Dhanekula

Institute of Engineering & Technology

WE CREATE
WE STIMULATE
WE EMULATE

D I E T

TECHNICAL MAGAZINE

COMPUTER SCIENCE & ENGINEERING
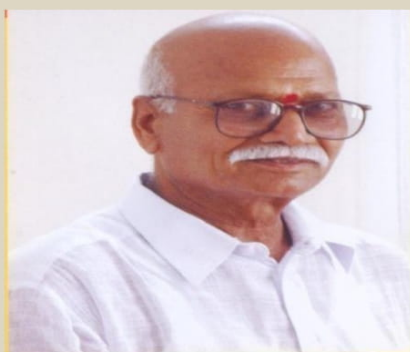
BYTES
2018-2019

DHANEKULA INSTITUTE OF ENGINEERING AND TECHNOLOG

Dhanekula Institute of Engineering & Technology, established in the year 2009 is the first of its kind Technical Institute founded by Sri Dhanekula Ravindranath Tagore, a visionary and a living legend. He is famous for his versatility and excellence in promoting various agricultural and industrial organizations and is known for his love and affection-uplifting the economically backward classes. Affiliated to JNTUK, Kakinada and approved by AICTE, it aims at providing a sound technical knowledge and broad vision to the technocrats of future as they are prepared for a successful tomorrow. Founded in the year 2009, the institution intends to fabricate proficient engineers to face the dynamic changes of the presentcentury.

The institute is located in a serene atmosphere with magnanimous buildings, state of the art laboratories and class rooms to meet the latest trends of teaching requirements in the area of technical teaching and learning. Well Qualified, experienced and dedicated staff who remain update with the latest developments in their fields is an additional asset to the college.

This world class institute with global standards offers courses at the Undergraduate level in five areas of engineering, at the Post Graduate level in two areas of engineering and at Diploma level in two areas ofengineering.

Administration

In recent years, a good deal of anxious attention has been paid, all over the world to the utter significance and direct influence of science and technology on our modern life style.Twentieth century is indeed identified as the age of science and Technology. Moreover, the progress of any country in the contemporary world depends entirely or solely upon the improvement made by it in the field of technology. In this context, engineering education plays a meaningful and substantial character and its role can not be excluded. We at 'Dhanekula' strive to provide you the best infrastructure and faculty with the sole aim of ushering excellence in engineering education.

I firmly believe that any technology is successful only when it is diffused through society-uplifting the world economy raising the percapita income of its people. Thus bringing the world class technology home is the ultimate aim of this institution fostering over all development of the students-moulding them into proficient, qualified and socially responsible engineering personnel.

Dhanekula Ravindranath Tagore Chairman, DIET

Twenty first century is indeed identified as the age of science and technology and the progress of the country depends entirely or solely upon the improvement made by it in the field of technology. In this context, I strongly hope that this institution with its quality conscious definitely plays a meaningful role in making the students ready for the latest Industrial requirements.

Dhanekula Bhavani Prasad Secretary, DIET

Dhanekula Institute of Engineering & Technology, the world class campus offers quality of education for its students to enhance their employability skills and Innovation among the students by inspiring fresh perceptiveness, creative thinking and firm conviction to achieve true success. With an aim to build futurefor the youth, the college aims to nurture budding talents in the field of engineering and technology as per industry needs. DIET believes in giving a complete education by concentrating on all the aspects of professional building and we have been continuously in the thought process of improving the quality of teaching by implementing various activities like seminars by eminent personalities ,language development, training in soft skills, communication skills, insisting on student discipline, and enthusing the students by encouraging them to participate in extra curricular activities like sports NSS,NCC apart from their academics. Dhanekula Institute of Engineering & Technology, this institute has been in the process of continuously training the entire faculty to maintain high standards of classroom delivery. Faculty Efforts are also in place for improving the student skills by offering some skill oriented courses for the students. We at DIET believe that honesty, hard work, and discipline together form the ladder for success and try to inculcate these habits in our students.

Dr. Ravi Kadiyala Principal, DIET

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Editorial & Design Team
Technical Review committee
Dr.S.Suresh HOD,Dr.A.Srinivasa Rao
Student Co-ordinators

K. Sai Varsha IVCSE, V.Usha IV CSE
K.Medha, II year CSE, J.Hemanth, II CSE
Faculty Co-ordinator
P.Sunitha,Asst.Prof

Department of Computer Science & Engineering

The mission of the department is to advance and enhance computer science engineering fundamentals to build the intellectual capital of students. The CSE Department Endeavour's to be an important resource centre for the development of computing systems and applications.

The Computer Science & Engineering (CSE) department is established in 2009, offers Undergraduate program (B. Tech.) in Computer Science and Engineering with an initial intake of 60 seats (during Academic year 2009-10) and an additional intake of 60 (120 seats during the year Academic 2010-11). This has truly department become the centre for learning with its excellent infrastructure and other facilities. The college is also having the M.Tech CSE program, from academic year 2012.

The department is having well qualified and experienced faculty members. The faculty is a perfect blend of different specializations in Computer Science and Engineering to impart their expertise in handling diversified

Students Achivements

Mr.K.Eswar Shesha Sai, Bering Roll no:158T1A0527,studying IV/IV B. Tech, CSE received ONE LAKrupees as Prize Money From Honorable chief Minister of Andhra Pradesh Sri N. Chandra Babu Naidu on 20th Sep'2018 for his presentation on topic "One Touch e-Governance " as part of Gnanabheri program, in the Category of Engineering. Its a proud moment for the entire "DIET Management, Principal, Faculty and Staff congratulated him on his occasion".

- ❖ Our 3rd yr students of CSE Participated in UR Fest 2K19 and won the 1st Prize in Tech-Synonyms
- ❖ Our 3rd yr students of CSE Participated in Dhanush 2K19 Fest and won the 2nd Prize in Paper - Presentation
- ❖ Our 3rd yr students of CSE Participated in Dhanush 2K19 Fest and Own the 2nd Prize in Code vita

168T1A0517	168T1A0560	168T1A0532	168T1A0536
Ch.Vijay Kumar UR Fest	M.Eswar Krishna Dhanush2k17	G.Raja Sekhar Dhanush2k17	G.Himaja (Dhanush2k17)

HOD of the Dept. Dr.S.Suresh appriciated the prize winners

Student Participation

It is proudly say that our final year student of K. Eswar attended conference at US. The Harvard college Project for Asian and International Relations (HPAIR) was founded to create a forum of exchange for students and young professionals to discuss and learn about the most important economic, political and social issues facing the Asia-Pacific region. Since 1991, HPAIR has organized 54 conferences in 12 different host countries, touching the lives of more than 32,000 students and young professionals. Join us at the 2019 HPAIR. Harvard College Conference at Harvard University in Cambridge

,Massachusetts. On 17th Feb ,2019 all the delegates from energy and environment sustainability are divides into teams to present there ideas. Our team gave a model using machine learning which reduces the food waste in food processing industry.

❖ It is proudly say that our final year student of cse G.Sai Venakata Akhil Qualified in GATE 2019 .Principal Dr.K.Ravi ,HOD Dr.Suresh appreciated that student.

Our Final year student **Mr. GOPISETTI SAI VENKATA AKHIL** **,Roll.No:158T1A0588**
Obtained **6th rank in AP-PGECT.** HOD & Faculty congratulated for his significant achievement.

Mr. GOPISETTI SAI VENKATA AKHIL also placed in Wipro.

It is proudly say that our Final year students of CSE gave very good pass percentage 93.39% of their final end semester exams. HOD of CSE Dr. S. Suresh and other faculty members are appreciated for their performance

IV/IV B. Tech Toppers

| B.K.S.Brahmini 85.5% | UppalapatiLalitha 85.1% | V.Usha 84.5% | K. NandiniDurga 83% | N.Rohitha 82.34% | Ch.GeethaMadhuri 82.17% |

ACADAMIC ACHIVEMENTS
Medals

It is proudly say that final year students got gold and silver medals for their academic performance, Management,Principal hod of cse appreciated the awardees.

K. Nandini Durga Gold Medal Winner

Ch. Geetha Madhuri Silver Medal Winner

PLACEMENTS

The software giant selected 30 candidates from the final year students of DIET till now for the Academic Year2018-19.The Management, Director, Secretary, Principal, HOD & Faculty congratulated the selected candidates on their superlative achievement.

S.No	Name	Roll No	Company
1	Lalitha. Uppalapati	15811A0549	Wipro
2	Bhargavi Munji	15811A0512	Wipro
3	Gopi Venkata Krishna.J	15811A0530	Wipro
4	Sneha Rajitha.Chintada	15811A0597	Wipro
5	G.Akhil	15811A0588	Wipro
6	Nekkalapu. Rohitha	15811A0578	HCL
7	Prakruti.Jampa	15811A0567	HCL
8	Geetha Madhuri.Ch	15811A0529	HCL
9	K.Nandini Durga	15811A0560	HCL
10	Bhargavi Munji	15811A0512	Infosys
11	Hima Bindu Bandreddi	15811A0538	Infosys
12	Roshini Kadiyala	15811A0579	Infosys
13	Chennamsetty Geetha Madhuri	15811A0512	V Soft
14	Govardhan Lankalapalli	15811A0529	V Soft
15	Durga Prasad Koyyani	15811A0531	V Soft
16	Gillelamudi Divya	15811A0526	V Soft
17	Nekkalapu Rohitha	15811A0522	V Soft
18	Bhavana Samboju	15811A0578	V Soft
19	Kavuri Jahnavi Kalyani	15811A0513	V Soft
20	Muppa Kushma	15811A0540	V Soft
21	Dhanumuri M.N.Vardhini	15811A0546	V Soft
23	Gopisetti Sai Venkata Akhil	15811A0557	V Soft
24	Paruchuri Sai Samyuktha	15811A0588	V Soft
25	N.Rohitha	15811A0578	Vee Technologies
26	Pravallika.Budupati	15811A0571	Amazon

27	Velagapudi Harika	158T1A0556	REGALIX
28	D.Sasi Pavan	158T1A0592	Efftronics
29	Sri Harsha Ala	158T1A05A3	CTS
30	Rohitha Nekkalapu	158T1A0578	CTS
31	Vemula Prathyusha	158T1A0570	CTS
32	Madhuri Chimata	158T1A0552	CTS
33	Mounika Parasa	158T1A0558	CTS
34	Mohana Harika Velagapudi	158T1A0556	CTS
35	Sai Venkat Akhil Gopisetti	158T1A0588	Atos Syntel
36	D.M.N.Vardhini	158T1A0557	Atos Syntel
37	Ch.Sowmya	158T1A0599	Atos Syntel
38	D.Sasi Pavan	158T1A0592	Atos Syntel
39	K.Sandhya	158T1A0590	Atos Syntel
40	Sk.Samarin Banu	158T1A0594	Atos Syntel
41	U.Anudeep	158T1A0505	Atos Syntel
42	Hareesh Kumar Tadapaneni	158T1A0533	Atos/Syntel
43	Mohana Harika Velagapudi	158T1A0556	Atos/Syntel
44	Sri Durga Sai Priya Kolagani	158T1A05A1	Atos/Syntel

List of Students Participated in Paper/Poster/ Workshop Presentation

S.No	Date	Name Of Event	Venue	Name Of Student	Award
1.	14/12/2018	Paper presentation	DIET	P.Rushitha Sri	Participation
2.	14/12/2018	Paper presentation	DIET	P.Jahnavi	Particpation
3.	04/01/2019	PPT	URCE	G.Rajasekhar	Participation
4.	02/02/2019 03/02/2019	Workshop	IIT-Tirupati	B.SaiVnekat	Participation
5.	02/02/2019 03/02/2019	Workshop	IIT-Tirupati	N.Sugun	Participation
6.	02/02/2019 03/02/2019	Workshop	IIT-Tirupati	K.Naveen	Participation
7.	2018	Game Development Program	APSSDC	R.Prasanna	Participation
8.	2018	Game Development Program	APSSDC	N.Manaswi	Participation
9.	28/05/2018 02/07/2018	C-Programming Course	IIT-Bombay	R.Prasanna	Participation
10.	28/05/2018 02/07/2018	C-Programming Course	IIT-Bombay	R.Prasanna	Participation
11.	28/05/2018 02/07/2018	C-Programming Course	IIT-Bombay	N.Lalitha	Particpation

12.	28/05/2018 02/07/2018	C-Programming Course	IIT-Bombay	V.KusumaPriyanka	Participation
13.	28/05/2018 02/07/2018	C-Programming Course	IIT-Bombay	S.Alekhya	Participation
14.	28/05/2018 02/07/2018	C-Programming Course	IIT-Bombay	N.Manaswi	Participation
15	15/02/2019 18/02/2019	Conference	U.S.A	K.Eswar Sesha sai	Participation

List of Students Awarded in other Technical Events

S.No	Date	Name of the event	Venue	Name of the student	Awards
1.	04/01/2019	Tech Synonyms	URCE	Ch.Vijay Kumar	I Position
2.	14/12/2018	Technical Quiz	DIET	P.Rushitha Sri	III position
3.	14/12/2018	Technical Quiz	DIET	S.Sai Priyanka	III position
4.	14/12/2018	Code Hunt	DIET	G.Himaja	II position

List of Students participated in other Technical Events

S.No	Date	Name Of Event	Venue	Name Of Student	Award
1	14/12/2018	Code Hunt	DIET	V.Kusumapriyanka	Participation
2	14/12/2018	Code Hunt	DIET	N.Lalitha	Participation
3	14/12/2018	Technical Quiz	DIET	U.Yasaswini	Participation
4	14/12/2018	Technical Quiz	DIET	P.SaiBhavya	Participation
5	14/12/2018	Technical Quiz	DIET	S.Alekhya	Participation
6	14/12/2018	Technical Quiz	DIET	R.Prasanna	Participation
7	21/02/2019	Technical Quiz	GEC	G.Pavan Kumar Reddy	Participation
8	14/12/2018	Block Chain Technology	DIET	P.SaiPriyanka	Participation
9	14/1/2019	General Awareness Challenge	VRSE	S.SaiPriyanka	Participation
10	14/1/2019	General Awareness Challenge	VRSE	P.Laharika	Participation
11	14/1/2019	General Awareness Challenge	VRSE	V.KusumaPriyanka	Participation

12	14/1/2019	General Awareness Challenge	VRSE	S.Bhanu Sri	Participation
13	14/12/2018	Nruthyam Group	DIET	P.Jahnavi	Participation
14	04/01/2019	Engineer KaMahaSangram	URCE	M.Eswar Krishna	Participation
15	04/01/2019	Engineer KaMahaSangram	URCE	G.Sai Raja	Participation
16	04/01/2019	Engineer KaMahaSangram	URCE	G.Brahma Reddy	Participation
17	04/01/2019	Engineer KaMahaSangram	URCE	BTR Aditya	Participation
18	04/01/2019	Engineer KaMahaSangram	URCE	A.Jahnavi	Participation
19	04/01/2019	Engineer KaMahaSangram	URCE	G.Niharika	Participation
20	04/01/2019	Engineer KaMahaSangram	URCE	Ch.Reshma	Participation
21	04/01/2019	Engineer KaMahaSangram	URCE	A.HemaBindu	Participation
22	04/01/2019	Code Royale	URCE	Ch. YesuNarayana	Participation
23	04/01/2019	Code Royale	URCE	A.Sivaram	Participation
24	04/01/2019	Code Royale	URCE	B.Simhadri	Participation
25	04/01/2019	Code Royale	URCE	B.Umanadh	Participation
26	04/01/2019	Code Royale	URCE	B.Jagadesh	Participation
27	04/01/2019	Code Royale	URCE	G.BhanuSekhar	Participation
28	04/01/2019	Code Royale	URCE	K.Nikhil	Participation
29	04/01/2019	Code Royale	URCE	K.Bhargav	Participation
30	04/01/2019	Code Royale	URCE	K.ChaitanyaSai	Participation
31	05/01/2019	Spot The Case	URCE	A.Sivaram	Participation
32	05/01/2019	Spot The Case	URCE	B.RatnaAditya	Participation
33	05/01/2019	Spot The Case	URCE	B.Jagadesh	Participation
34	05/01/2019	Spot The Case	URCE	G.BhanuSekhar	Participation
35	05/01/2019	Spot The Case	URCE	G.Rajasekhar	Participation
36	05/01/2019	Spot The Case	URCE	G.Sai Raja	Participation
37	05/01/2019	Spot The Case	URCE	J.Swajith	Participation
38	05/01/2019	Spot The Case	URCE	M.Eswar Krishna	Participation
39	04/01/2019	Tech Synonyms	URCE	J.Swajith	Participation
40	04/01/2019	Tech Synonyms	URCE	Ch.Manishsai	Participation

Student Publications

S.No	Author Name	Paper Title
1.	Mr. M. Ravikanth Sanagavarapu Lavanya Vemulapalli Sai Likhitha Bolem Bhavya Sri Koneru Mukesh	Analyzing human behavior for financial fraud detection
2.	Mrs. B. Swathi Uppalapati Lalitha Abdul Fazulunnisa Koneru Divya Sree Chalasani Jayanth	An efficient approach for password sharing using block chain technique
3.	Mrs. M. Ragini , Bandreddi Hima Bindu Yalamanchili Lakshmi Sai K Meher Mandeep Mahesh Sai Bellapukonda Gayatri Sruthi	Hand written digit recognizer
4.	P.Sunitha Bandla Kanaka Sri Brahmini Tulimilli Durga Bhavani Parasa Mounika Ananthaneni Haswanth	Revocable stockpile identity based encryption in cloudcomputing for unaissilable data sharing
5.	Mrs. M. Ragini Tadapaneni Hareesh Kumar J Gopi Venkata Krishna Kandlagunta Bhargavi Kancharla Harsha Vardhan	Smart Campus
6.	Mr. K. Sandeep , Koyyani Durga Prasad Velagapudi Mohana Harika Kamineni Eswar Sesha Sai Kilaru Bhargav Gangadhar	Self driving car using CNN
7.	Mr. K. Sandeep , L.Govardhana rao Muppa Kushma Kollati Himani Yelineedi Dorayya Chowdary	Automated tool to convert handwritten text image into text
8.	Mr. Y. Ashok , Chimata Madhuri Gandrapu Asha Bandaru Chaitanya Rekha Chekuru Aakash	Cloud log security for cloud forensics
9.	Ms. P. Sunitha Gopisetti Sai Venkata Akhil Muppalla Navya Tejaswi Devabathini Sai Jithin	Acquisition of secured data from cloud
10.	Mrs. CH. Padmini Veeramachaneni Usha V Teja Bala Krishna Shaik Samarin Banu Devireddy Chandrika	Smart License Plate
11.	Mr. P.V. Hari Prasad Mandava Sampath T Pavitra Sanjana M Yeswitha Chowdary	Privacy Protection based access control scheme in cloud based services

12.	Mr. V. V. R Manoj , Nekkalapu Rohitha Battula Ramyasri Kodali Nithya Chowdary Bodepudi Rohit	Efficient keyword aware representative travel route recommendation
13.	Mr. P. Jagadeeswara Rao , Jampa Prakruti Ganapaneni Vamsi Krishna Kasaraneni Sai Prathyusha Shiny Manda	Product Quantization based approach for approximate nearest neighbor
14.	Mrs. P. Swathi , Ala Sri Harsha Jampala Sri Sai Jyothsna Nadella Vinay Surapaneni Sai Dutt	Pragmatic revival of documents in cloud computing utilizing attribute based
15.	Mrs. G. Venkata Ramana , Gollapudi Sai Pranitha Sandati Renuka Mallarapu Pramod Kumar Valivarthi Sri Hari Varma	Smart Crop spraying System
16.	Mrs. M. Hima Jyothi , Darapureddy Sasi Pavan Vemula Prathyusha Chebrolu Sowmya Koneru Sai Varsha	IoT based smart parking system
17.	Mrs. K. Sandhya Rani , K Sri Durga Sai Priya Puppala Sri Ranga Gundlathoti Suryavathi Chennakesavula Deepthi	IoT based accident alert and real time vehicle tracking using GSM & GPSand E-Bus Pass
18.	Mr. M. Ravikanth , Paruchuri Sai Samyuktha Bolla Nithin Varre Sai Manoj Udayagiri Rajani	Kid's tracker using wearable for child safety
19.	Mrs.B.Swathi , Bandi Vishnu Priya Kanugamakula Sandhya B Sai Krishnakanth Movva Sasi Kala	Smart garbage monitoring system using internet of things
20.	Mrs. L. N. B. Jyotsna , Naru Swarnnaja Pasupuleti Sowjanya P Sai Nikhil Mandavalli Priyanka	An Efficient classification of plant disease detection using image processing

DEPARTMENT ACTIVITIES

Exploring practical learning @Skill Development Program in CSE

The Department of CSE, in association with UIF organized a 2-Day workshop Training Program on "Design Thinking " During 16th -17th August' 18. Dr.K.Ravi ,Principal of Diet, inaugurated the program in the presence of Dr.S.Suresh HOD& Prof of CSE, &Dr. A.Srinivasa Rao, and other faculty members & Student members Eswar, Gopi Krishna,Mehar and other students coordinated the event.

DESIGN THINKING WORKSHOP
organized by UIF Team under Department of Computer Science & Engineering
16th & 17th August 2018

Design Thinking is a method designers use in ideation and development, that also has applications elsewhere. The method describes a human-centered, iterative design process consisting of 5 steps—Empathize, Define, Ideate, Prototype and Test. Design thinking is useful in tackling problems that are ill-defined or unknown.
The session includes brainstorming, stokes, prototyping, Ted diet, Six thinking hats.
It is conducted for the third year students which helped them to make things in a creative way.

Real time learning @ Skill Development Program on Game Design

APSSDC conducted Skill Development on Game Design for the students on duration 27th Aug'2018 to

26th Sep'2018 is the art of applying design and aesthetics to create a game for entertainment or for educational, exercise, or experimental purposes. Increasingly, elements and principles of game design are also applied to other interactions, particularly virtual ones Game design creates goals, rules and challenges to define a board game, dice game card game ,role playing game, sport, video game, war game or simulation that produces desirable interactions among its participants and, possibly, spectators.

Academically, game design is part of game studies, while game theory studies strategic decision making (primarily in non-game situations). Games have historically inspired seminal research in the fields of

probability, artificial intelligence, economics, and optimization theory. Applying game design to itself is a currentresearchtopinmetadesign.
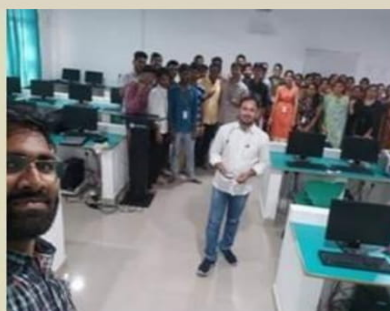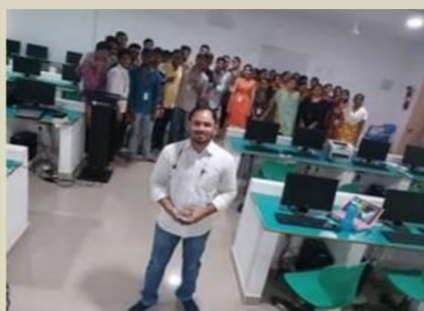
Real time learning @1 workshop on Ethical Hacking

The Department of CSE organized a workshop on "Ethical Hacking" for II year students during the period i.e. 29th Sep'18. Sri J.V.Vamsidhar, CTG Security Solutions & Cyber fox Technology, Vijayawada imparted Message on What is, Hacking purpose of ethical hacking,Need of hacking and applications and use of hacking.
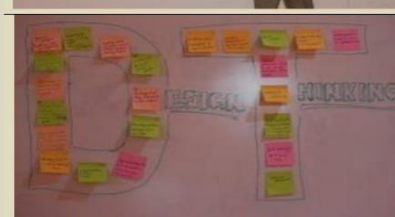

Real time learning @ 3 days workshop on AWS TECHNICAL ESSENTIALS

The Department of CSE organized a workshop on "AWS TECHNICAL ESSENTIALS " in Association with APSSDCfor II &III year students during the period i.e. 2nd jan-3rd jan &7th jan to 11th jan'2019. HOD of CSE and other faculty members coordinated the program.
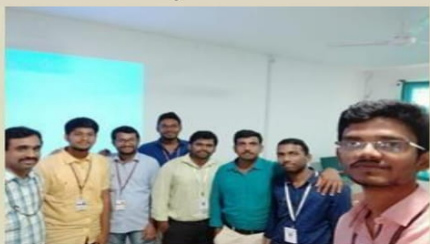

Exploring practical learning @Skill Development Program in CSE

The Department of CSE, in association with UIF organized a 2-Day workshop Training Program on "Design Thinking " During 10th -11th January'19. Dr. K. Ravi ,Principal of Diet, inaugurated the program in the presence of Dr. S. Suresh HOD& Prof of CSE, &Dr. A. Srinivasa Rao, and other faculty members &final yr Student members Eswar, Gopi Krishna, Mehar, Hareesh and other students coordinated the event.

Real time learning @ 5 days workshop on AWS TECHNICAL ESSENTIALS

The Department of CSE organized a workshop on "AWS TECHNICAL ESSENTIALS " in Associationwith APSSDC for II &III year students during the period i.e. 25th feb-27th feb &18th feb to 22nd feb 2019. HOD of CSE and other faculty members coordinated the program. This workshop will helps the students about to know the importance of cloud computing how they can store data in cloud andhow they can access the data in cloud environment.

Exploring practical learning @workshop on TEZ Sedi Bus Startup Boot camp

The College level Entrepreneurship development cell organized a 2-Day workshop Training Program on "businessplans" During 26th -27th february'19. Mr. Col B.S. Rao & Miss. Nanditha Sethi were the resource persons of that program. The resource persons address the students regarding startup Business plans & innovations. Based on the Business plans generated by students , The resource persons selected 2 teams (each team of 8 members) and offered them 6 months free Mentorship in Hydra bad which nearly cost 60K per each batch. Dr. K. Ravi ,Principal of Diet, inaugurated the program in the presence of all dept HOD's and other faculty members, are attend for the program and Student members Mr. Gopi Krishna, Mehar, and other students coordinated the event.

2ndInnovation Day

It is platform to support budding entrepreneurs' with start up or business idea's. Mr. Manish Vig founder of World1 solutions New Delhi. Mr.Tomoyuki Yamato Director World1 solutions Japan are the resource persons of this program. They gave suggestions for students regarding startups .'DT'(Diet Talks) was the major attraction for that program. After displaying the innovative idea's top 3 teams were selected among which 1st team was awarded with a scholarship of Rs.1 lakh from **Forbes Business School** and also the college management announced Rs.10k cash prize. Finally Resource Persons gave opportunity for the students with best innovative idea for visiting **Belarus(Europe)**

Project Expo

Students of final cse done projects on Internet Of Things : IoT is a concept of connecting smart devices through the Internet. Those smart devices can collect and exchange data between them through the cloud. They sense the real world using their sensors and perform the tasks using their actuators(like motors). So, It will be helpful to other beginners too. hence students explained that, what is IoT, how to start, where to start, how the run IoT based systems etc., what are the prerequisites, and how to move to the next level, etc...Dr. K. Ravi principal, Dr. Suresh HOD CSE and other faculty members has visited that project Expo.

Dhanush 2K18

Two day National Level Fest was conducted at college level during the period of 14th&15th of dec 2018. Dept of CSE conducted several technical and non technical events. So many student of several Engineering colleges were participated actively and won the prizes.

Paper Presentation

Poster Presentation

Technical Quiz

Parents Meet

Parents Meet was held on 23rd,July.The purpose of this meet is to help the parents realize their respective roles in promoting integrated education and to discuss the progress of their children.

Teachers day celebrations

Teachers Day Celebrations @CSE: A moment of joyful rededication...

CSE celebrated Teachers Day with traditional fervor and gaiety by paying rich tributes to Master Teacher & Statesman, Dr. Sarvapalli Radha krishnan on his 129th Birthday on 5th Sept'18. Our Beloved principal Dr.K.Ravi Presented Best Teacher Award to Faculty of CSE Department Mr V.V.R.Manoj in recognition of their meritorious service to teaching

Orientation Program for Freshers Dawn of an exciting journey !!!

The newly admitted students of B.Tech Programme of the A.C.Y.2018 were welcomed into the portals of our beautiful center of learning in an impressive induction program on 1stSep'18. The program was inaugurated by Sri.Dr.S.Suresh HOD& Prof of CSE, Sri.Dr.A.Srinivasa Rao, HOD gave an exhaustive and insightful orientation to the inductees. Am ong others, faculty and staff as well as students attended the program Freshers day Celebrations.

Annual Day Celebrations

Dhanekula Institute Of Engg &Technology celebrated the annual day on 2nd march 2019 in open auditorium. The event was inaugurated by Mr. Arja Srikanth IRS in the companionship of Mr. K.V.S. Baba ,chairman managing director, power system operation corporation sytem, New Delhi ,Sri Dhanekula Ravindranath Tagore Chairman, Sri Dhanekula Venkata Bhavani Prasad Secretary & Correspondent ,Sri D.K.R.K. Ravi Prasad Addl. general manager BEL Machilipatnam, Dr.K.Ravi Principal , DIET.

Dhanekula Ravindranath Tagore garu the Chairman of Dhanekula institute of engineering and technology handing over the prize to the winners in the eve of Annual Day 2k19. There are many number of cultural programs that are conducted on that day and department of CSE had triumphed many awards.

Farewell Day Celebrations

3rd year students of cse gave Farewell for final year students on march 15th 2019. final year students share their lot of academic experiences.

Industrial Visit:--

Final year students have went for Industrail Visit to NRT,Mangalagiri.They visited Signum FiberX Company which is a based on BroadBrand Services

PhyCARE is a leading healthcare management companyspecializing in revenue cycle management solutions with a primary goal to optimize revenue and ensure compliance by bridging high-end technology

Dept. of CSE Organized a local industrial visit for 2 nd yr students of cse to visit efftronics on 24th Nov'18

3rd yr CSE students went for 1day industrial visit on 24-12-2018 to COCO-COLA Company which is located at Mangalagiri in GUNTUR Dt

STUDENT ARTICLES

DevOps

DevOps (a clipped compound of and development" "operations") is a software engineering culture and practice that aims at unifying software development(Dec) and software operation (Ops). The main characteristic of the DevOps movement is tostrongly advocate automation and monitoring at all steps of software construction, from integration, testing, releasing to deployment and infrastructure management. DevOps aims at shorter development cycles, increased deployment frequently, and moredependable releases, in close alignment integrate data engineering, data integration, data quality, data security, and data privacy with operations. By **Jahnavi Kalyani, IVCSE,Roll.No:158T1A0540**

INDIA RAMPING UP IN DIGITAL EDUCATION

India isn't far behind China in its eagerness to embrace digital-based education. India's digital learning market was estimated at $2 billion USD in 2018. Three factors fuel this technology-based transformation. The first is robust demand, generated by over two million schools, 35,000 colleges, and 40 million seats in vocational training centres; the need for smart classrooms has never been greater. Schools in tier two and tier three cities are increasingly adopting the latest classroom technologies. There's also heavy policy support, with the Indian government planning to liberalize the setup of digital classrooms through various government initiatives. The goal here is to grow the digital education market. And finally, there's the impetus of FDI (Foreign Direct Investment). From 2000 to 2018, more than $1.3 billion USD FDI has been pumped into India's education sector, with most investment focusing on digital and tech-related initiatives. By **Y.Lakshmi Sai, IVCSE,Roll.No:158T1A0548**

IMPALA

Impala is an excellent choice for programmers for running queries on HDFS and Apache HBase as it doesn't require data to be moved or transformed. Impala does runtime code generation for "big loops" using llvm.Impala avoids start up overhead as daemon processes are started at boot time itself, always being ready to process a query. Impala have many features, some of them are Recognizes Hadoop file formats, text, LZO, Sequence File, Avro, RCFile and Parquet. Supports Hadoop Security. Fine-grained, role-based authorization with Apache Sentry. Impala responds quickly through massively parallel processing. By **U.Bindhu Madhavi, IVCSE,Roll.No:158T1A0518**

CRYPTOCURRENCY

A Cryptocurrency is a digital asset designed to work as a medium of exchange that uses strong cryptography to secure financial transactions, controlthe creation of additional units, and verify   the   transfer Of assests in centralized banking and economy system such as the Federal Reserve system corporate boards or govt control the supply of currency by printing units of fiat money or demanding additions to digital banking ledgers. In case of decentralized cryptocurrency, companies or governments cannot produce new units, and have not so far provided backing for other firms, banks or corporate entities which hold asset value measured in it. By **D.M.N.Vardhini, IVCSE,Roll.No:158T1A0557**

Digital Twin

Digital twin is another trendy concept that represents the convergence of physical and the virtual world. Digital twin assists in the pairing of the virtual and physical world and allows data analysis and to be future ready for problems before they even occur, develop new opportunities, prevented own time. **By G.Vamsi Krishna, IVCSE,Roll.No:158T1A05B2**

Deep Learning

Deep Learning is another emerging trend and is a subfield of machine learning algorithm inspired by artificial neural networks. This emerging technology learns through an artificial neural network which acts like a human brain and interprets business problem just like a professional human mind would do. Deep learning algorithms do not need the assistance of a human programmer for data analysis and interpretation. Deep learning is applied to customer experience, language recognition, computer vision, sentiment bases news aggregation, robotics and many more. By **V.Prathyusha,IV CSE**

Networking Fabric

Networking fabric that is indispensable to any business organisation is the layout of how the computing, software components and networking of a data center integrate together to deliver IT services.SDN(Software –Define Network) protocols which together weave a network hardware, software, and other services connecting users, data, and applications together in sync with the business enterprise objectives and goals. By **B.K.S.Brahmini, IVCSE**

Server less Computing

Server less computing as the name suggests, allows you to build and run applications and services without thinking about servers. Through server less computing, networking infrastructure and operating services are provided on cloud servers thus saving on costs and giving businesses a better software development environment. Amazon Web Services offers server less computing through AWS Lambda and Amazon API Gateway interfaces By **D.Jithin, IVCSE**

NaturalLanguage Generation

What if technology translates data into a written narrative? Surprised! That's exactly what Natural Language generation (NLG) algorithms do. Wordsmith is a powerful natural language generation platform that collaborates with Zapier (a web-based service allowing end users to integrate hundreds of apps like Gmail, JIRA, Sales force, Slack without writing any code) to write content based on data pulled from a cloud data source. By **P.Sri Ranga, IVCSE**

What exactly is Java Script??

JavaScript, an object scripting language which is used in web pages along with markup language HTML. JavaScript is very popular and adopted universally by every web browser for its support which allows dynamic content to get execute in a webpageAn HTML page is a static one and without JavaScript it would be static completely. JavaScript can make the website more interactive..JavaScript not only supports web pages but also supports external applications like PDF documents, running widgets, supporting for flash applications etc. JavaScript has emerged in web industry like a boom and if you look at the current web scenario there are no web technologies that are not using JavaScript.JavaScript stands unique as it brings out all the special functionalities in the client's browser instead of the site's server. The role of JavaScript can never be denied as JavaScript can act as both object oriented language and procedural language. By **Md.Inamulla,3ʳᵈ CSE**

What is AJAX??

Ajax is not a programming language or a tool, but a concept. Ajax is a client-side script that communicates to and from a server/database without the need for a postback or a complete page refresh. The best definition I've read for Ajax is "The method of exchanging data with a server and updating parts of a web page – without reloading the entire page." Ajax itself is mostly a generic term for various JavaScript techniques used to connect to a web server dynamically without necessarily loading multiple pages. In a more narrowly-defined sense, it refers to the use of XmlHttpRequest objects to interact with a web server dynamically via JavaScript. **Benefits of AJAX:**There are mainly 4 benefits of AJAX in web applications.**Making Asynchronous Calls**: Ajax allows you to make asynchronous calls to a web server. This allows the client browser to avoid waiting for all data to arrive before allowing the user to act once more.**User-Friendly:** Because a page postback is being eliminated, Ajax enabled applications will always be more responsive, faster and more user- friendly.**Increased Speed:** The main purpose of Ajax is to improve the speed, performance and usability of a web application

Cloud Computing

What is Cloud Computing?

Cloud is nothing but someone else PC. In detail, Cloud computing is the on-demand delivery of compute power, database storage, applications, and other IT resources through a cloud services platform via the Internet with pay-as-you-go pricing. Whether you are running applications that share photos to millions of mobile users or you're supporting the critical operations of your business, a cloud services platform provides rapid access to flexible and low-cost IT resources With cloud computing, you don't need to make large upfront investments in hardware and spend a lot of time on the heavy lifting of managing that hardware. Instead, you can provision exactly the right type and size of computing resources you need to power your newest bright idea or operate your IT department. A cloud services platform, owns and maintains the network-connected hardware required for these application services, while you provision and use what you need via a web pplication.

By **U.LakshmiBhavani, 3ʳᵈ CSE**

shells and similar environments for programming languages, and is very characteristic of scripting languages.[1]
Contents

Oerview:
In a REPL, the user enters one or more expressions (rather than an entire compilation unit) and the REPL evaluates them and displays the results. The name read– eval–print loop comes from the names of the Lisp primitive functions which implement this functionality: The REPL of CLIM, SLIME, and the Symbolics Lisp Machine can also read back unreadable objects. They record for each output which object was printed. Later when the code is read back, the object will be retrieved from the printed output.

Lisp specifics Implementation
To implement a Lisp REPL, it is necessary only to implement these three functions and an infinite-loop function. (Naturally, the implementation of eval will be complicated, since it must also implement all the primitive functions like car and + and special operators like if.) This done, a basic REPL itself is but a single line of code:

```
(loop (print (eval (read))))
```

One possible implementation of eval is as a recursive interpreter that acts on the Lisp data structure created by using the function read to read a Lisp form as an s- expression. Another possibility is to it.By **K,Shiva Kumar,2nd CSE**

5 Most Use full Tools for Programmer and Developer

5 Useful tools for Coders:
Programming can be a very hectic task, especially if you are handling a complex project. Sometimes even small projects can give you a hard time. Have you ever found yourself at the verge of giving up in the middle of a project?

1. **Devdocs.io**:This is API documentation for all the popular programming languages. It combines different API documentation into one powerfultool. It also works on different frameworks of programming languages. The tool has an instant search feature that you can use to locate any code snippet you want. You can also use it when offline.

2. **Glitch.com** :Glitch is a versatile tool that allows programmers to do different actions. You can use it to create web apps in the browser. If you want to see similar projects that other people have made, you can simply import GitHub repos. It will be much easier to remix those apps hence shortening the development process.

3. **Codeply.com** :Code ply is an ideal tool for front-end developers. It can help you to build responsive layouts using Bootstrap. It also has the Semantic UI and CSS tools both of which are important for front end development.

4. **Babeljs.io** :The tool is best suited for JavaScript developers. It can transform your modern JavaScript code so that they become compatible with the older browsers.

5.   **Httpie.org** :This is a command-line tool that programmers use to make HTTP requests to the web servers and also to the RESTful APIs. The tool is regarded as a simpler version of CURL thanks to its capability.
By K.DHANUNJAY RAJU,2nd CSE

Chat bots

Did you ever thought that a machine speaks to us just like a human, Is it possible? Yes, It is possible . The best example for this is Google Assistant, Siri, Cortina, etc.., And these applications work on the technology called Cognitive Computing, chatbots is a part of Cognitive Computing. Now a days the things became easy, you can build and train your own cognitive model (chat bot) using some services like IBM Watson, Dialog flow, etc..,

Let us start building our own Chat Bot with IBM Watson Conversation,

1) Blue mix Registration:

(NOTE : If you already have Blue mix registration jump to step 2.)

Go to https://www.blueix.net and click on "Create a free account" . Fill out the form, and click on "Create Account". You will receive an email form confirmation, check it out. Open the email sent, and click on the link to confirm. Click on the "Confirm Account". Your account has been confirmed successfully. Click on the login and enter your credentials. As soon as you login in the system, you have to create an organization name, for instance your name, the name of your company, etc, and click on "Create".

The second step before you start your first application, consume a service on Blue mix you have to create a space, a space is one way to organize yours projects, and configure teamwork according to area or environment. For now let's create a space, for example "Dev", and click "Create". That's it! You're ready to go! Click on "I'm ready" and let's start our first app. That's your first screen, it's your blue mix dashboard. For now, click on "Catalog".

BOT

Go to Watson group (left side), and click on Conversation. As most of all service on Blue mix in this screen you have a description about the service, business model and a link to detailed documentation. Change the last part of the name of service to "-about me". It's not necessary, but it will help me us find our service easily.

Here you go!! Now you have a Watson Conversation for you. This is a service panel, where there is the service credentials and a button to open a tool. So, let's open our tool and teach Watson about our bout. Click on "Launch Tool" button.

Now you need to create a workspace, which is like a knowledge domain, or the space for a specific area which is intend to develop a Bot, for instance

"Support area" or "Customer

Attendance Service", etc. In this case as the proposal is develop a bot to answer about ourselves. Click on "Create a Workspace. By the way, the service bring a bot exem plo, "Car Dashboard". Name it "About me", or as you prefer, and choose the language, in this case "English". Click on "Create". Inside your workspace, you need create yours intents. Intents is identify according to the intention of the user target, for instance, if we were creating a "disk Pizza", one intention could be "Do a order" or "Ask a pizza", and for a instance we have give at least 5 phrases to Watson learned the standard, so a intention has a group of possibilities of user interact with your bot, which will have a response for this group. Let's click on "Create New".

In the column "Intent name", insert "who am i", the "#" the system include automatically, again this name is a classification for a group of possibilities that users normally use to interact when has this intention, ok? As per mentioned previously, include at least 5possibilities, could be more, but the recommendation is about 10.

Include the examples above, or as you prefer. Have in mind that is not necessary include all variations, as Watson work with taxonomy and understand the standard. Click on the first line, type the first example, and type enter to jump the next, do the same until your reach the last one. Then click "done" button to conclude this intention. Click on "Create new" to create the next intention as the following:

Don't forget to click on "Done" when you finished. Go to the next one.

- Click on "Create new" and create the next one as the following:

- Click "done" when you finished. Click on "Create new" to create an intention to respond about what you do.

- Click on "Done" and let's go to create the last one to respond about your hobby, so what do you like to do in your free time.

- Click "Done" and let's go to entities. Click on "Entities" as showed in the screen above.

Now you are going to create entities. An entity represents a class of object or a data type that is relevant to a user's purpose. By recognizing the entities that are mentioned in the user's input, the Conversation service can choose the specific actions to take to fulfill an intent.

- Click on "Create new" and follow the example below.In this example you are creating a entity to be specific for responses

- "on this case you intention and entities, but in case the user ask: "What do you like to do?", it's more generic, so your answer must be more generic as well. Attention: For this lab keep Fuzzy Matching "off".
  Entity has a name and a group of possibilities, and for each possibility you can add synonyms, once Watson read the correct word to captured entity.
  Type "sport" on field Entity (@ is included automatically by the system), then include in the list above the values above, as the listed above, and click "Done".

  That is it for entities. Now let's create our dialog. Click on "Dialog" as shown above.At this point you are prepared to complete your bot, creating a dialog flow, which will be based on tensions and entities you created. Click on "Create" and follow the nest steps. The system generate automatically 2 nodes, "Welcome" that is the first node executed by the service in the first requisition, such as "Hello, How can I help you?", and "Anything else",which is the last node verified condition, that means no one the flow dialog no one of the node of this flow has attended the conditions. Let's include a node to if the intention fo the user is greetings, in this case you will create a specific response for that.
  Tip: Click I the border of a node to have the options to add more nodes in the "+" signalClick in the "+" signal below "Welcome" node. Include in the first field the name for this node (it's not mandatory). In the field if, where you can validate a condition based on Intention, or Entity, or context variable, or a combination of them. In this case type "#", wait the system shows the list of intentions,

  so click on "greetings", Go to Responses and add the following response.
  Click in the "x" signal on upside right to close this node, and click in "+" below of greetings node.
  Name it as Goodbye, and include #goodbye in the condition, so go to the response and include the response, as the following.
  Once again click on "+" above Goodbye node.
  Include the node to respond to the #what do you do intention, as shown above. And create another one for #who am i as the screenshot below:
  Create another node for # hobby intention as the following, but this time keep the response empty, because you will use another technique to be specific, once you created entities for
  this intention.
  Click on the signal "+" in the tight side of node "Hobby".

  Name this node as Soccer, and add @sports: Soccer in the condition, and the response, which is specific for soccer. Feel free to change the response according to you. Now we go include other node below soccer (click on "+" signal below soccer and so on), to treat other entities sports as the following: For Bike: For Tennis: For football:

  In case the user do not mentioned no one of the entities above, we need to have a generic response for that, so you have to include a "anything _else" method, as the following:

  Ok! You already have all the nodes you need, but you have to n form to Watson to entry in the entities condition when the #hobby condition ne true. Go back to the #hobby node and click on icon "Jump to" (third one in the bottom of node), as shown below:
  The system will show the following information in a green bar, that means it is waiting you indicate for where it have to jump.
  Click on "Soccer" node, and the system will show 2 options as the following:
  click on "Go to condition" button. The screen will looks like as the following:
  That's it! Now let's test it and learn more and more. Click on "..." bottom in the corner in the right side above. Talk to it!
  Congratulations!! Now we can plug this service in any channel as you want, such as Face book messenger, Telegram, slack, etc.
  3) Plug your bot to a web page :
  Go to Git Hub page, case you do not have a account create one.https://www.guthub.com
  Create a app on Blue mix and clone a github source code. Back to Blue mix catalog and create "Continuous Delivery" service, as the following:
  Click on "Continuous Delivery service" and go the next page. Change the name as shown above and click on

  Create" button.

  Click on "Start here" over "Start from tool chain template" Click on "Simple Cloud Foundry tool chain" service. Open a new browser tab and open https://www.github.com, and create an account if you do not have.

  Fill out the fields and click on "Sign up for Git Hub" and follow the steps to create your account. As soon as you have created your account go to the URL:
  https://www.github.com/sergiogama/chatbot (Consider this one instead of /ibm - dbg-chat) Click on
  "Fork" up right in the screen as the following:
  Now you have a copy of the web front end for your chat bot, as the following:

  Copy URL and Back tp blue mix browser tab.
  Change the name of "Toucha in Name" and paste the URL copied previously on "Source repository URL" field, and click on "Create" Button. (Use /chatbot instead of /ibm-dbg-chat)

Click on "Eclipse Orion Web IDE". Open the folder tree in left side and open bot.js file, as the following: Now let's change the code to insert your Watson Conversation credentials, in lines 26, 27and 32, in the right side. Back to browser tab of your conversation, and click on menu icon in up left side, as the following:

Click on "Deploy" option. In the next screen you have the information need as the following:

Copy the credentials and work space _id and back to Dev Ops browser tab. Change the code as the following:
Now, open manifest.yml file in the left side pane, and change the host name as the following:
Tip: change to your name, but pay attention as this host name will be part of a public domain. In the example below will be https://ibm-dbg- sergiogama.mybluemix.net

Deploy your chat bot, just click on "Run" icon as shown above. Wait 1 to 3 minutes, until the bullet comes green again, as the following:

As developer click on the icon as shown above, cross the finger, and…inform to Watson to entry in the entities condition when the #hobby condition ne true. Go back to the #hobby node and click on icon "Jump to" (third one in the bottom of node), as shown below:

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By **Y. Lakshmi Sai, (158T1A0548),U. Bindu Madhavi (158T1A0518),IV CSE-A**

GIT

Git is an **Open Source Distributed Version Control System**. Now that's a lot of words to define Git

Let me break it down and explain the wording:

- **Control System:** This basically means that Git is a content tracker. So Git can be used to store content—it is mostly used to store code due to the other features it provides.

- **Version Control System**: The code which is stored in Git keeps changing as more code is added. Also, many developers can add code in parallel. So Version Control System helps in handling this by maintaining a history of what changes have happened. Also, Git provides features like branches and merges, which I will be covering later.

- **Distributed Version Control System**: Git has a remote repository which is stored in a server and a local repository which is stored in the computer of each developer. This means that the code is not just stored in a central server, but the full copy of the code is present in all the developers' computers. Git is a Distributed Version Control System since the code is present in every developer's computer. I will explain the concept of remote and local repositories later in this article.

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Why a Version Control System like Git is needed

Real life projects generally have multiple developers working in parallel. So a version control system like Git is needed to ensure there are no code conflicts between the developers.

Additionally, the requirements in such projects change often. So a version control system allows developers to revert and go back to an older version of the code.

Finally, sometimes several projects which are being run in parallel involve the same codebase. In such a case, the concept of branching in Git is very important.

Let's get started on using Git now

Rather than mentioning all the concepts at once, I will explain the concepts of Git through an example so that it is easier to follow.

Download git

This link has details on how to install Git in multiple operating systems: https://git-scm.com/book/en/v2/Getting-Started-Installing-Git

Verify if Git is installed by using the following command in the command prompt: git --version

Create your local Git repository

In your computer, create a folder for your project. Let's call the project folder

simple-git-demo.

Go into your project folder and add a local Git repository to the project using the following commands:

cd simple-git-demo
git init

The **git init** command adds a local Git repository to the project.

Let's Add some Small Code now

Create a file called **demo.txt** in the project folder and add the following text into it:

specific programming language.

Committing is the process in which the code is added to the **local repository**. Before committing the code, it has to be in the **staging area**. The staging area is there to keep track of all the files which are to be committed.

Any file which is not added to the staging area will not be committed. This gives the developer control over which files need to be committed.

Staging

Use the following command for staging the file:

git add demo.txt

In case you want to add multiple files you can use:

git add file1 file2 file3

If you want to add all the files inside your project folder to the staging area, use the following command:

git add .

Use this carefully since it adds all the files and folders in your project to the staging area.

Committing

Use the following command to commit the file:

git commit -m "Initial Commit"

Initial Commit" is the commit message here. Enter a relevant commit message to indicate what code changes were done in that particular commit.

Git Status and Git Log

Now modify the demo.txt file and add the following snippet:

Initial Content
Adding more
Content

Status

Use **git status** to find out information regarding what files are modified and what files are there in the staging area- it shows other information as well, which we can ignore for now.

Use the following command to see the status:

git status

The status shows that demo.txt is modified and is not yet in the staging area.

Now let us add demo.txt to the staging area and commit it using the following commands:

git add demo.txt
git commit -m "demo.txt file is modified"

Log

Use **git log** to print out all the commits which have been done up until now. The command used for this is:

git log

The log shows the author of each commit, the date of the commit, and the commit message. by G.Akhil, IV CSE

Indoor location identification technologies for real-time IoT-based applications: An inclusive survey

The advent of the Internet of Things has witnessed tremendous success in the application of wireless sensor networks and ubiquitous computing for diverse smart-based applications. The developed systems operate under different technologies using different methods to achieve their targeted goals. In this treatise, we carried out an inclusive survey on key indoor technologies and techniques, with to view to explore their various benefits, limitations, and areas for improvement. The mathematical formulation for simple localization problems is also presented. In addition, an empirical evaluation of the performance of these indoor technologies is carried out using a common generic metric of scalability, accuracy, complexity, robustness, energy-efficiency, cost and reliability. An empirical evaluation of performance of different RF-based technologies establishes the viability of Wi-Fi, RFID, UWB, Wi-Fi, Bluetooth, Zig Bee, and Light over other indoor technologies for reliable IoT-based applications. Furthermore, the survey advocates hybridization of technologies as an effective approach to achieve reliable IoT-based indoor systems. The findings of the survey could be useful in the selection of appropriate indoor technologies for the development of reliable real-time indoor applications. The

By Mahammed Rehana, III/IV B.Tech

A Survey on malware analysis and mitigation techniques

In recent days, malwares are advanced, sophisticatedly engineered to attack the target. Most of such advanced malwares are highly persistent and capable of escaping from the security systems. This paper explores such an advanced malware type called Advanced Persistent Threats (APTs). APTs pave the way for most of the Cyber espionages and sabotages. APTs are highly sophisticated, target specific and operate in a stealthy mode till the target is compromised. The intention of the APTs is to deploy target specific automated malwares in a host or network to initiate an on-demand attack based on continuous monitoring. Encrypted covert communication and advanced, sophisticated attack techniques make the identification of APTs more challenging. Conventional security systems like antivirus, anti-malware systems which depend on signatures and static analysis fail to identify these APTs. The Advanced Evasive Techniques (AET) used in APTs are capable of bypassing the stateful firewalls housed in the enterprise choke points at ease. Hence, this paper presents a detailed study on sophisticated attack and evasion techniquesused by the contemporary malwares. Furthermore, existing malware analysistechniques, application hardening techniques and CPU assisted application security schemes are also discussed. Finally, the study concludes by presenting the System and Network Security Design (SNSD) using existing mitigation techniques

By P. Lakshmi Chandana,III/IV B.Tech

A comprehensive taxonomy of schemes to detect and mitigate black hole attack and its variants in MANETs

Mobile Ad hoc Network due to its intrinsic properties of mobility, infrastructure-less working and vulnerability of underlined standard routing protocols is exposed to various packet drop attacks such as blackhole attack, grayhole attack and co-operative blackhole attack. These attacking nodes participate actively in the route establishment process and when a path is established between two end nodes through these nodes, these nodes drop the data packets according to a pattern related to the type of attack. So, security of the network communication is a very critical issue and must be handled with greater efficiency and effectiveness. A lot of research has been carried out to detect and mitigate the effects of blackhole attack and its variants in MANET. In this paper, Different variants of blackhole attack are discussed along with shortcomings of present literature. We present a comprehensive taxonomy of the mitigation and detection mechanism along with summarization and comparison of some published work related to those categories. There are in total sixteen different categories of mitigation mechanism and we have reviewed and summarized ninety one research works related to the presented categories on various parameters like overhead, base protocol, modification in base routing protocol, detection type, nature, features and limitations.

By M. Eswar Krishna, III/IV B.Tech

A recent review of conventional vs. automated cyber security anti-phishing techniques

In the era of electronic and mobile commerce, massive numbers of financial transactions are conducted online on daily basis, which created potential fraudulent opportunities. A common fraudulent activity that involves creating a replica of a trustful website to deceive users and illegally obtain their credentials is website phishing. Website phishing is a serious online fraud, costing banks, online users, governments, and other organizations severe financial damages. One conventional approach to combat phishing is to raise awareness and educate novice users on the different tactics utilized by phishes by conducting periodic training or workshops. However, this approach has been criticized of being not cost effective as phishing tactics are constantly changing besides it may require high operational cost. Another anti-phishing approach is to legislate or amend existing cyber security laws that persecute online fraudsters without minimizing its severity. A more promising anti-phishing approach is to prevent phishing attacks using intelligent machine learning (ML) technology. Using this technology, a classification system is integrated in the browser in which it will detect phishing activities and communicate these with the end user. This paper reviews and critically analyses legal, training, educational and intelligent anti-phishing approaches. More importantly, ways to combat phishing by intelligent and conventional are highlighted, besides revealing these approaches differences, similarities and positive and negative aspects from the user and performance prospective. Different stakeholders such as computer security experts, researchers in web security as well as business owners may likely benefit from this review on website phishing. **By M. Venkateswarlu , III/IV B.Tech**

Digital watermarking: Applicability for developing trust in medical imaging workflows state of the art review

Medical images can be intentionally or unintentionally manipulated both within the secure medical system environment and outside, as images are viewed, extracted and transmitted. Many organizations have invested heavily in Picture Archiving and Communication Systems (PACS), which are intended to facilitate data security. However, it is common for images, and records, to be extracted from these for a wide range of accepted practices, such as external second opinion, transmission to another care provider, patient data request, etc. Therefore, confirming trust within medical imaging workflows has become essential. Digital watermarking has been recognised as a promising approach for ensuring the authenticity and integrity of medical images. Authenticity refers to the ability to identify the information origin and prove that the data relates to the right patient. Integrity means the capacity to ensure that the information has not been altered without authorization.

This paper presents a survey of medical images watermarking and offers an evident scene for concerned researchers by analyzing the robustness and limitations of various existing approaches. This includes studying the security levels of medical images within PACS system, clarifying the requirements of medical images watermarking and defining the purposes of watermarking. **By Gayatri, III/IV B.Tech**

ARTIFICIAL INTELLIGENCE

In the real world, the knowledge has some unwelcomed properties -Its volume is huge, next to unimaginable. It is not well-organized or well-formatted. It keeps changing constantly. AI Technique is a manner to organize and use the knowledge efficiently in such a way that -It should be perceivable by the people who provide it. It should be easily modifiable to correct errors. It should be useful in many situations though it is incomplete or inaccurate.AI techniques elevate the speed of execution of the complex program it is equipped with (AI), sometimes called machine intelligence. It's intelligence demonstrated by machines, in contrast to the natural intelligence displayed by humans. In computer science AI research is defined as the study of "intelligent agents". Any device that perceives its environment and takes actions that maximize its chance of successfully achieving its goals.The term "Artificial intelligence" is applied when a machine mimics "cognitive" functions that humans associate with other human minds, such as "learning" and "problem solving". **By Manasa.M, , IV /IV CSE**

3-D Printing

To anyone who hasn't seen it demonstrated, 3-D printing sounds futuristic—like the meals that materialized in the Jetsons' oven at the touch of a keypad. But the technology is quite straightforward: It is a small evolutionary step from spraying toner on paper to putting down layers of something more substantial (such as plastic resin) until the layers add up to an object. And yet, by enabling a machine to produce objects of any shape, on the spot and as needed, 3-D printing really is ushering in a new era.As applications of the technology expand and prices drop, the first big implication is that more goods will be manufactured at or close to their point of purchase or consumption. This might even mean household-level production of some things. (You'll pay for raw materials and the IP—the software files for any designs you can't find free on the web.) Short of that, many goods that have relied on the scale efficiencies of large, centralized plants will be produced locally. **By Phalguni.S, IV /IV CSE**

Bio Informatics

An unprecedented wealth of biological data has been generated by the human genome project and sequencing projects in other organisms. The huge demand for analysis and interpretation of these data is being managed by the evolving science of bioinformatics. Bioinformatics is defined as the application of tools of computation and analysis to the capture and interpretation of biological data. It is an interdisciplinary field, which harnesses computer science, mathematics, physics, and biology. Bioinformatics is essential for management of data in modern biology and medicine. The main tools of a bio information are computer software programs and the internet. A fundamental activity is sequence analysis of DNA and proteins using various programs and databases available on the world wide web. Anyone, from clinicians to molecular biologists, with access to the internet and relevant websites can now freely discover the composition of biological molecules such as nucleic acids and proteins by using basic bio informatic tools. **By Prakurti. J, IV /IV CSE**

Internet of Things

The Internet of Things, or IoT, refers to billions of physical devices around the world that are now connected to the internet, collecting and sharing data. Thanks to cheap processors and wireless networks, it's possible to turn anything, from a pill to an aeroplane, into part of the IoT. This adds a level of digital intelligence to devices that would be otherwise dumb, enabling them to communicate without a human being involved, and merging the digital and physical world The IoT promises to make our environment -- our homes and offices and vehicles -- smarter, more measurable, and chattier. Smart speakers like Amazon's Echo and Google Home make it easier to play music, set timers, or get information. Home security systems make it easier to monitor what's going on inside and outside, or to see and talk to visitors. IoT devices use a variety of methods to connect and share data: homes and offices will use standard wi-fi or Bluetooth Low Energy (or even Ethernet if they aren't especially mobile). **By Ch.Sowmya, IV /IV CSE**

Jokes:

Teacher: Who will tell the Chemical Formula Of Water?

e Student: Its " h, i, j, k, l, m, n, o "

Teacher: What is this?

Student: Mam, Yesterday you told us that it is H to O !! by

P.S.Pujitha, 3rd CSE,(168T1A0585)

DO YOU KNOW?

- ❖ There are only two words in the English language that have all five vowels in order: "abstemious"=moderate and "facetious"= treating serious issues with deliberately inappropriate humor.
- ❖ The name of all the continents end with the same letter that they start with. Example: Asia, Africa, Europe etc.,
- ❖ The "sixth sick sheik's sixth sheep's sick" is said to be the toughest tongue twister in the English language.
- ❖ Cockroaches were there 120 million years before dinosaurs roamed the earth.

Russia has a larger surface area than Pluto

FUN CORNER

1. What can clap without any hands?

2. What can go up and come down without moving?

3. When the water comes down, I go up. What am I?

4. What kind of dog that never bites?

5. What has a cap but has no head?

6. What has no weight but is heavy enough to sink a ship?

7. If a man carried my burden, he would break his back. I am not rich, but I leave silver in my track. Who am I?

8. I never ask questions, but always answered. What am I?

9. U can break me easily without even touching me or seeing me. What am I?

10. The more you take, the more you leave behind. What am I?

Fun Corner Answers 1. A Thunder, 2.Temperature, 3.An Umbrella, 4.A Hotdog, 5.A Bottle,

6.A Hole, 7.A Snail, 8.A Doorbell, 9.A Promise, 10.Footsteps

Sk. Thaslima, 178T1A0598

A.Swathi, 178T1A0501

Staff Research Colloquia

Department of CSE helps the faculty to persuade the research, in the same way the faculty shows their engrossment to present

their research knowledge by presenting seminars.Mrs. B. Swathi gave seminar topic on Block Chain Technologies on 10-9-

2018 as a part of research activity

Mr.V.V.R Manoj got award of BEST TEACHER for A.Y.2018-2019 Dr. Ravi .K Principal, Dr.S.Suresh ,HOD &Prof and other staff members appreciated him for his achievement.

Department of CSE encourage the faculty to persuade the research, in the same way the faculty shows their engrossment to present their research knowledge by attending FDP's at various Engineering colleges.

Department of CSE encourage the faculty to upgrade their academic progress.The Faculty of CSE Mr. K. Sandeep, Asst.Prof, Mr.P. Jagadeeshwara rao, Asst.Prof, Mr.M.Ravi Kanth, Asst.Prof, &V.V.R.Manoj and other Faculty members of other dept's also successfully completed their 3months online FDP course from IIT Bombay as 101x & 201x

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A PhD or Doctorate is the highest form of education that anyone can get. This is not just a degree. It's one of the sweetest fruit that anyone in the field of education gets after years and years of hard work. Perseverance is the key here. It shows how persistent you are. All your life you are going to be highly respected and recognized for your achievement and your degree. Congratulations on getting your PhD/Doctorate degree. Finally, all your years of hard work and turmoil have paid off. You will now be called Dr. **K.S.V.A Sateesh Kavuri** and that is a great deal of respect.

Mr. K.S.V.A Sateesh Kavuri ,Associate professor of cse department had awarded P.hd titled as **"improved attribute encryption Models for Cloud Services** the management and other faculty members appreciated for his achievement

congratulations sir

Dhanekula Samskruthi conducted events for Anuual day in that CSE staff P. Sunitha Asst.Prof, Y.Salini Asst.Prof got 1st prizes in Talent Hunt.

Faculty Participated FDP'/ Workshops/ Seminars

S.No	Faculty	Name of the Event / Course
1	Mr.K.Sateesh	Eight Weeks NPTEL course (One week FDP) on Cloud Computing
2	Mr.M.Ravikanth	Five Day Faculty Improvement Program on Data Structures and Algorithms Workshop at Madanapalle Institute of Technology and Science from 28th May 2018 to 1st June 2018
3	Mrs.K.Sandhya Rani	Three Day IUCEE International Engineering Educator workshop at VIT-AP from 12th July 2018 to 14th July 2018
4	Dr.A.Srinivasa Rao	One Day Seminar on Digitization Vs Digital Based Analysis at V R Siddhartha Engineering College on 31st October 2018
5	Mr.K.Sandeep	One Day Seminar on Digitization Vs Digital Based Analysis at V R Siddhartha Engineering College on 31st October 2018
6	Mr.M.Ravi kanth	One Day Seminar on Digitization Vs Digital Based Analysis at V R Siddhartha Engineering College on 31st October 2018
7	Mr.M.Ravi kanth	An Online Course on Algorithmic Toolbox by University San Diego and National Research University Higher School of Economics, offered through Course
8	Mr.K.Sateesh	One Week Faculty Development Program on Data Sciences at V R Siddhartha Engineering College from 12th November 2018 to 16th November 2018
9	Mrs.N.Sri Lakshmi	One Week Faculty Development Program on Data Sciences at V R Siddhartha Engineering College from 12th November 2018 to 16th November 2018

		Engineering College from 12th November 2018 to 16th November 2018
11	Mr.R.Phani Kishore	One Week Faculty Development Program on Data Sciences at V R Siddhartha Engineering College from 12th November 2018 to 16th November 2018
12	Mr.K. Sandeep	3Months online MOOC'S Program on "Foundation Program in ICT for Education [FDP101X]" Organized by IIT Bombay
13	Mr .PJagadeeshwara Rao	3Months online MOOC'S Program on "Foundation Program in ICT for Education [FDP101X]" Organized by IIT Bombay
14	Mr.M. Ravi Kanth	3Months online MOOC'S Program on "Foundation Program in ICT for Education [FDP101X]" Organized by IIT Bombay
15	Mr.V.V.R.Manoj	3Months online MOOC'S Program on "Foundation Program in ICT for Education [FDP101X]" Organized by IIT Bombay
16	Mr.K. Sandeep	3Months online MOOC'S Program on "Pedagogy for online and Blended Teaching Learning Process [FDP201X]" Organized by IIT Bombay
17	Mr.P.Jagadeeshwara Rao	3Months online MOOC'S Program on "Pedagogy for online and Blended Teaching Learning Process [FDP201X]" Organized by IIT Bombay
18	Mr.M.Ravi Kanth	3Months online MOOC'S Program on "Pedagogy for online and Blended Teaching Learning Process [FDP201X]" Organized by IIT Bombay
19	Mr.V.V.R.Manoj	3Months online MOOC'S Program on "Pedagogy for online and Blended Teaching Learning Process [FDP201X]" Organized by IIT Bombay
20	Ms.K. Sandhya Rani	12 Months Certification Program on IIEECP organized by IUCEE
21	Mr.K.Sandeep	One Day Coordinators Workshop on Moodle learning on 1st March 2019 at 'IIT Bombay
22	Mr.M.Ravi Kanth	One Day Coordinators Workshop on Moodle learning on 1st March 2019 at 'IIT Bombay
23	Mr.K.Sandeep	One Day Faculty Development Program on "Moodle Learning Management System" in association with IIT Bombay on 15th March 2019 at Dhanekula Institute Of Engg &Tech, Ganguru,Vijayawada.
24	Mr.M. Ravi Kanth	One Day Faculty Development Program on "Moodle Learning Management System" in association with IIT Bombay on 15th March 2019 at Dhanekula Institute Of Engg &Tech ,Ganguru,Vijayawada
25	Ms. P.Sunitha	One Day Faculty Development Program on "Moodle Learning Management System" in association with IIT Bombay on 15th March 2019 at Dhanekula Institute Of Engg &Tech, Ganguru,Vijayawada
26	Ms. B.Swathi	One Day Faculty Development Program on "Moodle Learning Management System" in association with IIT Bombay on 15th March 2019 at Dhanekula Institute Of Engg &Tech, Ganguru,Vijayawada
27	Ch.Padmini	One Day Faculty Development Program on "Moodle Learning Management System" in association with IIT Bombay on 15th March 2019 at Dhanekula Institute Of Engg &Tech, Ganguru,Vijayawada
28	Ms.V.Swathi	One Day Faculty Development Program on "Moodle Learning Management System" in association with IIT Bombay on 15th March 2019 at Dhanekula Institute Of Engg &Tech, Ganguru,Vijayawada
29	Ms.L.N.B.Jyostna	One Day Faculty Development Program on "Moodle Learning Management System" in association with IIT Bombay on 15th March 2019 at Dhanekula Institute Of Engg &Tech, Ganguru,Vijayawada
30	Mr.K.Sandeep	Twelve Weeks NPTEL course on Joy of Computing using Python(NOC19-CS09)
31	Mr.M.Ravi Kanth	Twelve Weeks NPTEL course on Joy of Computing using Python(NOC19-CS09)
32	Ms. P.Sunitha	Twelve Weeks NPTEL course on Cryptography and Network Security(NOC19-CS28)
33	Ms. B.Swathi	Twelve Weeks NPTEL course on Cryptography and Network Security(NOC19-CS28)
34	Ms.Y.Salini	Eight Weeks NPTEL course on Data Mining (NOC19-CS15)

Faculty Publications

S.No	Author Name	Paper Title
1.	Mr. M. Ravikanth	Analyzing human behavior for financial fraud detection
2.	Mrs. B. Swathi	An efficient approach for password sharing using block chain technique
3.	Mrs. M. Ragini	Hand written digit recognizer
4.	P.Sunitha	Revocable stockpile identity based encryption in cloudcomputing for unaissilable data sharing
5.	Mrs. M. Ragini	Smart Campus
6.	Mr. K. Sandeep	Self driving car using CNN
7.	Mr. K. Sandeep ,	Automated tool to convert handwritten text image into text
8.	Mr. Y. Ashok ,	Cloud log security for cloud forensics
9.	Ms. P. Sunitha	Acquisition of secured data from cloud
10.	Mrs. CH. Padmini	Smart License Plate
11.	Mr. P.V. Hari Prasad	Privacy Protection based access control scheme in cloud based services
12.	Mr. V. V. R Manoj	Efficient keyword aware representative travel route recommendation
13.	Mr. P. Jagadeeswara Rao	Product Quantization based approach for approximate nearest neighbor
14.	Mrs. P. Swathi	Pragmatic revival of documents in cloud computing utilizingattribute based
15.	Mrs. G. Venkata Ramana	Smart Crop spraying System
16.	Mrs. M. Hima Jyothi	IoT based smart parking system
17.	Mrs. K. Sandhya Rani	IoT based accident alert and real time vehicle tracking using GSM & GPSand E-Bus Pass
18.	Mr. M. Ravikanth	Kid's tracker using wearable for child safety
19.	Mrs.B.Swathi	Smart garbage monitoring system using internet of things
20.	Mrs. L. N. B. Jyotsna	An Efficient classification of plant disease detection using image processing

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