

NEWSLETTER

```
int enqueue(Queue q, int i){
    Node n = new Node(i);
    n.val = i;
    n.next = null;

    if(q.head != null){
        q.tail.next = n;
    }
    if(q.head == null){
        q.head = n;
    }
    q.tail = n;

    return 1;
}
```



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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CSE NEWSLETTER

Volume: 10 Issue: 02 June-2021

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Message from the Department Head

Welcome to Computer Science & Engineering Department



**Dr. B Vijayakumar,
Professor & Head of the Department
Computer Science & Engineering.**

Hello everyone!

I hope that you all are staying healthy! We all have gone through an unusual pandemic year. We had no infections in our department, and in any classrooms or labs. All faculty members and all most all the students are vaccinated. This semester we have recruited few new faculty members for teaching our heavily enrolled students. All Faculty members have excellent academic credentials and are highly regarded. I advise faculty members to serve on the editorial boards of national and international journals, and review technical articles for journals.

We have much to celebrate. 200+ students of CSE got placed in 30 companies. We have a strong undergraduate program in “**Data Science**” with the sanctioned intake of 60.

I invite you to browse our website at www.vjit.ac.in where you will find detailed information about academics, events, achievements and teaching profile of our faculty.

I welcome you all to be a part of this journey and please accomplish the best.

Welcome to new batch of B.Tech CSE-Data Science

Welcome to new faculty in the department.

Warm regards,

Dr. B Vijayakumar,

STUDENTS' ACHIEVEMENTS

ఇంజనీరింగ్ విద్యార్థులు ఆరితేరాలి...

- జంట నగరాల ఇంజనీరింగ్ కన్ట్రాక్షన్ ఎండ్ రాకేష్మెంట్...



మొయినాబాద్ జనసాక్షి :09 సీవిల్ ఇంజనీరింగ్ విద్యార్థులు ఆరితేరినప్పుడే విద్యార్థులకు బంగారు భవిత ఉంటుందని హైదరాబాద్ ఇంజనీరింగ్ కన్ట్రాక్షన్ సంస్థ ఎండ్ ఈఆర్.రాకేష్మెంట్ అన్నారు. సోమవారం మండలంలోని అజీజ్ నగర్ చౌరస్తాలో గల విద్యాజ్యోతి ఇంజనీరింగ్ కళాశాలలో సీవిల్ ఇంజనీరింగ్ చదువుతున్న విద్యార్థులకు తమ సంస్థ ద్వారా ఉద్యోగ అవకాశాన్ని కల్పించేందుకు ఒప్పంద కార్యక్రమాన్ని నిర్వహించారు. ఈ కార్యక్రమంలో వీజీఐఈఐ కళాశాల డైరెక్టర్ సాయిబాబరెడ్డి, ప్రిన్సిపాల్ పద్మజ, విద్యార్థులు తదితరులు పాల్గొన్నారు.

ACHIEVERS OF CSE 2020-21

Vidya Jyothi Institute of Technology (Autonomous) Hyderabad is proud to acknowledge the several achievements of CSE department students in various National and state level technical events. Including

- Paper/poster Presentation
- Hackathons
- Tech Quiz
- EXCITE
- Coding Competitions

CASH PRIZE RS.5000/-



1. Lalith Akash
2. K Ashritha,

Of III B.Tech CSE have won the Cash prize of Rs.5000/- in the national level Hackathon **SPECATHON-21**, organized by Dept. of CSE & IT at St. Peter's Engineering College-Hyderabad, in association with Supraja Technologies, on 29th-30th January 2021.

Dr. Diana Moses, HoD-CSE St. Peter's Engineering College and Mr. C Santosh, CEO Supraja Technologies presenting the award.



Mr. Venkateshwara Rao Jayasurya,
III B.Tech CSE Student
Served as Google Developer Student club Lead at VJIT
for Academic year 2020-21.

DEPARTMENT EVENTS

A webinar on

"Data Structures and Algorithms and Intro to Competitive Programming"

Developer Student Clubs
Vidya Jyothi Institute of Technology

CODECHEF
VJIT Chapter

CODING NINJAS

WEBINAR on

Importance of
DATA STRUCTURES & algorithms

and Intro to
COMPETITIVE PROGRAMMING

16th January 2021 | 4 PM

Speaker
Harsh Agarwal

2000+ on CodeChef,
ACM ICPC Regionalist,
Coding Ninjas

On 16th January 2021, at 4:00PM DSC-VJIT, CodeChef-CSE@VJIT in Collaboration with Coding Ninjas has organized a webinar on "Data Structures and Algorithms and Intro to Competitive Programming" for the students of VJIT to accelerate their learning and make them job ready for a career in Technology.

Speaker:

Mr. Harsh Agarwal,

A Competitive Programmer, a part of the founding team at GeeksforGeeks before joining Coding Ninjas, he has trained many students to land jobs in companies like Amazon, Microsoft, Flipkart, etc.

DSC Student Coordinator

Mr. Jayasurya Venkateshwar

III B.Tech-I-Sem CSE

A WEBINAR ON "OBJECT ORIENTED PROGRAMMING CONCEPTS"

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)
(Approved by AICTE, Permanently Affiliated to JNTUH, Accredited by NAAC & NBA)
Aziz Nagar Road, Hyderabad-75 Telangana.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
In association with CSI
Organizes a webinar on
"Object Oriented Programming Concept"
By
Syed Rehmath
Senior Software Engineer, GAP Inc.

Date: 01 June 2021 Time: 5:00pm

Vidya Jyothi Institute of Technology (Autonomous) Hyderabad, Department of Computer Science & Engineering is organized a webinar on

Object Oriented Programming Concepts in association with CSI Students Chapter for II B.Tech II Sem CSE students.

Resource Persons:

1.Mr. Syed Rehmath,
Senior Software Engineer,
Gap Inc India

2.Mr. Mohammed Afroz,
Associate Professor
Muffakhamjah College of Engineering-
Hyderabad

Date: 01 June 8, 2021

Time: 5:00pm-7:45pm

Superclass's Constructor is Always Invoked

Subclass's constructor may invoke any of superclass's constructors.

If none invoked explicitly, `super()` inserted at beginning.

```
public A() { } is equivalent to public A() { super(); }
```

```
public A(double d) { // some statements } is equivalent to public A(double d) { super(d); // some statements }
```

Lang: Introduction to Java Programming, Seventh Edition, © 2009 Pearson Education, Inc. All rights reserved. 0130012071

A WEBINAR ON “CHAT BOT DEVELOPMENT USING NLP”



Department of Computer Science & Engineering, Under ISTE student Chapter organized A webinar on “Chat Bot Development using NLP” Resource Person: Mr. Aleti Praneeth Reddy, Software Engineer, Capgemini, Hyderabad on 31/07/2021.

Webinar Aim:

- How to build a Chatbot with NLP,
- How to maintain the Chatbot.
- Benefits of chatbot in customer service
- How To automate and streamline customer service with NLP.

A TWO DAY WORKSHOP ON

“COMPUTATIONAL INTELLIGENCE AND BLOCKCHAIN TECHNOLOGY”



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)
Accredited by NAAC & NBA Approved by AICTE & Permanently affiliated to JNTUH
Aziz Nagar Gate C.B. Post, Hyderabad - 500 075, Telangana, India



Department of Computer Science & Engineering

A Two Day Workshop on

“COMPUTATIONAL INTELLIGENCE AND BLOCKCHAIN TECHNOLOGY”

During 9th – 10th July , 2021



Dr. Raghava Mutharaju

Assistant Professor, IIIT Delhi

TOPIC: Semantic Web Applications



Dr. Suresh Babu

Assistant Professor, NITW

TOPIC: Role of Blockchain in IoT

The Department of Computer Science & Engineering under AI+ Club had organized a Two Day Virtual Workshop on “Computational Intelligence and Blockchain Technology” during 9th & 10th July 2021.

Resource Persons:

1. Dr. Raghava Mutharaju, Assistant Professor, IIIT Delhi
2. Dr. Suresh Babu, Assistant Professor, NITW were the resource persons for the Two Day Workshop.



Scan to join

Programme Chair: Dr. B.Vijayakumar
Programme Coordinators: Dr. D.Aruna Kumari,
KSRK Sarma, S Divya

Join the Workshop using Google meet | meet.google.com/mpj-hnbz-hko

CHIEF PATRONS

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Correspondent VJES, MLC, Telangana
Mrs. S. Neelima
Joint Secretary, VJES

PATRONS

Dr. E. Sai Baba Reddy
Director
Dr. A. Padmaja
Principal

Dr. Raghava Mutharaju, IIIT Delhi, introduced to the participants of the workshop, the topic “Semantic Web Applications” on July 9th and Dr. Suresh Babu from NIT Warangal, enlightened the participants on the “Role of Blockchain in IoT”. A total of 50+ participants have joined the session from different regions of India.

A WEBINAR ON “NEXT GENERATION NETWORKS”



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)
Accredited by NAAC & NBA Approved by AICTE & Permanently affiliated to JNTUH
Aziz Nagar Gate C.B. Post, Hyderabad - 500 075, Telangana, India



Department of Computer Science & Engineering

Webinar On

“Next Generation Networks”

17th July , 2021 | Time: 2:30PM - 3:30 PM



Dr. Ramesh Babu Battula

Assistant Professor,

Malaviya National Institute of Technology, Jaipur

TOPIC: Next Generation Networks

The Department of CSE under AI+ Club had organized a webinar on “Next Generation Networks” under AI+ Club, on 17th July, 2021.

Objective of the webinar: to assist participants in the implementation of evolution to these future network architectures and technologies, in order to accommodate the requirements of a growing number of ICT-enabled services and applications.

He Highlighted the important developments in telecommunication core and access networks to be deployed over the next decade.



Scan to join

Programme Chair: Dr. B.Vijayakumar
Programme Coordinators: Dr. D.Aruna Kumari,
KSRK Sarma, S Divya

Join the Workshop using Google meet | meet.google.com/mpj-hnbz-hko

CHIEF PATRONS

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Correspondent VJES, MLC, Telangana
Mrs. S. Neelima
Joint Secretary, VJES

PATRONS

Dr. E. Sai Baba Reddy
Director
Dr. A. Padmaja
Principal

Resource Person:

Dr. Ramesh Babu Battula, Assistant Professor, Malaviya National Institute of Technology, Jaipur
His Research interests: Next-generation Networks, Security, 5G, 6G and etc

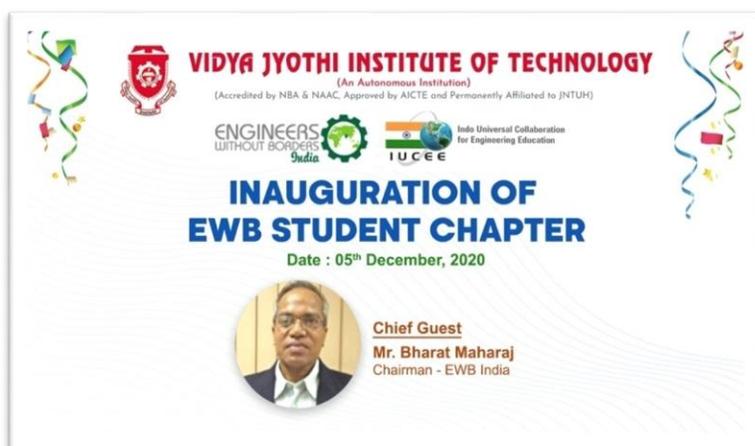
CENTRAL EVENTS



Starting a New Chapter

EWB India fulfills its mission by creating a network of chapters across the country and seed a movement of constructive voluntary work by engineering/non-engineering students and professionals in India.

Inauguration Ceremony:



On 5th December 2020, Vidya Jyothi Institute of Technology (VJIT) witnessed the inauguration of the VJIT Chapter of “Engineers without Borders” (EWB). EWB is a Global Organization with Active Chapters in 45 different countries with 16,800 active members. As the name suggests, it aims at providing technical expertise through engineering students and working professionals to solve social problems.

The Morning Session was presided over by VJIT Principal Dr. A. Padmaja, who elucidated a very motivating speech highlighting the need for more such organizations and also appreciated the efforts of the students who came together to form the Chapter. The faculty advisor, Mr. Y. Praveen Kumar, Assistant Professor CSE delivered the welcome address. The event witnessed the esteemed presence of Mr. Bharat Maharaj the Chairman, EWB India. He delivered an engrossing talk on the problems faced by the world and where engineers fit into the picture. He also emphasized the importance of time over money, rightly stating that “Time is more expensive than money” and how one should spend time rather than money to help others in need.

IUCEE Engineers without Boarders EWB (India) Chapter at VJIT

IUCEE EWB Student Chapters are led by 9 Students, guided by IUCEE

S.No.	Roll Name	Name	Email	Mobile
1	18911A05B0	Sapan Raj Mathur	sapan.mathur@gmail.com	9515001271
2	18911A05B3	Thejus Varma	thejusvarma12@gmail.com	7382371409
3	18911A05A4	Rithik P	rporandlacseb2@vjit.ac.in	8008430003
4	18911A05B1	Shaik Sadia	shaiksadia18@gmail.com	9347623306
5	18911A0598	Meghana Puttiga	maggi.puttiga@gmail.com	8179513801
6	18911A0591	Avez Siddique	avezsiddiqe18@gmail.com	7660894303
7	18911A0594	N. Shreya	shreya.noule@gmail.com	8978439825
8	18911A05H2	Saumya Gupta	saumya.1126@gmail.com	8106432110
9	18911A05A5	Srujan P	shanthisrujan19@gmail.com	9100498418

FACULTY PURSUING Ph D

S.No.	Name of the faculty	Year of registration	University Registered
1	Abdul Majeed	29/09/2021	PACIFIC University
2	P Lakshmi Priya	15/09/2021	SR University
3	Mr. M Venunath	09/08/2019	Pondicherry Central University
4	Mrs. B Sailaja	23/10/2018	JNTUH
5	Mr. Y Prabhu Kumar	12/7/2018	KLU
6	Mrs. P Swetha	12/7/2018	KLU
7	Mr. B Vikas	12/7/2018	KLU
8	Mrs. G Kalpana	20/08/2018	OU
9	Mrs. K Samatha	14/12/2018	ANNAMALAI
10	Mrs. CH Deepika	03/01/2018	KLU
11	Mr. Zaheer Ahmed	20/09/2017	VELTECH
12	Mr. Y Praveen Kumar	06/06/2017	VELTECH
13	Mr. P Rajashekar	10/04/2017	GITAM
14	Mr. K Srinivas	30/06/2017	JNTUA
15	Mr. B Srinivasulu	10/04/2017	GITAM
16	Mrs. A Swarna Reddy	2/07/2016	JNTUH
17	Mr. KSRK Sarma	20/06/2014	JNTUA
18	Mr. RRS Ravi Kumar	22/03/2013	GITAM
19	Mr. D Venkateshwarlu	09/09/2011	JNTUH

PATENT 2020-21

S.N	Name of the Faculty	Title	Patent No.	Date
1	Mr. Y. Praveen Kumar, Assistant Professor Sai Yuva Teja, Chaitanya, Dheeraj Reddy, Nishit Reddy	MONSTOGRain	202041049928	29/01/2021
2	P. Sandhya, Assistant Professor	An AI Based Framework For Realizing A Human Emotion Recognition System	202141025545	04/06/2021
3	P. Swetha, Ch.Deepika Assistant Professor	Method for Semantic Segmentation of Digital Image in Electronic Device Interface Using Machine Learning	202014048753	8/11/2020

FACULTY PUBLICATIONS

S.N	Author	Title	Journal Details
1	Dr. B Vijayakumar	Stock Market Trend Prediction using Supervised Machine Learning Algorithms	International Research Journal of Engineering and Technology (IRJET)
2	G.Kalpana	Integrating custom queuing strategy for enhancing security of a packet scheduling in wireless networks	International Conference on Recent Trends In Computer Science And Information Technology (ICRCSIT-20)
3	D. Venkateshwarlu	Filtering-Based Online Social Voting For Recommendation	JAC : A Journal Of Composition Theory
4	D. Venkateshwarlu	Efficient System For Maximizing Profit In Cloud Computing	JAC : A Journal Of Composition Theory
5	Dr. K. Ramesh Babu	A Decision Tree Based Recommended System For Tourism	JAC : A Journal Of Composition Theory
6	D.Venkateshwarlu	Nearest Keyword Set Search In Multi-Dimensional Datasets	JAC : A Journal Of Composition Theory
7	Dr. K. R. babu	Constrained Clustering Approach in Wireless Sensor Networks to Minimize the Energy Consumption	2020 IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security (iSSSC)
8	Dr. K. Ramesh Babu,	egovernance for citizen awareness and corruption mitigation	IHCI, Springer International Publishing
9	Dr. Kollapalli Ramesh Babu	Social inclusion and e-governance: A case study in alirajpur district, Innovations for Community Services	Springer International Publishing
10	T.Maanasa	Real time Cloud Computing Based COVID-19 Health Monitoring System using IOT with integration of Machine Learning Approach to Create Safety Environment	Annals of the Romanian Society for Cell Biology
11	Mohammed Zaheer Ahmed	A Weight Based Labeled Classifier Using Machine Learning Technique for Classification of Medical Data	International Information and Engineering Technology Association
12	Ravi Kumar R.R.S	Distributed deep Autoencoder for recommendation system	Turkish Journal of Computer and Mathematics Education
13	G.Kalpana	Machine Learning Model for Income Classification	National Conference for Women on Innovations in Science, Engineering and Technology(NCWISET)
14	Dr. D.Aruna Kumari	Challenges in Multilingual and Mixed Script Sentiment Analysis	6 th International Conference for Convergence in Technology (I2CT)

HUMAN RIGHTS IN DIGITAL ERA

In 21st - century this title became so popular and gained much attention as Human rights are universal, inherent and absolute. These rights are required to be protected in every aspect, either in physical or digital environment. Rights such as the right to privacy, which is one of the most highly, valued rights, if not safeguarded properly, pose a risk of being breached by different cyber entities. If we look upon the Issue of human rights in this digital era more closely, we will see that the digital revolution is one of the significant problems in the human rights context—intimidation, Harassment, etc. The Internet and various social platforms have provided people scope for people to put forward their opinions and opinions to be express themselves freely. But at the same time the Internet also has numerous doubtful aspects relating to human rights and the protections available to us against their violation due to enforcement difficulties and technological insufficiency. The protection of human rights in this digital age depends on the choices made and their interpretation regarding the modernization and improvement of existing laws. Global players whose actions impact the enjoyment of human rights, especially governments which claim to be defenders of human rights, should head in reaffirming of the international framework for human rights as core principle of safety, development and freedom in the digital environment of the 21st century. These organizations need to be held accountable and responsible.

When everyone works in mutual partnership to share best practises to curb violations of any type only then most effective solutions be can be found. Conventional human principles including privacy, dignity, equality and respect should be used as a pillar to direct our action in the digital age.

Privacy should be given importance, as other rights, such as free speech and expression, have been given importance. Once great importance was given to freedom of speech and speech, and this is necessary for the protection of the privacy in order to preserve human rights.

References:

[Human Rights in Digital Era \(legaldesire.com\)](http://legaldesire.com)

[HUMAN RIGHTS IN DIGITAL ERA \(flawsomelawyers.com\)](http://flawsomelawyers.com)

**Mr. KSRK Sarma,
Associate Professor
CSE Department, VJIT**

PLACEMENTS

Extramarks		Package: 13.5LPA
17911A0553	Tankala Praveen	
ACI Worldwide		Package: 8.5LPA
17911A05C2	Adabala Sunil	
Byjus		Package: 8LPA
16911A05K9	Bhaskar Isukapalli	
Wiley-Mthree		Package: 7LPA
17911A0561	Akanksha Bhaiyya	
17911A05F4	Madaboni Chetan	
Temenos		Package: 6.3LPA
17911A05J9	Bysani Prema Divya	
EPAM		Package: 6LPA
17911A0546	Potturu Rishika Chowdary	
17911A05A2	P Sai Siddharth	
ACS Solutions		Package: 5.16LPA
17911A0538	Minupuri Gouthami	
17911A05B6	Vallaboja Ranjitha	
17911A0561	Akanksha Bhaiyya	
17911A05M7	Mudigonda Sri Harsha	
17911A0517	Gadhe Harshitha	
17911A0564	Anumari Annapoorna	
17911A0554	Thati Savyasachi	
17911A05N0	Nuthi Samhitha	
17911A05N8	Pranitha Sirigiri	
17911A05H8	Yadava Krishna Shashank	
17911A0508	Bandi Nikhil Pavan	
ADP		Package: 5LPA
17911A0542	Neela Sai Teja	
17911A05D8	Gariga Divya	
17911A0534	Madineni Jitin Krishna	
17911A0596	Monangi Shruti	
17911A05P2	Sameer Desai	
17911A05J3	Annamaneni Bharath	
17911A05L7	Kodamagulla Kausthub	
Cognizant		Package: 4.5LPA
17911A0547	Rachoori Sai Priya	
17911A0566	Atheli Pranathi	
17911A05J9	Bysani Prema Divya	
17911A0598	N Kalyan	
17911A05J7	Bodige Arun Kumar	
Spring MI		Package: 4.5LPA
17911A0591	M Pavan Reddy	
17911A05D6	Edammagari Rishika	
17911A0507	Athira B	
Goldstone Tech		Package: 4LPA
17911A0548	Ramavath Pujitha	

Accenture:		Package: 4.5LPA
17911A05H3	Somanolla Sai Sree	
17911A0575	Boomanagari Charitha	
16911A0557	Votarikari Roopesh	
17911A0560	Yappuram Divya Sree	
17911A05P4	Shaik Ayesha	
17911A0539	Mummoju Aravindh Sai	
17911A05H0	Reddysetty Sriya	
17911A05G8	Rameshwaram B Satya Pramod	
17911A05F7	Mandali Sundar	
17911A05K1	Chanuwala Harishwar Reddy	
17911A05F2	M Gautam Sagar	
17911A05N9	Pulindindi Shyam Kumar	
17911A05M7	Mudigonda Sri Harsha	
Wipro		Package: 3.5LPA
17911A0534	Madineni Jitin Krishna	
17911A05A2	P Sai Siddharth	
17911A0559	Vithanala Phanindra	
17911A05K2	Chikka Mamatha	
17911A05J5	Ayesha Shaheen	
17911A0542	Neela Sai Teja	
17911A05J9	Bysani Prema Divya	
17911A0531	Kothapally Manohar Reddy	
Nagaroo		Package: 3.5LPA
17911A0521	Gunthala Pradyumna Reddy	
17911A0528	Kodi Sandeep	
17911A05D8	Gariga Divya	
Chegg India		Package: 3LPA
17911A0581	Gaddam Nikitha	
17911A05G2	Mohd Abdul Umer	
17911A05H2	S Bharath Reddy	
17911A0528	Kodi Sandeep	
17911A05C9	Pramod Chirra	
17911A05E1	Govindgari Arun	
17911A05C1	A Bhavana Sai Yadav	
Qspiders		Package: 2.4
17911A0585	Guntupalli Vishnu Vandith	
17911A05N3	Patel Shanthan Reddy	
17911A0573	Boddu Rachana	
17911A05P0	Reddapogu Supriya	
17911A05E0	Gourav Ariga	
17911A05P3	Sandiri Srikanth	
17911A05C5	Baddam Tejashwini	
17911A05M1	Lingareddy Anthony Madhuri	
17911A05N0	Nuthi Samhitha	
17911A05G6	Putta Shivani	

The Department of Computer Science & Engineering



Career awareness Webinar on "CAREER THROUGH GATE" is organized for the IV B.Tech GATE aspirant of VJIT on 25th June, 2021. The GATE - "Graduate Aptitude Test in Engineering" the country's most prominent and challenging exam.

Topic Covered:

1. Importance of the GATE exam
2. Basic Information about GATE
3. Opportunities after GATE
4. The PSUs which hire via GATE
5. Research possibilities



Gradeup Invites you to join

Career Awareness Webinar

Exclusive for VJIT, Hyderabad

Career through
GATE

(25th June, 2021 | 6:00 PM)

Impact of COVID-19 on student's career and how to be exam ready in the pandemic.



DISCUS
Your Information Place
CSE Department Newsletter



IoT Club



AI Club



Android Club



Google DSC



Web Club



Association for Computer Machinery (ACM)



Indian Society for Technical Education (ISTE)



Computer Society of India (CSI)

OUTCOME BASED EDUCATION

Department of Computer Science & Engineering

VISION

To produce the globally competent professionals in the field of Computer Science & Engineering

MISSION

- To provide state-of-the-art facilities in Computer Science and Engineering, through innovative teaching learning practices.
- To promote research and development in the frontier areas of Computer Science and Engineering and to work in interdisciplinary fields.
- To enrich students with discipline and high integrity to serve the society and to inculcate the spirit of ethical values and leadership abilities.
- To establish a collaborative environment between Industry and Academia.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO1: Enhance the employability of the graduates in Software industries/Public sector/Research organizations.

PEO2: Acquire analytical and computational abilities to pursue higher studies for professional growth

PEO3: Work in multidisciplinary project teams with effective communication skills and leadership qualities

PEO4: Develop professional ethics among the students and promote entrepreneurial abilities

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO1: The ability to design and develop algorithms to provide optimized solutions for societal needs.

PSO2: Apply standard approaches and practices in Software Project Development through trending technologies.

Programme Outcomes (POs)

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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