advanced Cyber Threats to National Security.** Sri M.D. Agarwal, Past President, CSI concluded the session.

The session was very interactive and informative as well. All the students enjoyed this workshop and have been interested to further gain knowledge.



INTERNATIONAL WEBINAR

The Department of Computer Science & Engineering organized an International Webinar for students on “**Blockchain and AI-Based Service Scenarios for Futuristics Smart City**” On **12 DEC,2020**. This programme was attended by more than 80 students online mode and the Eminent Speaker of the Event is **Mr. Sushil Kumar Singh** , Dept. of Computer Science & Engg. Seoul National University of Sci. & Tech., Seoul, South Korea. Speaker discusses about the Integrating blockchain and AI technologies into smart cities offers numerous opportunities to enhance urban life. Smart cities use blockchain to manage decentralized energy grids, allowing residents to produce, trade, and sell surplus energy from renewable sources like solar panels. AI optimizes energy distribution based on consumption patterns, weather forecasts, and demand predictions, ensuring efficient use of resources and minimizing waste.

The session was very interactive and informative as well. All the students enjoyed this workshop and have been interested to further gain knowledge.

The poster features a central image of a man in a suit pointing, with a QR code and registration details on the left. Logos of participating institutions are at the top. A list of speakers and their affiliations is on the right. Contact information is at the bottom left.

INTERNATIONAL WEBINAR
on
Convergence of Blockchain and AI-based Service Scenarios for Futuristics Smart City

Dr. A.P.J. Abdul Kalam
Technical University
Uttar Pradesh

Shambhunath
Institute of Engineering
and Technology,
Prayagraj

Seoul National University of Science and Technology, Seoul, South Korea

Registration
<https://tinyurl.com/webinarseoul>
Only registered participants will get E-Certificate.
12 Dec 2020 11:00 AM
Google Meet **nvt-haja-yqp**

Eminent Speaker
Mr. Sushil Kumar Singh
Dept. of Computer Science & Engg.
Seoul National University of Sci. & Tech.
Seoul, South Korea

Chief Patron
Dr. R.K. Singh
(CAO , S.G.I. ,Prayagraj)

Coordinator
Dr. Radha Raman Chandan
(Professor in CSE Dept.)
Dr. Vivek Singh
(Professor in ECE Dept.)

Any Queries 93361 94294 rrcmiet@gmail.com
9580691046 gns.siet@gmail.com

IBTC-2020 2 day Workshop & Competition

On
7-8
February,
2020

Organized
by
Department
of Computer
Science &
Engineering,
SIET,
Prayagraj, in
association
with CSI
Allahabad
Chapter and
CSI-SIET
Student
Branch



IBTC-2020
2 day Workshop & Competition

Coding Competition

On 16th & 23rd August, 2020

Organised by Department of CSE, Computer Society of India Allahabad Chapter & CSI-SIET Student Branch



ONLINE WEBINAR

The Department of Computer Science & Engineering and CSI student chapter organized an Online Webinar for students on “**Software defined radio and future of 5G**” On **23rd July,2021**. This programme was attended by more than 80 students and Faculties and staffs online mode and the Eminent Speaker of the Event is **Dr. Girish Chandra Tripathy** ,Co-Founder and CEO Linear-Amp Tech Pvt. Ltd. Speaker discusses about the software Defined Radio (SDR) is playing a significant role in the evolution of 5G and beyond, offering flexibility, adaptability, and efficiency in wireless communication systems. SDR allows for the reconfiguration of network protocols and frequencies through software updates rather than hardware changes. This flexibility is crucial in 5G, where diverse requirements such as low latency, high bandwidth, and massive connectivity coexist. The session was very interactive and informative as well. All the students enjoyed this workshop and have been interested to further gain knowledge.

Shambhunath Group of Institutions

Organised
Online Webinar
on
Software defined radio and future of 5G

2 PM
23, July - 2021

Our Speaker

Dr. Girish Chandra Tripathi
M.Tech. & Ph.D. IIT-Roorkee
Co-founder and CEO,
Linear-AmpTech Pvt. Ltd.
10+ Years of Industry and
Academic Experience.

The key intention of the webinar is to provide opportunity to the global participants to enhance the industry oriented knowledge and recent research trends on the SDR and future of 5G .

About Webinar

Chief Patron
Dr. K. K. Tewari
Secretary, SGI

Patron
Dr. R.K. Singh
CAO, SGI

Organiser -
Dr. Kamal Prakash Pandey
Dr. Abhishek Pandey
Dr. Mayank Malviya

REGISTER AT <https://forms.gle/N8hUWiaV3Rzz1Ss47>

ONLINE WEBINAR

The Department of Computer Science & Engineering and CSI student chapter organized an Online Webinar for students on “ **Wireless LAN(WiFi) evolution and latest trends**” On 17th July,2021. This programme was attended by more than 50 students and Faculties and staffs online mode and the Eminent Speaker of the Event is **Mr. Surendra Kumar Tadi**, Senior Manager, Qualcomm Pvt. Ltd. Speaker discusses about The evolution of Wireless LAN (WiFi) technology has been marked by rapid advancements that continually improve speed, efficiency, security, and overall user experience. Implementation of WPA3 for stronger security, addressing vulnerabilities of older protocols and providing better protection for open and IoT networks.

The session was very interactive and informative as well. All the students enjoyed this workshop and have been interested to further gain knowledge.

Shambhunath Group of Institutions

Organised
Online Webinar
on
Wireless LAN (WiFi) evolution and latest trends

2 PM
17, July - 2021

Our Speaker

Surendra Kumar Tadi
Senior Manager,
Qualcomm India Pvt. Ltd. Bengaluru
Formerly worked with DRDO and
Freescale Semiconductor.
18+ Years of Industry Experience

About Webinar

The key intention of the webinar is to provide opportunity to the global participants to enhance the industry oriented knowledge and recent research trends on the Wireless LAN (WiFi).

Chief Patron
Dr. K. K. Tewari
Secretary, SGI

Patron
Dr. R.K. Singh
CAO, SGI

Organiser -
Dr. Kamal Prakash Pandey
Dr. Abhishek Pandey
Dr. Mayank Malviya

REGISTER AT <https://forms.gle/Y1mLZQYwZ2B2NQeW9>

ymo-iidj-kgb

802.11 Evolution

Name	802.11	802.11b	802.11g	802.11n	802.11ac	802.11ad	802.11ax
Speed	2 Mbps	11 Mbps	54 Mbps	150 Mbps	460 Mbps	6.93 Gbps	6.93 Gbps
Modulation	DSSS	HR-DSSS	OFDM	Extended Rate PHY (ERP)	High Throughput (HT)	Very High Throughput (VHT)	Directional Multi-Gigabit (DMG)
Security							
PHY	DSSS	DSSS/CKK	OFDM	OFDM	OFDM	OFDM	Improved Beamforming for spatial multiplexing
Bandwidth (MHz)	22	22	20	20	20-40	20-160	2160

All newer Wi-Fi standards have to support legacy devices, complexity grows

surendra is presenting

surendra

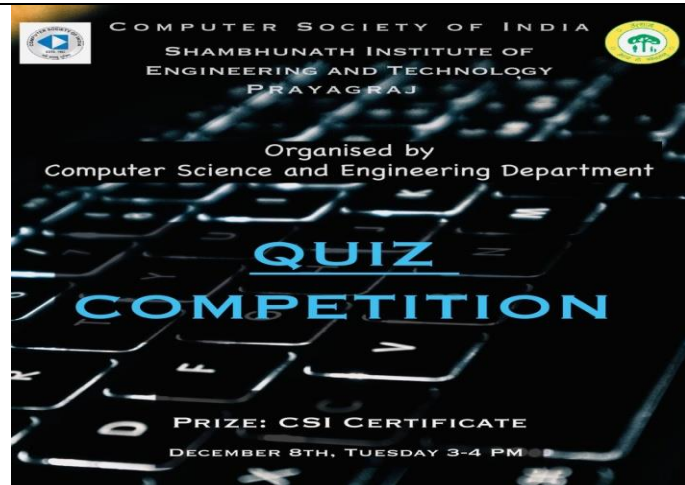
kaleem

You

Anike41 others

Quiz Competition: Dec-08,2020

**Organized by
Department of
Computer Science &
Engineering, SIET,
Prayagraj in
association with CSI
Allahabad Chapter
and CSI-SIET Student
Branch.**



**National
Mathematics
Day
22 Dec, 2021**

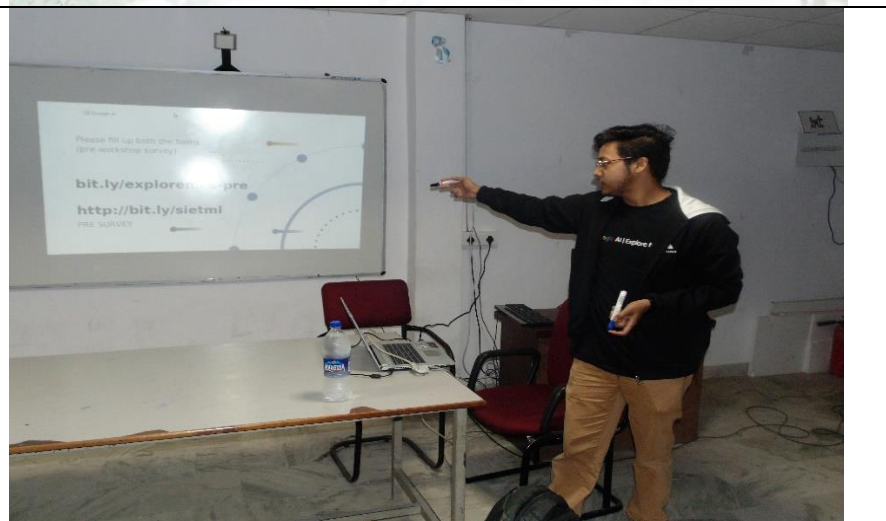
**Celebrated by
Department of
Computer
Science &
Engineering,
SIET, Prayagraj**



Workshop On Machine Learning

28th Jan, 2021

**Organized by
Department of
Computer
Science &
Engineering,
SIET, Prayagraj**



1. Radha Raman Chandan, “Consensus routing and environmental discrete trust based secure AODV in MANETs”, International Journal of Computer Networks & Communications (IJCNC), Volume 12, Pages: 1-20, 2020
2. Radha Raman Chandan, PK Mishra, “Performance analysis of AODV under black hole attack”, 2nd International Conference On Advanced Computing And Software Engineering , Pages: 585-588.
3. Shwet Ketu, Pramod Kumar Mishra,” Enhanced Gaussian process regression-based forecasting model for COVID-19 outbreak and significance of IoT for its detection” Applied Intelligence., Volume 51, Pages: 1492-1512, 2021.
4. Shwet Ketu, Pramod Kumar Mishra,” Scalable kernel-based SVM classification algorithm on imbalance air quality data for proficient healthcare” Complex & Intelligent Systems., Volume 7, Pages: 2597-2615, 2021.
5. Shwet Ketu, Pramod Kumar Mishra, Sonali Agarwal,” Performance analysis of distributed computing frameworks for big data analytics: hadoop vs spark” Computación y Sistemas, Volume 24, Pages: 669-686, 2020.
6. Shwet Ketu, Pramod Kumar Mishra,” A Hybrid Deep Learning Model for COVID-19 Prediction and Current Status of Clinical Trials Worldwide” Soft Computing, Volume 66, Pages: 1896-1919, 2020

PLACEMENTS

A total of **32** students of B.Tech. (CSE) are placed in software and hardware companies like WIPRO, Daffodil Software Ltd, TCS, TCI etc. during Academic Year 2020-2021.

S.N	Student ID	Roll No.	Name	Company Name	Package
1	16BTCS0143	1616210001	Aalim Ali	JustDial Ltd.	3.08 LPA
2	16BTCS0255	1616210004	Abhishek Kumar	JustDial Ltd.	3.08 LPA
3	16BTCS0239	1616210005	Abhishek Kumar Singh	JustDial Ltd.	3.08 LPA
4	16BTCS0257	1616210006	Abhishek Kumar Yadav	JustDial Ltd.	3.08 LPA
5	16BTCS0145	1616210009	Aditya Kumar	JustDial Ltd.	3.08 LPA
6	17BTCS1053	1716210901	Aditya Tripathi	IGT Solutions	2.40 Lacs CTC
7	16BTCS0284	1616210010	Aditya Yadav	JustDial Ltd.	3.08 LPA
8	16BTCS0170	1616210012	Ahmad Nasim	Stay In Front	1.08 LPA
9	16BTCS0414	1616210013	Ajay Singh Patel	Stay In Front	1.08 LPA
10	16BTCS0184	1616210014	Ajeet Kumar	Stay In Front	1.08 LPA
11	16BTCS0116	1616210019	Amit Mishra	Stay In Front	1.08 LPA
12	17BTCS1037	1716210902	Anand Kumar	IGT Solutions	2.40 Lacs CTC
13	16BTCS0163	1616210022	Animesh Anand Mishra	Stay In Front	1.08 LPA
14	16BTCS0160	1616210025	Arvind Raj	Stay In Front	1.08 LPA
15	16BTCS0106	1616210026	Arzoo Kushwaha	Stay In Front	1.08 LPA
16	16BTME0149	1616210030	Ashutosh Sharma	JustDial Ltd.	3.08 LPA
17	16BTCS0422	1616210031	Ashutosh Tripathi	JustDial Ltd.	3.08 LPA
18	16BTCS0273	1616210032	Atul Kumar Mishra	JustDial Ltd.	3.08 LPA
19	16BTCS0150	1616210060	Mayank Kesarwani	Capgemini India	3- 5 LPA
20	16BTEC0020	1616210062	Mayur Pandey	JustDial Ltd.	3.08 LPA
21	16BTCS0334	1616210063	Mohammad Suhail	JustDial Ltd.	3.08 LPA
22	17BTCS1034	1716210801	Priya Yadav	IGT Solutions	2.40 Lacs CTC
23	16BTCS0123	1616210082	Radhika	JustDial Ltd.	3.08 LPA
24	16BTCS0140	1616210083	Rahul Kesarwani	JustDial Ltd.	3.08 LPA
25	16BTCS0049	1616210084	Rahul Kumar Yadav	JustDial Ltd.	3.08 LPA
26	16BTCS0164	1616210085	Raj Dubey	JustDial Ltd.	3.08 LPA
27	16BTCS0125	1616210086	Rajeev Tripathi	JustDial Ltd.	3.08 LPA
28	16BTCS0113	1616210096	Shagun	JustDial Ltd.	3.08 LPA
29	16BTCS0264	1616210097	Shalini Kumari	JustDial Ltd.	3.08 LPA
30	16BTCS0210	1616210098	Shalini Priya	JustDial Ltd.	3.08 LPA
31	16BTCS0338	1616210099	Shashi Kumar	JustDial Ltd.	3.08 LPA
32	15BTCS0260	1516210100	Vivek Tiwari	JustDial Ltd.	3.08 LPA
