

2020-21, (Volume. II)

Department of Information Technology
Chronicle
(Annual Technical Magazine)



ABES Institute of Technology, Ghaziabad

(Session: 2020-2021)

Website: www.abesit.in

Department of Information Technology

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Message From HOD's Desk



**Dr. Bipin Kumar Rai,
Professor and Head of Department, IT**

I am happy to congratulate the team that has taken the initiative for this Department Magazine for the academic year 2020–21.

This Magazine acts as a platform for students and faculty to share the latest Technical knowledge and cultivate right ways that will equip all of us to stay competent in our respective fields of study and research. I congratulate and thank the Faculty coordinator Prof. Shivani Sharma for her untiring efforts to publish this Magazine. I hope that everyone would continue to give their full efforts to keep the momentum.

EDITORIAL BOARD

Faculty Co-ordinator

Ms. Shivani Sharma

(Assistant Professor, IT)

Student Co-ordinators

Krati Srivastava

(2nd year, IT)

Sanskriti Joshi

(2nd year, IT)

Vision and Mission of Department

Introduction To Information Technology Department

The Department offers Bachelor of Technology programme in Information Technology. The faculty and staff members of the Department are well qualified and efficient in guiding the students in every field of the Information Technology. The area of Information Technology aims at design, implementation and management of computer-based information systems. These automated information systems are capable of storing, transmitting, and retrieving of all types of complex data. The Department develops IT Graduates having good problem-solving capabilities, communication skills and habit to learn new technologies. Apart from prescribed university curriculum, focus is on practical and skill-based training to ensure that students grow according to changing market scenario.

Vision

To become a front runner in transforming the individuals into competent IT professionals, to meet the needs of evolving technology and serve humanity.

Mission

- To impart quality education with the innovative teaching-learning process to develop a culture of research and innovation.
- Collaborate and interact with industry professionals, academicians to provide suitable forums to exhibit the creative talent of students.
- Provide leadership and planning for effective and strategic use of Information Technology.

SIH 2020 Hardware Finalist



Congratulations!!!

Team Angry_Nerds

for participating in
Smart India Hackathon 2020 (Hardware Edition)

Grand Finale L3 Evaluation



Deepali Rao (IT)
Team Leader



Pallavi Ghosal (IT)
Team Member



Sagar Singhal (IT)
Team Member



Digvijay Dheer (IT)
Team Member



Veral Agarwal (ECE)
Team Member



Prince Divedi (ECE)
Team Member

Under the Mentorship of Prof. Rachit Patel & Prof. Shivani Sharma

Developing a platform to avail government schemes to different societies easily without the intervention of middle man which will help to reduce the corruption for Cognizant Technology Solutions India Pvt. Ltd

Admission Enquiry : 8287516758, 8287516759, 9711060929
Website: www.abesit.edu.in Email: admission@abesit.edu.in
19th Km. Stone, NH-09, Vijay Nagar, Ghaziabad-201009 (UP)

BIT BRAIN CLUB ACTIVITIES

Workshop on "Scrap with Python"

ABESIT
COLLEGE OF ENGINEERING

BITBRAIN

Workshop on "Scrap With Python"

Introduction To Python + Web Scraping

Date and Time: 19/09/2020
02:00 PM to 05:00 PM

Mode: Google meet

Coordinator: Ms. Shivani Sharma (Asst. Prof. IT)

Registration Link: <https://bit.ly/3hCiG55>

Speakers:
Vaibhav Kumar (3rd year IT)
Satyam Gupta (3rd year IT)
Pranjal Sharma (3rd year IT)
Shubham Dhawan (3rd year IT)

ABESIT College of Engineering
Campus 2, 19th Km. Stone, NH 09, Ghaziabad, Uttar Pradesh 201009

Website : www.abesit.in
Contact No.: +91 84485 83370

The speakers of the event were:

Vaibhav Kumar(3rd Yr, IT)
Pranjal Sharma(3rd Yr, IT)
Satyam Gupta(3rd Yr ,IT)
Shubham Dhawan (3rd Yr ,IT)

A workshop on "Scrap with Python" was organized by the Bit-Brain Club which is owned by Department of Information Technology, ABESIT. Total 48 students participated in the workshop including 2nd and 3rd Yr (CS/IT/ECE) . The session covered the following topics: Introduction to Python (crash course): tuples, lists, functions, arrays & data structures. Web Scraping (using python): included the demonstration of scraping of IMDb website.

Workshop on "Django"

ABESIT
COLLEGE OF ENGINEERING

BITBRAIN

Workshop on Django

Introduction To Django+ Django Rest Framework

Date and Time: 17/10/2020-18/10/2020
3:00pm - 4:30 pm

Mode: Google meet

Coordinator: Ms. Shivani Sharma (Asst. Prof. IT)

Registration Link: <https://bit.ly/Django-Workshop>

Speaker: Tarun Agarwal(CSE 4th year)
Contact details:
Pranjal Sharma:+91 9654797066
Vaibhav Kumar:+91 8318620608

ABESIT College of Engineering
Campus 2, 19th Km. Stone, NH 09, Ghaziabad, Uttar Pradesh 201009

Website : www.abesit.in
Contact No.: +91 84485 83370

A two-day event was organized by Bit-Brain Club owned by the IT Department on 17th to 18th October 2020 from 3 pm to 5 pm. Tarun Agrawal, student of the CSE department was the speaker of the event. Around 65 students from CSE and IT and EC department attended the session. The expert talk was conducted in online mode through Google Meet.

Workshops and Expert Talks

Expert Talk on "Real Life Projects using Emerging Technologies"

IT Department Organized a Expert Talk on “Real Life Projects using Emerging Technologies” on 28/08/20 from 1:30 pm to 4 pm. Total 78 students from 3rd and 4th year IT attended the expert talk. The expert talk was conducted in online mode through

Google meet and it was coordinated by Ms Shivani Sharma, Assistant Professor, IT Department.

Workshop on "Cyber Security"

One Week Workshop on Cyber Security for Students of 3rd and 4th yr students (CS, IT and ECE) was organized by Department of Information Technology in association with Supraja Technologies.

On day one inauguration of program was followed by the interactive session by the speaker Mr Santosh Chaluvadi, Founder & CEO, Supraja Technologies, on the hackers, type of hackers & steps of hacking . Total 350 participants attended the session.

Expert Talk on Genetic Algorithm-How Amazon Plans its Deliveries?

Expert Talk on "Genetic Algorithm-How Amazon Plans its Deliveries?" was Organized for Students of 3rd and 4th year. The expert talk was conducted in online mode through Google meet was coordinated by Faraj Chishti, Assistant Professor, IT Department. The speaker for the session was Mr Harpreet Singh Sachdeva from EduGrad.

The Expert talk gave insights into the theoretical aspects as well as practical implementation for topic Genetic Algorithm. The resource person gave hands on experience on implementation of Amazon Travelling Salesman Problem.

“Foundation for Data Science, AI-ML”

The online session for the 8 week training program on “Foundation for Data Science, AI-ML” which is organized by the CoE-Data science, AI-ML owned by the Department of Information Technology resumed from 2 Dec 2020 .

The topics which were covered in the 3rd week of the training are Numpy and pandas. The experts from EduGrad gave insights into the theoretical and practical implementation of these topics. The resource person gave hands-on experience on the implementation of Numpy and Pandas.

FACULTY DEVELOPMENT PROGRAM

SESSION (2020-2021)

No. of Days/Weeks	FDP Attended	Date	Venue
1 Week	Attended one week Faculty Development Program Blockchain Technology- Architecture and its applications	14th to 18th June 2021	Organized by ABESIT and sponsored by AKTU
1 Week	Blockchain Technology, Research Avenues, and its applications	12th to 17th July 2021	Nirma University, Ahmedabad, Gujrat
1 Month	Completed innovation Ambassador Training (Advanced Level)	30th June to 30th July 2021	Conducted by MoE's Innovation Cell & AICTE
1 Week	Cyber Security	07th to 12th Sept 2020	ABESIT, Ghaziabad

Dr. Bipin Kr. Rai

2 Weeks	Data Science	15th to 27th Feb 2021	E & ICT Academy, IIT Kanpur
1 Week	Research Confront and document typesetting using LaTeX:202X	22nd to 27th Feb 2021	Organized by ABESIT and sponsored by AICTE
3 Weeks	'Student Engagement, Future of Education, Design Thinking & Innovation'	10th to 31st May 2021	Organized by Strategyk Consilium Pvt. Ltd., Bengaluru and Dr. A.P.J. Abdul Kalam Technical University
1 Week	Blockchain Technology : Architecture & its Applications	14th to 18th June 2021	Organized by ABESIT and sponsored by AKTU.
1 Week	Cyber Security	07th to 12th Sept 2020	ABESIT, Ghaziabad

Ms. Shivani Sharma

1 Week	Attended one week Faculty Development Program Blockchain Technology- Architecture and its applications	14th to 18th June 2021	Organized by ABESIT and sponsored by AKTU
1 Week	Research Confront and Document typesetting using Latex:202x, mode	22nd to 27th Feb 2021	ABESIT Ghaziabad (STTP Sponsored by AICTE)
1 Week	Completed innovation Ambassador Training (Foundation Level)	30th June to 30th July 2021	Conducted by MoE's Innovation Cell & AICTE
1 Week	Cyber Security	07th to 12th Sept 2020	ABESIT, Ghaziabad
1 Week	Data Science	04th to 10th Aug 2020	ABESIT, Ghaziabad

Dr. Kaushal Kishor

1 Week	Blockchain Technology : Architecture & its Applications	14th to 18th June 2021	ABESIT GHAZIABAD
1 Week	Cyber Security	07th to 12th Sept 2020	ABESIT, Ghaziabad

Dr. Satya Prakash Yadav

FACULTY DEVELOPMENT PROGRAM

Ms. Faraj Chishti

No. of Days/Weeks	FDP Attended	Date	Venue
1 Month	AI-GPUs and Deep Learning	20th April to 19th May 2021	Organised by Dr. A.P.J. Abdul Kalam Technical University,
1 Week	Blockchain Technology : Architecture & its Applications	14th to 18th June 2021	Organized by ABESIT and sponsored by AKTU.
1 Week	Artificial Intelligence: Application in Modern Scenarios	05th to 09th July 2021	Organised by M.B.M. Engineering College, Jodhpur sponsored by ATAL
1 Week	Cyber Security	07th to 12th Sept 2020	ABESIT, Ghaziabad
1 Week	"Deep learning for computer vision"	26th to 20th July 2021	Organised by KIET Group of institutions, GZB sponsored by ATAL

Mr. Sumit Kumar

1 Week	Attended one week Faculty Development Program Blockchain Technology- Architecture and its applications	14th to 18th June 2021	Organized by ABESIT and sponsored by AKTU
1 Month	Completed innovation Ambassador Training (Advanced Level)	30th June to 30th July 2021	Conducted by MoE's Innovation Cell & AICTE
1 Week	Cyber Security	07th to 12th Sept 2020	ABESIT, Ghaziabad

Ms. Sonika Bhatnagar

1 Week	Blockchain Technology : Architecture & its Applications	14th to 18th June 2021	Organized by ABESIT and sponsored by AKTU.
1 Week	Research Confront and document typesetting using LaTeX:202X	22nd to 27th Feb 2021	ABESIT GHAZIABAD
1 Week	Cyber Security	07th to 12th Sept 2020	ABESIT, Ghaziabad

Mr. Rishabh Kamal

1 Week	Blockchain Technology : Architecture & its Applications	14th to 18th June 2021	Organized by ABESIT and sponsored by AKTU.
1 Week	Research Confront and document typesetting using LaTeX:202X	22nd to 27th Feb 2021	ABESIT GHAZIABAD
1 Week	Cyber Security	07th to 12th Sept 2020	ABESIT, Ghaziabad

Ms. Deepti Singh

1 Week	Blockchain Technology : Architecture & its Applications	14th to 18th June 2021	Organized by ABESIT and sponsored by AKTU.
1 Week	Cyber Security	07th to 12th Sept 2020	ABESIT, Ghaziabad

Faculty Achievements

Book Published

Dr. Satya Prakash Yadav

Transforming Management with AI, Big-Data, and IoT
 Editors: Al-Turjman, F., Yadav, S.P., Kumar, M., Yadav, V.,
 Stephan, T. (Eds.)



Paper Published

Dr. Bipin Kumar Rai

Paper Published in International Journals/ Conferences

Bipin Kumar Rai, Ravi Verma, Shiva Tiwari, **"Using Open Source Intelligence as a Tool for Reliable Web Searching"** in **SN Computer Science**, ISSN: 2661-8907 Springer Nature Singapore Pte. Ltd (ACM Digital Library Indexed), <https://doi.org/10.1007/s42979-021-00777-4>

Dr. Bipin Kumar Rai & Ms. Shivani Sharma

Bipin Kumar Rai, Shivani Sharma, Anjani Kumar, Akash Goyal, "Medical Prescription and Report Analyzer" in International Conference on Contemporary Computing (IC3-2021) on (August 5th -7th, 2021) jointly organized by the Jaypee Institute of Information Technology (JIIT), Noida, India, and the University of Florida, Gainesville, USA. Proceedings published in **ACM ICPS** ISBN Number: 978-1-4503-8920-4 (ACM Digital Library Indexed), (Scopus Indexed) DOI: <https://doi.org/10.1145/3474124.3474165>.

Dr. Kaushal Kishor

1. **"Student Performance Prediction using Technology of Machine Learning."**
 Available at SSRN 3879645 (2021).
2. **"Prediction and Analysis of Financial Trends Using MI Algorithm."**
 Available at SSRN 3884458 (2021), 11796-11802.
3. **"Financial Supervision And Management System Using MI Algorithm."**
 Solid State Technology 63, no. 6 (2020): 18974-18982

Faculty Achievements

Book Chapter

Dr. Bipin Kumar Rai

Bipin Kumar Rai "**Access Control Mechanism in Healthcare Information System**", **Book Chapter** in "Cybersecurity: Ambient Technologies, IoT, and Industry 4.0 Implications" pp. 149-160. **CRC Press.**, 2021.

ISBN: 9780367702168, **eBook ISBN:** 9781003145042 **DOI:** 10.1201/9781003145042-10

Patent Published

Dr. Bipin Kumar Rai & Shivani Sharma

Indian Patent Published (Date: 18 June 2021), IPR No: **202111024778**

Invention Title: Blockchain Technology Enabled Smart Electricity Billing System

Inventor(S): **Dr. Bipin Kumar Rai & Shivani Sharma,**

Dr. Kaushal Kishor

Patent Application Publication in India, Application No. **202111009704 A** . Title is **An automated Health Care System with medical services Assistance** published on 19-03-2021

Student Research Papers

SESSION (2020-2021)

01

ATISHAY JAIN	"Financial Supervision And Management System Using ML Algorithm" Solid State Technology ISSN 0038-111x, Vol. 63, No. 6, Page 18974-18982.
YASH SHARMA	

02

Rahul Sharma	"Student Performance Prediction using Technology of Machine Learning" Presented in 2nd International Conference on Data Analytics and Management (ICDEM-2021) organized by Jan Wyzykowski University Poland and Panipat Institute of Engineering and Technology. Paper Available at Elsevier SSRN 3879645, 2021
Satyam Kumar Maurya	

03

ATISHAY JAIN	"Prediction and Analysis of Financial Trends Using MI Algorithm." Presented in 2nd International Conference on Data Analytics and Management (ICDEM-2021) organized by Jan Wyzykowski University Poland and Panipat Institute of Engineering and Technology. Paper Available at SSRN 3884458 (2021).
YASH SHARMA	

04

ANKIT SHARMA	"Predict COVID-19 with Chest X-ray" Presented in 2nd International Conference on Data Analytics and Management (ICDEM-2021) organized by Jan Wyzykowski University Poland and Panipat Institute of Engineering and Technology. Accepted for proceeding in Springer Lecture Notes (Scopus index).
NIKHIL JHA	

05

SANIYA TYAGI	"Study and development of Self Sanitizing Smart Elevators" Presented in 2nd International conference on Data analytics and Management (ICDEM-2021) organized by Jan Wyzykowski University Poland and Panipat Institute of engineering and Technology. Accepted for proceeding in Springer Lecture Notes (Scopus index).
SATYAN GUPTA	

06

VIMAL VASHISHTHA	"A Collective Polling Platform for Recording and Sharing People's Opinion" International Journal of Innovative Research in Technology(IJIRT) Volume 8 Issue 1 ISSN: 2349-6002
SAMARTH GARG	

07

RISHI KUMAR KAMAT	"THIRD EYE FOR BLIND PERSON (SMART GLOVES)" International Journal of Innovative Research in Technology(IJIRT) Volume 8 Issue 1 ISSN: 2349-6002
RITIK SINGH	

08

MAYANK SHARMA	"MALWARE DETECTION USING MACHINE LEARNING" International Journal of Innovative Research in Technology(IJIRT) Volume 8 Issue 1 ISSN: 2349-6002
AKARSH SRIVASTAVA	

09

ANUPAM KUMAR	"RIDEINWAY" International Journal of Innovative Research in Technology(IJIRT) Volume 8 Issue 1 ISSN: 2349-6002
KRISHNA KUMAR MADHESIYA	

13

10

AKASH KESHARWANI	"Hand Talk: Intelligent gesture-based communication recognition & object identification for Deaf and Dumb" Presented in International Conference on Computational Intelligence & Computing Applications-21(ICCICA 21)
SHREYASHI MAHESHWARI	

11

DEEPALI RAO	"SAHYOG: AN INFORMATION-DELIVERY CHANNEL USING KIOSK & HONEYPOT" Presented in International Conference on Computational Intelligence & Computing Applications-21(ICCICA 21)
PALLAVI GHOSAL	

12

VISHNU KUSHWAHA	"AUTOMATED VOICE ASSISTANT" Presented in 4th Edition of International Conference on Communications and Cyber-Physical Engineering (ICCCE-2021)
VISHAL TYAGI	

13

SHURTI GARG	"Voice-Text Chat App" International Journal of Innovative Research in Technology(IJIRT) Volume 8 Issue 1 ISSN: 2349-5162
TRAPTI MISHRA	

14

GAURAV	"Unusual Event Detection" Presented in International Conference on Recent Trends in Parallel and Distributed Processing Techniques(RTPDP-2021)
SARTHAK CHAHAL	

15

ROHIT SHARMA	"Virtual Auto Stand" International Journal of Scientific Research in Engineering and Management, Volume:05 Issue:04, April 2021
SPARSH SRIVASTAVA	

16

ANIKET KUMAR CHAUDHARY	"Indoor Navigation System" International Journal of Innovative Research in Technology, Volume 8, Issue 2
AMRIT RAJ	

17

JULI	"Epidemic Tracker" Presented in International Conference on Advances in Security and Computing (ICASC 2021)
SATYAM PAL	

18

JUHI RAJPUT	"Face Mask Detection " IJSTE - International Journal of Science Technology & Engineering Volume 7 Issue 7 January 2021
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19

SAHIL KHERA	"Investment Management and Trading SimulatorApp" Presented in 3rd international conference on Advance in Management and Technological Innovations: MNIT Prayagraj
PRIYA KATIYAR	

20

SIDDHARTH YADAV	"Android Notes using Finger Print Authentication" International Journal of Science and Research (IJSR) Paper ID- SR21405101230
VAIBHAV GARG	

Congratulations and Wishing All The Success!!

S.No	Name of Student	Company
1	Sparsh Srivastava	Xoriant
2	Sarthak Chahal	Vinove Software, Coforge
3	Dhishwari Singh	InnoBit Systems, Cognizant , TCS
4	Juli	InnoBit Systems, Wipro
5	Gaurav	Coforge
6	Ritik Singh	Coforge
7	Satyam Pal	Velocity Software
8	Vimal Vashisth	NetProphets
9	Pallavi Ghosal	NTT Data, Accenture
10	Riya Mittal	ONE BCG, Accenture
11	Rohit Sharma	Indus Valley
12	Anjani Kumar	NetProphets
13	Syedaamir Hussain Zaidi	NetProphets
14	Shreyshi Maheshwari	Erasmith Technologies
15	Akash Goyal	QA InfoTech
16	Digvijay Chauhan	QA InfoTech
17	Nikita Gupta	QA InfoTech
18	Aditya Kumar Pandey	QA InfoTech
19	Atishay Jain	QA InfoTech
20	Mayank Sharma	QA InfoTech
21	Trapti Mishra	QA InfoTech, TalentSarve
21	Trapti Mishra	QA InfoTech, TalentSarve
22	Yash Sharma	QA InfoTech

Congratulations and Wishing All The Success!!

S.No	Name of Student	Company
23	Akanksha Tyagi	TalentSarve, QA InfoTech
24	Akarsh Srivastava	TalentSarve
25	Deepali Rao	TalentSarve
26	Nitin Bhati	TalentSarve, Advintek Technologies
27	Priya Katiyar	TalentSarve
28	Rahul Sharma	TalentSarve
29	Vishal Tyagi	TalentSarve, Planetcast Media Services
30	Yash Raghav	TalentSarve, Cloud Analogy
31	Roshan Sharma	QA InfoTech, Sopra Steria
32	Bhawana Arora	Accenture
33	Vineet Vashisht	CharPixel Technologies
34	Ankit Sharma	Cloud Analogy, Wipro
35	Juhi Rajput	Cloud Analogy
36	Nikhil Jha	Cloud Analogy, TCS, Innolabz
37	Aniket Kumar Chaudhary	Innolabz
38	Saniya Tyagi	Planetcast Media Services
39	Nirmal Akash	Innolabz
40	Akash Kesarwani	cloud Analogy, Accenture
41	Shruti Garg	cloud Analogy
42	Sidh Bhardwaj	cloud Analogy
43	Satyan Gupta	Spraxa Solution
44	Sahil Khera	Gerson Lehman Group, Cognizant

WhatsApp: the newest medium to make Privacy a Myth?

Article by : Krati Srivastava (3rd Year IT)

WhatsApp, owned by Facebook, Inc. is a multiplatform messaging and Voice over IP (VoIP) application service. Established in 2009 by ex-Yahoo employees it began as a tiny startup and surged up to 250,000 users in only a couple of months. Growing so fast it hit its first billion mark in July 2017.

“As part of the Facebook Companies, WhatsApp receives information from, and shares information (see here) with, the other Facebook Companies. We may use the information we receive from them, and they may use the information we share with them, to help operate, provide, improve, understand, customize, support, and market our Services and their offerings, including the Facebook Company Products.”

- Under the new conditions, WhatsApp will take information on mobile transactions, payment information, and purchase history
- Under the new arrangement, WhatsApp can likewise record your telephone discussions.

But then every cloud has a silver lining and so does this new privacy policy

- The approach gives explanations behind the information imparting to Facebook: from guaranteeing better security and battling spam to improving client experience, which were there in the past strategy too.
- The expanded information offering to Facebook will be utilized to improve promotion experience across different results of the organization.

Alternative apps like Signal is free, has solid encryption, and deals with every single versatile platform. Each and every message is encrypted. Telegram is a mainstream option in contrast to WhatsApp.

WhatsApp, which has been in a legal fight in court with the Government of India over the security strategy, has documented a lawful objection against the public authority over the enhanced IT Rules 2021. The prerequisite by the public authority to have the subtleties of the first sender of a message will require WhatsApp to adjust the end-to-end encryption for the stage—this ensures and encodes the message and the sender just as beneficiary subtleties. On the off chance that WhatsApp needs to discover the sender of a message, the feature will be turned off, or possibly modified essentially.