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Academic Session
2021-22 (Odd Semester)

e-Newsletter

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The IT Department offers Bachelor of Technology programme in Information Technology. The faculty members of department are well qualified and effective.

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(Assistant Professor, IT)

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VISION

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

MISSION

- To impart quality education with innovative teaching learning process to develop 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.

Inside This Issue	Page No.
Vision and Mission	1
Workshops	2
IT Technical Club Activities	3
BitBrain Club Events	4
Zen Club Events	5
FDP Attended by Faculty Members	6-7
Faculty Achievements	8-9
Students Achievements	10-11
Placements	12-13
Article: Evolution Of Web	14



Real Life Projects using Emerging Technologies



IT Department Organized an Expert Talk on “Real Life Projects using Emerging Technologies” on 19/10/21 from 3:00 pm to 4:30 pm. Total 55 students from 3rd year IT attended the expert talk. The expert talk was conducted in online mode and it was coordinated by Ms. Shivani Sharma, Assistant Professor, IT Department.

The Expert talk focused on identifying and formulation of solution for real life projects using emerging technology. The resource person gave a clear insight on basic understanding of frontend and backend of a website. He also demonstrated on designing a simple web app. The session was interactive and the students were motivated to do the projects. The students gained knowledge and were highly motivated as the resource person Mr. Ashish Shukla, Python Software Engineer at Ciena and is also the Alumni of this college.

Rush The Code



The event gave an good chance to participants for advancement in their Coding skills.

The event gave an adrenaline rush to the coder's with their actively participation and made this event a huge success with cognizance and a fun Techy day for all. Consequently, we have successfully achieved the goal of our event and the ***Winners*** for this event are

1. Ratan Deep Singh (CS 2nd Year), 2. Ravi Chauhan (CS 3rd Year), 3. Sachin Gupta (CS 2nd Year)

IT Technical Club congratulates the winners for this feat. Winners are awarded with prize money.

--> Also Congratulations to those who had participated and had make an effort endeavor to completed their task successfully.

Congratulations to all.

C programming Quiz Contest

IT Technical Club organized a "C programming Quiz Contest" for IT 2nd year students on 5th September 2021.

We are glad with the positive results, and participation. Therefore, we successfully conducted the event and finalize the following winners of the event.

1st Sushant Yadav

2nd Sanskar Gupta

3rd Mohit Kumar

We congratulate our winners for this achievement by providing them certificates and cash prize.

Organizers: Vedant Dubey, Tanisha, Taniya Goel, Radhika Piplani.



Workshop on "Data structures"



The IT technical club of IT department organised a workshop on 1st December for second-year students on "Data structures" from 11:30 am to 01:10 pm. The workshop was coordinated by Dr Bipin Kumar Rai, HOD(IT). The speaker for the workshop was Miss. Mosina Ashraf from CodingBlocks. The resource person gave hands-on knowledge about the importance of data structure in Coding rounds of interviews and how to kickstart their journey towards Data Structure. The students were mentored on their coding knowledge. The session was interactive with various coding riddles and questions from basic understanding of languages . The winners were rewarded with various prizes. The event was conducted successfully and the students were enthusiastic throughout the workshop.

Deep learning for computer vision



IT Department Organized an Expert Talk on "Deep learning for computer vision" on 21/10/2021 from 11:00 am to 1:00 pm. Students from 3rd year IT attended the expert talk. The speaker for the session was Mr. Ravikant Tyagi, CEO-Brain Mentors Pvt Ltd.

The Expert talk gave insights into challenging computer vision problems such as image classification and object detection. The session was interactive and the students learned how Deep learning can be used to solve complex and challenging problems.

BitBrain Club Events



Congratulations In this Quiz event, we have received 100+ Registrations for the first round from All years. A total of 13 Students has been qualified for Second Round.

Winners of **Quiz The IT World**, held on 20th October.

1st position- Ekansh Kumar(2nd-year DS-DS)
2nd position-Keshav Agarwal (2nd-year CS-AI)
3rd position-Vikas Yadav(2nd year IT)

Congratulations to all the winners and cheers to all those who participated with equal enthusiasm. We wish you all the of luck in future.



Zen Club Events



ZEN CLUB organised an event - "**HACK THE PROPS**" for students of all branches on 25 Nov 2021 from 3:50 pm to 4:50 pm. The event had a participation of around 21 students from different branches. The teams were given a theme on which they had to showcase their creative and innovative ideas. The event was a 40 minute mind hack session. The event was conducted successfully and the students were enthusiastic while presenting their creative ideas.

FDP Attended by Faculty Members

FACULTY DEVELOPMENT PROGRAM

SESSION (2021-2022)

Dr. Bipin Kumar Rai	1 Week	Data Science using Python	09th to 13th August 2021	Computer Science and Engineering Department NITTR Chandigarh, Ministry of Human Resource Development, Government of India
Dr. Kaushal Kishor	1 Week	Data Science using Python	09th to 13th August 2021	Computer Science and Engineering Department NITTR Chandigarh, Ministry of Human Resource Development, Government of India
Mr. Sumit Kumar	10 Days	Machine Learning & AI	09th to 19th August 2021	Eduxlabs India association with IIT Hyderabad
Ms. Deepti Singh	1 Week	Inculcating Universal Human Values in Technical Education"	09th to 13th August 2021	Computer Science and Engineering Department NITTR Chandigarh, Ministry of Human Resource Development, Government of India

FDP Attended by Faculty Members

FACULTY DEVELOPMENT PROGRAM

SESSION (2021-2022)

Mr. Rishabh Kamal

1 Week	Data Analysis Using Excel	20th to 24th July 2021	E & ICT Academy, IIT Kanpur
1 Week	"Inculcating Universal Human Values in Technical Education"	09th to 13th August 2021	All India Council for Technical Education(AICTE)
10 Days	Data Science and its Applications	07th to 16th March 2022	Conducted by MoE's Innovation Cell & AICTE

Dr. Satya Prakash Yadav

1 Week	UHV Refresher 1 Part 1	23rd to 27th August 2021	Data Science and its Applications
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Faculty Achievements

Faculty Paper Publish

SESSION (2021-2022)

Dr. Bipin Kumar Rai

Rai, B. K. (2022). Patient-Controlled Mechanism Using Pseudonymization Technique for Ensuring the Security and Privacy of Electronic Health Records. **International Journal of Reliable and Quality E-Healthcare (IJRQEH)**, 11(1), 1-15. DOI: [10.4018/IJRQEH.297076](https://doi.org/10.4018/IJRQEH.297076) (**Scopus Indexed**)

Rai, B. K. (2022). Ephemeral pseudonym based de-identification system to reduce impact of inference attacks in healthcare information system. **Health Services and Outcomes Research Methodology**, 1-19. DOI: [10.1007/s10742-021-00268-2](https://doi.org/10.1007/s10742-021-00268-2) (**ESCI, Scopus Indexed**)

Shahzad, F., Abid, F., Obaid, A. J., **Kumar Rai, B.**, Ashraf, M., & Abdulbaqi, A. S. (2021). **Forward stepwise logistic regression approach for determinants of hepatitis B & C among Hiv/Aids patients.** *International Journal of Nonlinear Analysis and Applications*, 12(Special Issue), 1367-1396. DOI: [10.22075/ijnaa.2022.5717](https://doi.org/10.22075/ijnaa.2022.5717) (**ESCI, Scopus Indexed**)

Rai, B.K., Verma, R. & Tiwari, S. Using Open Source Intelligence as a Tool for Reliable Web Searching. *SN COMPUT. SCI.* 2, 402 (2021). <https://doi.org/10.1007/s42979-021-00777-4> (**ACM Digital Library Indexed**).

S.No	Faculty Name	Publication Details	Date
01	Ms. Shivani Sharma & Dr. Bipin Kumar Rai	"Hand talk: Intelligent gesture based communication recognition & object identification for deaf and dumb", AIP Conference Proceedings 2424, 080007 (2022) https://doi.org/10.1063/5.0076796	01 Feb 2022
02	Dr. Bipin Kumar Rai & Ms. Shivani Sharma	Medical Prescription and Report Analyzer. In 2021 Thirteenth International Conference on Contemporary Computing (IC3-2021) (pp. 286-295). (Scopus, ACM digital library Indexed) DOI: https://doi.org/10.1145/3474124.3474165 .	Aug 2021
03	Ms. Shivani Sharma & Dr. Bipin Kumar Rai	"SAHYOG: An information-delivery channel using kiosks & honeypot", AIP Conference Proceedings 2424, 020005 (2022) https://doi.org/10.1063/5.0076720	01 Feb 2022

Faculty Achievements

Faculty Paper Publish

SESSION (2021-2022)

S.No	Faculty Name	Publication Details	Date
04	Dr. Bipin Kumar Rai & Ms. Shivani Sharma	"OCR based medical prescription and report analyzer", AIP Conference Proceedings 2424, 070006 (2022) https://doi.org/10.1063/5.0081176	01 Feb 2022
05	Dr. Kaushal kishor	(2022) Predict COVID-19 with Chest X-ray. In: Gupta D., Polkowski Z., Khanna A., Bhattacharyya S., Castillo O. (eds) Proceedings of Data Analytics and Management. Lecture Notes on Data Engineering and Communications Technologies, vol 90. Springer, Singapore. https://doi.org/10.1007/978-981-16-6289-8_16 .	01 Jan 2022
06	Dr. Kaushal kishor	(2022) Study and Development of Self Sanitizing Smart Elevator. In: Gupta D., Polkowski Z., Khanna A., Bhattacharyya S., Castillo O. (eds) Proceedings of Data Analytics and Management. Lecture Notes on Data Engineering and Communications Technologies, vol 90. Springer, Singapore. https://doi.org/10.1007/978-981-16-6289-8_15 .	01 Jan 2022
07	Dr. Kaushal kishor	(2022) Student Performance Prediction Using Technology of Machine Learning. In: Sharma D.K., Peng SL., Sharma R., Zaitsev D.A. (eds) Micro-Electronics and Telecommunication Engineering. Lecture Notes in Networks and Systems, vol 373. Springer, Singapore. https://doi.org/10.1007/978-981-16-8721-1_53	01 Jan 2022

Students Achievements

Student Research Papers

SESSION (2021-2022)

S.No	Topic Event	Roll No.	Student Name	Details of Paper Published	Date	Branch Year
01	Predict COVID-19 with Chest X-ray	1729013010	ANKIT SHARMA	Sharma A., Jha N.. (2022) Predict COVID-19 with Chest X-ray. In: Gupta D., Polkowski Z., Khanna A., Bhattacharyya S., Castillo O. (eds) Proceedings of Data Analytics and Management. Lecture Notes on Data Engineering and Communications Technologies, vol 90. Springer, Singapore. https://doi.org/10.1007/978-981-16-6289-8_16 .	01 Jan 2022	IT 4th Year
		1729013027	NIKHIL JHA			
02	Study and development of Self Sanitizing Smart Elevators	1729013043	SANIYA TYAGI	Gupta S., Tyagi S. (2022) Study and Development of Self Sanitizing Smart Elevator. In: Gupta D., Polkowski Z., Khanna A., Bhattacharyya S., Castillo O. (eds) Proceedings of Data Analytics and Management. Lecture Notes on Data Engineering and Communications Technologies, vol 90. Springer, Singapore. https://doi.org/10.1007/978-981-16-6289-8_15 .	01 Jan 2022	IT 4th Year
		1729013047	SATYAN GUPTA			
03	Student Performance Prediction Using Technology of Machine Learning.	1729013034	RAHUL SHARMA	Sharma R. (2022) Student Performance Prediction Using Technology of Machine Learning. In: Sharma D.K., Peng SL., Sharma R., Zaitsev D.A. (eds) Micro-Electronics and Telecommunication Engineering. Lecture Notes in Networks and Systems, vol 373. Springer, Singapore. https://doi.org/10.1007/978-981-16-8721-1_53	01 Jan 2022	IT 4th Year

Students Achievements

Student Research Papers

SESSION (2021-2022)

S.No	Topic Event	Roll No.	Student Name	Details of Paper Published	Date	Branch Year													
04	Hand Talk: Intelligent gesture based communication recognition & object identification for Deaf and Dumb	1729013005	AKASH KESHARWANI	"Hand talk: Intelligent gesture based communication recognition & object identification for deaf and dumb", AIP Conference Proceedings 2424, 080007 (2022) https://doi.org/10.1063/5.0076796	01 Feb 2022	IT 4th Year													
		1729013049	SHREYASHI MAHESHWARI				05	SAHYOG: AN INFORMATION-DELIVERY CHANNEL USING KIOSK & HONEYPOT	1729013015	DEEPALI RAO	Sharma R. (2022) Student Performance Prediction Using Technology of Machine Learning. In: Sharma D.K., Peng SL., Sharma R., Zaitsev D.A. (eds) Micro-Electronics and Telecommunication Engineering. Lecture Notes in Networks and Systems, vol 373. Springer, Singapore. https://doi.org/10.1007/978-981-16-8721-1_53	01 Feb 2022	IT 4th Year	1729013031	PALLAVI GHOSAL	06	Medical Prescription and Report Analyzer	1729013009	ANJANI KUMAR
05	SAHYOG: AN INFORMATION-DELIVERY CHANNEL USING KIOSK & HONEYPOT	1729013015	DEEPALI RAO	Sharma R. (2022) Student Performance Prediction Using Technology of Machine Learning. In: Sharma D.K., Peng SL., Sharma R., Zaitsev D.A. (eds) Micro-Electronics and Telecommunication Engineering. Lecture Notes in Networks and Systems, vol 373. Springer, Singapore. https://doi.org/10.1007/978-981-16-8721-1_53	01 Feb 2022	IT 4th Year													
		1729013031	PALLAVI GHOSAL				06	Medical Prescription and Report Analyzer	1729013009	ANJANI KUMAR	Sharma R. (2022) Student Performance Prediction Using Technology of Machine Learning. In: Sharma D.K., Peng SL., Sharma R., Zaitsev D.A. (eds) Micro-Electronics and Telecommunication Engineering. Lecture Notes in Networks and Systems, vol 373. Springer, Singapore. https://doi.org/10.1007/978-981-16-8721-1_53	01 Feb 2022	IT 4th Year	1729013004	AKASH GOYAL				
06	Medical Prescription and Report Analyzer	1729013009	ANJANI KUMAR	Sharma R. (2022) Student Performance Prediction Using Technology of Machine Learning. In: Sharma D.K., Peng SL., Sharma R., Zaitsev D.A. (eds) Micro-Electronics and Telecommunication Engineering. Lecture Notes in Networks and Systems, vol 373. Springer, Singapore. https://doi.org/10.1007/978-981-16-8721-1_53	01 Feb 2022	IT 4th Year													
		1729013004	AKASH GOYAL																

Placements

Congratulations and Wishing All The Success!!

S.No	Name of Student	Company
1	Devansh Kapoor	Knoldus
2	Vaibhav Kumar	Knoldus
3	Satyam Gupta	PAYTM
4	Abhijeet Chandel	Erasmith
5	Anuj Kumar	Erasmith
6	Vaibhav Kumar	Erasmith
7	Sumrah Fatima	To the new
8	Abhiraj Varshney	VectoScalar
9	Devanshu Pandey	Wipro
10	Digvijay Dheer	Wipro
11	Mohit Rawat	Wipro
12	Savi Sharma	Wipro
13	Vanshika Shukla	Wipro
14	Shreyshi Maheshwari	Erasmith Technologies
15	Aakash Prajapati	Traingle Services
16	Sunidhi Singh	Infinity Labs
17	Kaushiki Chopra	Innobit systems
18	Ishika Rastogi	Innobit systems
19	Simran Chaudhary	Mobcoder

Placements

Congratulations and Wishing All The Success!!

S.No	Name of Student	Company
20	Ashish Pawar	NTT Data
21	Rohan Tyagi	NTT Data
21	Kumar Satyarth	Timeswap
22	Dev sharma	Podtech India Pvt Ltd
23	Pranjal	Esec Forte Tech
24	Rakhi Bhati	Planet cast
25	Keshav Sharma	Planet cast
26	Tanya Tyagi	Planet cast
27	Akhilendra	Planet cast
28	Kashan khan	Planet cast
29	Tanmay	Planet cast
30	Sagar Singhal	Medcart Specialities India Pvt Ltd
31	Ritik	SysTools
32	Rishabh shukla	Algoworks

Evolution Of Web

Article by : Sanskriti Joshi IT (3rdYear IT)

The Web has Evolved itself so much since the Internet was introduced where we had the First Gen of World Wide Web as “Web 1.0” which was just a content delivery network (CDN) that enabled content creators to Portray information on websites. Though these static pages then desired to be dynamic and user driven hence we had “web 2.0” in our evolution journey that allows end users to share the content as well and gave them powers of being contributors. Web 2.0 has worked very well on user Interactiveness. Now the Evolution of web utilization was indeed so the back-end of web is more concerned now, as data is now Owned and Optionally shared through “web 3.0”. Here we will have Decentralized Databases helping Semantic web to serve more Security & Privacy.

The Era of Web 2.0 was giving appreciable powers to end users with Dynamic Web experience and Protected our data to an extent but still has lack of control over security and privacy which is the reason the Web 3.0 is a vision for extension of existing World Wide Web where Web 3.0 is more secure. Instead of insecure Databases & opaque data sharing Practices Web 3.0 will return control to users, letting them access data from anywhere and make the web a big decentralized database by focusing on organizing data in a meaningful way with capability of keeping data secure and private as well with help of advanced technologies.

Sounds good? But how ? “The way to web 3.0 is with Blockchain.” Blockchain gives more security and privacy as it gives us Liberty of decentralized data storage. Hence your personal information now is not stored in large centralized databases of big companies and decreases Personal data breaches. Bitcoin was the opening act that began web 3.0 Public Blockchain as ethereum by Providing a decentralized platform to run smart contracts and removing middlemen enabling individuals to communicate in Semantic Web individually. Now Tech Giants have no control over data of users which will yield more security & privacy to them. “The Blockchain is as significant now as the internet was 25 years ago”

One More Question is How Web 3.0 makes decentralization possible? The semantic web is an attempt to create a decentralized internet and empower users by taking control over large organizations, through AI & Semantic it will give meaning to data & web 3.0 is here to understand the human mind closely. Hence Web 3.0 is a Smarter sibling of web 2.0 to Change our lives & make it trouble free to search anything online by keeping our data secure.