



2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

S.No	Department	Page Number
1	Department of Biotechnology	2-8
2	Department of Civil Engineering	9-20
3,	Department of Chemical Engineering	21-30
4	Department of Computer Science And Engineering	31-43
5	Department of ECE	44-60
6	Department of EEE	61-69
7	Department of Information Technology	70-91
8	Department of Mechanical Engineering	92-103
9	Department of MCA	104-113
10	School of Management Studies	114-125
11	Department of Physics	126-129
12	Department of Mathematics	130-139
13	Department of English	140-143
14	Department of Chemistry	144-152

Principal

Chaitanya Bharathi Institute of Technology (Autonomous)

Gandipet, Hyderabad-500 075.

Chaitanya Bharathi Institute of Technology (A) Department of Biotechnology Experiential Learning Methodologies used by Biotechnology department:

Industrial Internships Department of Biotechnology (From A.Y 2017-18 To A.Y 2021-22)

Academic Year		No of student	s done Internship		Total no of
	1 to 3 weeks duration	3 to 6 weeks duration	More than 6 weeks duration	Whole Semester duration	students done internship
2017-18	2	4	-	-	6
2018-19	1	5	-	-	6
2019-20	6	5	4	3	10
2020-21	3	6	16	J	18
2021-22	14			-	25
		-	43	9	66

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Demonstrations of working models/ Experiments (Project Expos) by Biotechnology department

A Brief Technical Report on "Neozion-2022" - Live Projects Dates of Event: 23rd & 24th March, 2022

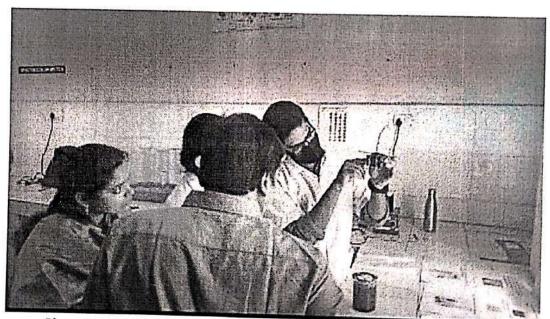
Theme of the activity: Application, Innovation, and Product development in Biotechnology

Scope covered: Food Biotechnology, Nano Biotechnology, PlantBiotechnology, AlgalBiotechnology, Animal Biotechnology, Environmental Biotechnology

Outcome:

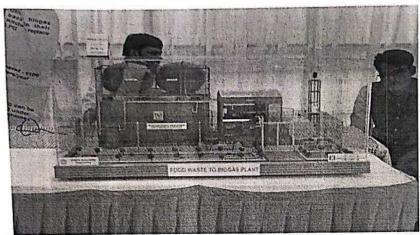
- Demonstrate proficiency in basic laboratory skills like preparation of solutions and culture media, handling of equipment, aseptic techniques, micro pipetting
- Perform, and analyze results of experiments using basic laboratory techniques in molecular biology

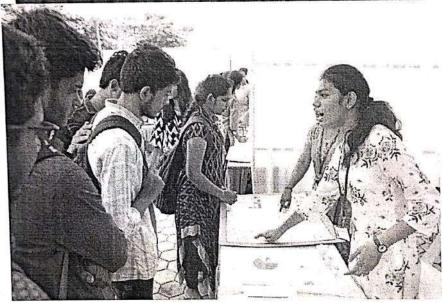
Number of students and faculty attended: Students: 32;Faculty:6



Photographs :Students demonstrating live projects to Judges in Neozion 2022

Research day 2019 Number of students and faculty attended: Students: 156;Faculty: 10



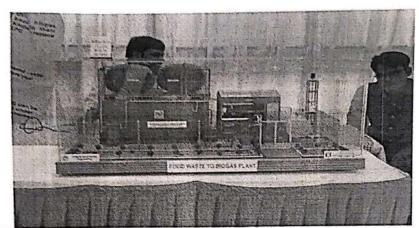


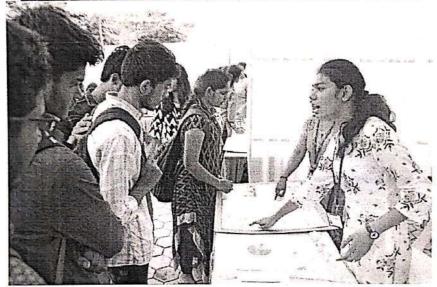


Students demonstrating live projects as part of Research day 2019

Dept of Bio-Technology Charlanya Bharathi Instituce of Technology Caudiget, Hyderabasena Cris

Research day 2019 Number of students and faculty attended: Students: 156;Faculty: 10







Students demonstrating live projects as part of Research day 2019

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Participative Learning Methodologies used by Biotechnology department:

Hackathons/ Ideathons

A Brief Technical Report on "Neozion-2022" - Bio Hackathon
Dates of Event: 23rd&24th March,2022

Theme of the activity: Biotechnology for the Society

Scope covered: Food Biotechnology, Nano Biotechnology, Plant Biotechnology, Algal Biotechnology, Animal Biotechnology, and Environmental Biotechnology

Outcome:

- Challenged to solve a real problem in limited amount of time, the constraint of time helps youth to think of creative solutions
- Students can get validation on ideas that comes upto you from variety of people (if you have plan to ever become an entrepreneur)

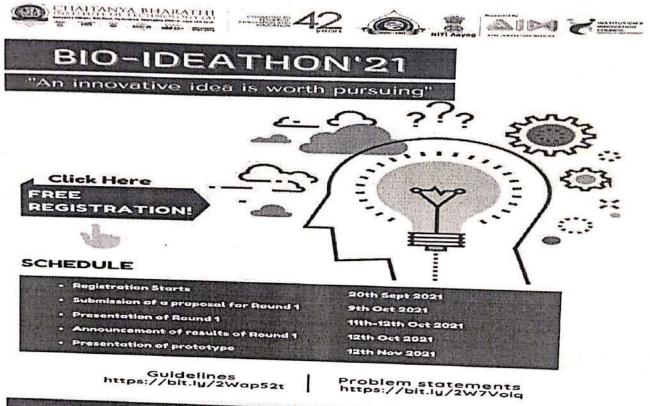
Number of students and faculty attended: Students:06; Faculties:1



Prize winner in Biohackathon-2022

Bioideathon'21

Bioideathon '21 is conducted by Department of Biotechnology, CBIT in November 2021 in association with ACIC-CBIT sponsored by NITI Aayog, NewDelhi in two phases. A total of 13 teams have registered for the Bioideathon out of which first two best two teams were awarded cash prize



http://icbit21.cbit.org.in/index.php/ideathon/

Hands-on Training programs/workshops

2017-	-18		
S.N	Date	Event Details	Proof
i	12-09-2017 to 13-09- 2017 26-02-2018 to 27-02-	Two days workshop on Biotechnology Innovations and Business Opportunities Organized Jointly by Department of Biotechnology and School of Managaement studies CBIT Hyderabad Two day Workshop on Bioinformatics	https://drive.google.com/file/d/1f7jop3nNY g87Q5MoTq9j818t_bJSnmoH/view?usp=sh aring
2	2018	By Dr. C. N. Prashantha, Organized by Department of Biotechnology, CBIT, Hyderabad	
2018	3-19		
S.N	Date	Event Details	Proof
i	15-03-2019 to 16-03- 2019	Two day National workshop on Current trends in Bioinformatics, Organized by Department of Biotechnology, CBIT, Hyderabad, Molecular Phylogenetics and DNA microarray and cluster analysis of gene expression	https://drive.google.com/file/d/1d2Eo20dPJ u78SkEQKUeLSwT8Hj5UagaU/view?usp= sharing
2019	9-20		
S.N	Date	Event Details	Proof
i	7/19/2019	Workshop was conducted on "Patent Searching-Search strategies and Techniques" by Mr. Penden Purushotham Rao, Manager, Life sciences division, Dolcera Information Technology Services Pvt Ltd.	https://drive.google.com/file/d/1J9Ju70fvRF _zuoDcDvPBDag3xTakS1Ry/view?usp=sh aring https://drive.google.com/file/d/1VJ1oqme0 G-
2	2/3/2020	Gillette empanelled Motivational Speaker workshop on"How to develop a Smart and Confident personality"	3RkjLkZLCPLYGLpr2nf9XI/view?usp=sh aring https://drive.google.com/file/d/1lci7Fm_Tl MXzm_0xaT4A- Puu7FfGo2JH/view?usp=sharing https://drive.google.com/file/d/1VWDYVW quRQSluc3m4wgHRBnBGlgQdqRM/view ?usp=sharing
202	1-22		
S.N	Date	Event Details	Proof
i	11-05-2022 to 12-05- 2022	"30M Genomics Pvt. Ltd." conducted a two-day Hands-On Workshop on "Advanced Genomics for Molecular Diagnostic Applications" for 36 students of 3rd B.Tech. Biotech students on 11.05.2022 and 12.05.2022 at the Department of Biotechnology, CBIT.	https://drive.google.com/drive/folders/1CDl 6_GsqeHV9p2I2X2rrzHz1V_vunUJq?usp= sharing

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CIVIL ENGINEERING DEPARTMENT

2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences.

a) Experiential Learning Methodologies used:
Industrial Internships/ Industrial Visits
Rural Internships/ Community Engagement
Learning by Doing (Labs and Projects)
Demonstrations of working models/ Experiments (Project Expos)
CALL-Computer Aided Language Learning

Industrial Internships, Industrial Visits (For the AY 2017-18 to 2021-22):

The department organizes seminars/guest lecturers/interactive sessions etc by the eminent persons from the industry to expose the students to industry requirements and provide them better insight of the same. The faculty members are also encouraged to attend training sessions organized byindustries. The students go on industrial visits to acquire hands-on experience and get exposure to the industrial environment. The students are encouraged to undergo internships in reputed industries/companies during summer vacation.

The department organizes industrial visits for students once in a year/semester to relevant organizations/companies to enable the students to experience the practical implementation of theoretical knowledge in the real world. This gives them an insight and exposure to the industrial environment, the work culture, and ethics in Industries. The visits also help the students to learn about human resource management, which is essential in any organization.

Industrial Internships for the AY 2017-18 to 2021-22:

The students are encouraged to take up internship programs during their semester break. Department provides guidelines, suggestions, scope, and details of industries offering internships. Besides, the faculty coordinator constantly interacts with those alumni who are entrepreneurs/working in the industries and requests them to provide necessary guidance and support for internships.

S. No.	Roll No	Name of the student	Name of the Company/ Organization	Duration	Title of Work
:	- A	. 2	021-2022	-	
			Sem VII and Sem VI Samples)	11	

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Department of Civil Engineering Chaitanya Bharathi Institute of Technology

	16011972200			26.07.0001	
1	160118732025	B Anish	Sumadhura	26-07-2021 to	Processes in civil
				14-08-2021	engg.
	160118732031	V HemaVard	han Sumadhura	26-07-2021	Processes in civil
	1			to 14-08-2021	engg.
BE	III Year &Sem V ar	nd Sem VI (Semul		NE TV OMMINICENSOUND	constructions
		Sample	es)		
1	160119732003	Anusha R	Giridhariprospera	1-03-2022 to 29-03-2022	Construction processes
2	160119732005	Chinhitha K	Giridhariprospera	1-03-2022 to 29-03-2022	Construction processes
			2019-2020		
		BE III Year	SemV and Sem VI (Sar	nples)	
1	160117732002	B. Anupama Reddy	L & T Metro Rail Hyderabad.	24-06-2019 to 29-06-2019	Construction Sequence of Station and Ballast less Track
2	160117732002	B. Anupama Reddy	D.E.C Infrastructure & Projects (India) Pvt. Ltd. (Formerly Known as M/s Das Engineering Co.)	30-05-2019 to 06-06-2019	Construction of 2 BHK Housing Scheme
		BE II Yea	r &Sem III and Sem I	v	
1	160119732031	P Manoj RamiReddy	TTribeThub	2019-2020	Entrepreneurship program by Telangana State
2	160119732008	KhyathiVardhini V	TTribeThub	2019-2020	Entrepreneurship program by Telangana State
3	160119732004	Charvi P	TTribeThub	2019-2020	Entrepreneurship program by Telangana State
		DE *** **	2018-2019		
	1	BE III Year and	Sem V and Sem VI (S		
1	160116732004	Dusetty Manisha	Jayabheri Properties Pvt. Ltd Gachibowli, Hyderabad – 500032	03-06-2019 to 20-06-2019	Jayabheri The Summit
2	160116732006	G. Radhika Brindavani	Jayabheri Properties Pvt. Ltd Gachibowli, Hyderabad – 500032	03-06-2019 to 20-06-2019	Jayabheri The Summit
3	160116732007	A. Ramya Varshini	Sita Shelter Pvt. Ltd, H.No: 7-1-22/4, G-1, Begumpet,	16-05-2019 to 27-06-2019	Plots, Column Marking using Total Station,

T			Hyderabad- 500016,		foundation &
			Telangana.	10	Plinth Beams etc.
	20	17-2018 III Vear	&Sem V and Sem VI (Sa	amples)	
1	1601-15-732-00 1	Ms. K. Akila Reddy	Aparna Constructions & Estates Pvt. Ltd, Hyderabad.	18-06-2018 To 23-06-2018	Detailed explanation of all the activities in the construction which includes both office work and field work. At Aparna sarovar, zenith site, Hyderabad.
2	1601-15-732-00 3	B. Anusha Bai	Aparna Constructions & Estates Pvt. Ltd, Hyderabad.	18-06-2018 To 23-06-2018	Detailed explanation of all the activities in the construction which includes both office work and field work. At Aparna sarovar, zenith site, Hyderabad.
3	1601-15-732-00 6	Mr. A. Mahotra	Aparna Constructions & Estates Pvt. Ltd, Hyderabad.	18-06-2018 To 23-06-2018	Detailed explanation of all the activities in the construction which includes both office work and field work. At Aparna sarovar, zenith site, Hyderabad.
		2017-2018	II Year &SemII and Ser	n III (Sample)	
33	1601-16-732-01 1	Ms. B. Shivani	Sita Shelters Pvt. Ltd.	19 th May- 30 th June, 2018	Site execution
34	1601-16-732-01 4	Ms. N.C.Supriya	CADSYS, Himayatnagar, HYD	June- July, 2018	One month training in basic AutoCAD
35	1601-16-732-01 3	Ms. Sri RaghaSaipriy a.N	Aqua Space Developers Pvt. Ltd at My Home Bhooja site	19 th May-30 th June, 2018	Concrete Technology and site execution
36	1601-16-732-01 7	Ms. Yamini Gupta	AIESEC – Srilanka	28 th May-29 th June, 2018	International Volunteer Internship

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37 1601-16-732-08 2	K. Harish	Howe, VIZHIJAM PORT, TRIVANDRUM.	То	Study of Marine Pilling Technology & Procedures.
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Industrial Visits for the AY 2017-18 to 2021-22:

*Due to COVID, no industrial visits were planned for the AY 20-21 and 21-22

S. N O	Date	Place of Visit	Outcome
1	31-01-2020	Industrial visit to CABLE Stayed bridge on Durgamcheruvu, hyderabad	This visit gave students to understand the construction of cable bridge.
2	11-03-2019	Construction site at Rampally and reservoir at Shamshabad	This visit gave students a deep insight into the concepts of construction techniques and gain practical exposure to industry
3	22-01-2019	Sewage treatment plant, HMWS&SB, Amberpet, Hyderabad.	Visit to this plant gave students a deep insight into the concepts of treatment of sewage and processes involved in sewage treatment plant
4	BSCPL pre-stressed concrete		This visit gives students a deep insight into the concepts in design of pre-stress structures and importance of pre-stress concrete in construction industry.

Rural Internships/ Community Engagement(For the AY 2017-18 to 2021-22):

COMMUNITY ENGAGEMENT:

The Community Engagement course will introduce students to the theory, techniques and challenges and field work related to community engagement. The objective behind this course is students to learn about challenges faced by various sections of the society and help in develop an appreciation of Rural culture, life-style and wisdom among the Students, Learn about the various livelihood activities that contribute to Rural economy and Familiarize the Rural Institutions and the Rural Development Programmes in India. Field work includes that interaction with women members of self-help groups (SHGs), visit to Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) project sites, visit state government sites, rural primary, middle and high schools/ midday meal centres, participate in gram sabha (village council) meetings, visit to local nagarpalika (municipal) office and anganwadi (child care) centers, among others. At the endof the course student will produce the report work on any one of the issues facing by the communities. In this course, students will learn how to become an active community member and citizen. An emphasis will be

placed on in-service learning, leadership training and team building opportunities.



Fig 1: Visit to Akshya Patra by Civil (A2)

AY: 2021-2022

Dept: Civil (A2), I/IV Sem-II

8. N 0	Roll No	Title
1	1601-21-732-071 to 75	Anganwadi centers and Its Services
2	1601-21-732-076 to 80	Organic Cultivation and Use of Fertilizers
3	1601-21-732-081 to 85	Anganwadi centers
4	1601-21-732-086 to 90	Mid-Day Meal Center and Its Services
5	1601-21-732-091 to 95	Anganwadi Center
6	1601-21-732-096 to 100	Akshaya Patra- The NGO
7	1601-21-732-101 to 105	Mid-Day Meal Scheme
8	1601-21-732-106 to 110	Anganwadi
9	1601-21-732-111 to 115	Anganwadi Center
10	1601-21-732-116 to 120	Mid-Day Meals
11	1601-21-732-121 to 126	Mid-Day Meals
12	1601-21-732-127 to 132	Rural Schools in India

Learning by Doing (Labs and Projects):

Laboratory experiments:

Laboratory class work: A detailed Laboratory schedule is prepared prior to the commencement of class work, with the planning of experiments/programs to be performed in each session. The experiments/programs are designed in such a way that student get

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expertise in that particular Laboratory course. Students are evaluated for 50 marks in semester end examination and 25 marks in Continuous Internal evaluation for 2 credit lab course while it is 35 marks in SEE and 15 marks in CIE for 1 credit lab course.

Quality of laboratory experiments: Around 12 experiments are designed in the syllabus fora semester class work. Additional experiments are also conducted beyond the syllabus wherever necessary. Laboratory instructional manual contains the details of the experimentand theses are provided to students at the commencement of the semester.

Well-equipped labs and updated experiments as per the latest technologies help the students to update. Students are encouraged to repeat the experiments to become skilled and experiments/problems are designed for individual students to enhance their ability to prepare the protocols for a particular experiment (not for all labs). Research labs established in the department as well as in other department are used for the conducting experiments to orient the interest of students' interest towards research. Use of higher version equipment with latest standard software always helps the students to analyze the data as per the industrial standards.

Projects (For the AY 2017-18 to 2021-22):

Student Projects course in civil engineering is designed to provide the students an understanding on various courses of the curriculum and ability to apply the concepts from these courses in order to obtain innovative solutions, to the problems related to civil engineering domain, that cater the needs of the society. The students carry out their project works in the VII and VIII semester respectively. The students select a project in line with their area of interest and they are encouraged to work on real world examples. The in-depth study of a selected project problem and showing an implementable solution to the problem taken up enables the student to synthesize and integrate knowledge, connect theory and practice as well as demonstrate holistic achievement of program learningoutcomes. Project work provides opportunity for improvement in presentation and communication skills and also helps them learn more within and beyond curriculum. Atthe end of the project, students are encouraged to publish their work in Journals / conferences. At the end of the project the students are expected to have:

- The capability to complete projects within the stipulated period and cost.
- The capability to manage and use scientific knowledge to carry out Engineering projects.
- The capability to think objectively, analytically, and critically in identifying and solving problems in a systematic manner.
- The capability to deliver or present the project findings in oral and written form.
- The Department follows processes mentioned below to monitor the Project work continuously and promote quality in project works.

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CIVIL ENGINEERING DEPARTMENT

b). Participative Learning Methodologies used:

Flipped Classroom

Hackathons/ Ideathons

ICS-Interactive Communication Skills

Technical Clubs

Hands-on Training programs/workshops

Mock Interviews

Role Play

ICS-Interactive Communication Skills:

AUDIO-VISUAL CENTER AT SCIENCE DEPARTMENT:

Involving the students while teaching is what builds the student and helps them learn faster, keeping this in mind, Under the guardianship of the English department, an Audio-Visual Center was established in CBIT which offers a wide range of various learning techniques that aim to acuminate the English language skills of students and also proffer a deeper understanding of the language. When a student with his knowledge listens, sees, and practically applies it, that's when they will understand better and put the knowledge to actual use and this is what the Audio-Visual Center provides. Audio-Visual Center embodies 2 labs, the CALL, and the ICS lab. CALL which is known as Computer-Assisted Language Learning strives to bridge the digital divide by providing all students with equal access to technology-aided education, whereas the ICS-Interactive Communications skills lab attempts to sharpen certain skills of students through activities such as group discussions ,role-play activities, and many more. The Audio- Visual center ensures that every student, irrespective of their background, is treated equally in terms of the equipment and learning techniques that they have access to, making the entire class subject to the good outcomes of the faculty's hard work. Having the selabs ameliorate the student's creative thinking, critical thinking, and decision-making skills. The students are provided with accent neutralization training, a deeper understanding of phonetics, and several other reallife skills like interview and presentation skills. Doing this not only student's skills butalso increases the love for the language. The less on sare not limited to merely theoretical jargon; the students are encouraged to practically display and improve their skills by taking part in group discussions, putting up skits that involve role-playing, and making presentations. By doing such activities not only the students overcome their stage fear but also learn to work as a team and be confident in whatever they speak. The knowledge and skills

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Department of Civil Engineering

Chaitanya Bharathi Institute of Technology

CIVIL ENGINEERING DEPARTMENT

c). Problem Solving methodologies used: Course End Projects, Mini and Major ProjectsOpen ended problems/ Structured Enquiry Tutorials Group Assignments Crossword Puzzles & QuizzesCase Studies

Course End Projects, Mini and Major Projects:

Project Reports titles - B.E. (Civil - A1)-VIII semester For Ay: 2021-2022 (Sample Titles)

S. N	Roll Number	Name of the student	Title of Project	Name of the Guide	
0.	160118732305	Pakalapati Sai Anil kumar	Retrofitting of Buildings	Dr. K. Jagannadha	
	160118732306	John Kenneth	Seismic	Rao	
l l	160118732307	Irshad Mohammad	-		
-		AkhilaUmmanavena	Response of	Dr. M. Koti	
	160118732001	/ARIMEIIIIIIIII, VIII	Irregular	Reddy	
	160118732002	Gayathri Mounika T.V	Buildings Seismic Analysis of	Dr. M. Koti	
	160117732015	Chilukuri Spandana Reddy	Step back Buildings On Sloping	Reddy	
	160117732013	Kadannagari Arvin Reddy	Ground	-	
	160118732049	Angara SrivenkatachalaSubrahmanya Saketh	2000 (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900)		
	160117732059	ChintaVishwa Vignan	Pedestrian Crossing	Prof. S. S.	
1	160118732012	K Sai Sindhu	Behaviour At Un signalized Intersection	V. Chalam	
	160118732032	M Maveen	incraction	v. chaiam	
- 1	160118732038	Chelimilla Rama Krishna Reddy		D. C.D.	
	160118732008	Neeharika Pusala	Investigations On The Performance Of Rc Framed Buildings In Disaster Prone Areas-Case Studies In Seismic, Wind And Flood Zones	Prof. P. Sreenivas Sarma	
1	160118732005	R. Kirankumari			
	160118732014	Pakanati Shilpa			
	160118732021	Mohammed Abdul Rafey Mubasshir	Study Of Effect Of Corner Modification On Wind Pressure ActingOn Square	Sri. A. BalajiRao	
	160118732022	Bejgam Abhishek	HighRise Building		
	160117732029	Kushal			
	160118732004	Harshitha Sandiri	Analysis And Design Of Box	Dr. N.R.	
Ī	160118732011	Rakshitha	Culvert	Dakshina	
	160118732045	Sathwik Chandra Akkinepally		Murthy	
\neg	160118732044	Challa Sanjay Reddy	"Study On Strength And	Dr. N.R. Dakshina	
t	160118732043	S. Sai Lokesh	Durability Properties Of Concrete With Alccofine As	Murthy	
	160118732302	Chipirichetti Vijay	Admixture"	(A.18-2-1-20 (A.18-2-1-1-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
+	160118732041	Daladuli Sai Krishna	Improvement Of Bearing	Sri G. Bhaskar	
ı	160118732042	Mucharla Sai Kumar	Capacity Of Soil By Using Admixtures (Cement, Fly ash)	Reddy	
	160118732054	Venkatesh Bandaru			
\top	160118732016	G Tara Sri	Analysis and	Sri T.	
-	160118732017	Teegala Vaishnavi Reddy	design of	Vasudeva Rao	
f	160117732032	Mohammed Ashwaq Mohammed	multi-storey buildings	Rao	
-	160118732020	Yasaswini Matam	Biodegradable	Smt. K.	

160118732025	Anish Bondada		Waste - A Case study of CBIT	Manasa
160117732055	M. Uddaay			Smt. K.
160118732024	Anil Reddy Karne		Urban flood management in	Manasa
160118732030	A Hari Prasad	F	Hyderabad A case study in Gandipet Village	
160118732057	M Vishal Tejas			Smt. K.
160118732040	Sagar Nunavath		Design Of Cross Section	Manasa
160118732050	Surya Bharath Koto	enky	Of Non Overflow Dam	Ivianasa
160118732059	Vivek Reddy Cher		Section	
			Waste Management	Smt. K.
160118732013	Masabathini Sathya		systems	Manasa
160118732055	Gunti Venkatesh Sa	agar	Systems	
160117732024	Bharath Kumar B		Analysis Of Multi-Storey	Sri P.
160118732003	Vunnava Haripriya		Building Using Staad Pro	Srinivas
160118732006	Manasa Badri		Building Camp State 175	Reddy
160117732036	Nikhil Obili		Urban Lake Quality- A Case	Sri R. Ranga
160118732015	Vaddepalli Srihitha			Reddy
160118732031	Vaigandla Hemava	rdhan	Study	
160118732036	Kunta Rahul		Study Of Geopolymer	Sri K.V.
160118732028	Bassi Gnaneshwar			Vivek
160118732301	Nikhil Gadham		Concrete Using Metakoalin	VIVOR
160117732037	Katepaga Pavan Ku	ımar	And Lime StoneFines	0.
160118732034	Pavankalyan Bonku		Experimental Study On	Sri
160118732046	Shiva Kumar Goud	d Dulam	SteelFibre Based Self-	Swamy
160118732304	Banothu Anvesh		Compacting Concrete With	Ranga
			Mineral Admixtures	Reddy
160118732009	Sailla Preethi		Comparative Analysis Of	Smt.
160118732009	Varuda Rajeshwari		Conventional Building And	N.LalithaK
160117732010	Praneeth K		Sustainable Building Using	umari
160117732036	Francentik		Building Information	1
			Modelling	
1 10110720007	Bathini Manasa	An Experimental	Study On Mechanical Properties	
160118732007	ChekondaVijaya	Of Self-Curing Co	oncrete By Replacement Of Fine	Sri M.Kalyan
160118732019		Aggregate With I	Robo Sand In M20 And M30	1
160118732053	Chinthakindi	Grade Of Concret	e	
	Vaishnav		and the second s	
160118732		Analysis And Design Of G+8 Building Using		Sri M.Kalyan
	Gujjari Dhanush		ign Of G+8 Building Using	Sri M.Kalyan
303	Kumar	Analysis And Des Staad.Pro	sign Of G+8 Building Using	Sri M.Kalyan
303 160117732	Kumar Mohammed Anas		ign Of G+8 Building Using	Sri M.Kalyan
303 160117732 033	Kumar Mohammed Anas Ajaz		ign Of G+8 Building Using	Sri M.Kalyan
303 160117732 033 160117732	Kumar Mohammed Anas	Staad.Pro	g 0	
303 160117732 033 160117732	Kumar Mohammed Anas Ajaz Revan Goud	Staad.Pro Pedestrian Crossin	ng Behaviour Modelling At	Sri M.Kalyan Sri G.Viswanatl
303 160117732 033 160117732	Kumar Mohammed Anas Ajaz Revan Goud Chethan Narayana	Staad.Pro	ng Behaviour Modelling At	
303 160117732 033 160117732 041 160118732027	Kumar Mohammed Anas Ajaz Revan Goud Chethan Narayana G Nagaharshith	Staad.Pro Pedestrian Crossin	ng Behaviour Modelling At	
303 160117732 033 160117732	Kumar Mohammed Anas Ajaz Revan Goud Chethan Narayana G Nagaharshith Prem Kumar Pulla	Staad.Pro Pedestrian Crossin Signalized Interse	ng Behaviour Modelling At	Sri G.Viswanatl
303 160117732 033 160117732 041 160118732027	Kumar Mohammed Anas Ajaz Revan Goud Chethan Narayana G Nagaharshith Prem Kumar Pulla Goutham Anand	Pedestrian Crossin Signalized Interse	ng Behaviour Modelling At ction	Sri G.Viswanat
303 160117732 033 160117732 041 160118732027 160118732033 160118732035	Kumar Mohammed Anas Ajaz Revan Goud Chethan Narayana G Nagaharshith Prem Kumar Pulla Goutham Anand Rakesh Sabbani	Pedestrian Crossin Signalized Interse Road Safety Audi Highway 19 From	ng Behaviour Modelling At	Sri G.Viswanat
303 160117732 033 160117732 041 160118732027 160118732033 160118732035 160118732029	Kumar Mohammed Anas Ajaz Revan Goud Chethan Narayana G Nagaharshith Prem Kumar Pulla Goutham Anand	Pedestrian Crossin Signalized Interse Road Safety Audi Highway 19 From Road.	ng Behaviour Modelling At ction t On State m Manneguda To Sagar Ring	Sri G.Viswanat Sri G.Viswanat
303 160117732 033 160117732 041 160118732027 160118732033 160118732035 160118732037 160117732023	Kumar Mohammed Anas Ajaz Revan Goud Chethan Narayana G Nagaharshith Prem Kumar Pulla Goutham Anand Rakesh Sabbani Kvbs Bharath Chandra	Pedestrian Crossin Signalized Interse Road Safety Audi Highway 19 From Road.	ng Behaviour Modelling At ction t On State m Manneguda ToSagar Ring	Sri G.Viswanat Sri G.Viswanat Dr.Mohd
303 160117732 033 160117732 041 160118732027 160118732033 160118732035 160118732029 160118732037	Kumar Mohammed Anas Ajaz Revan Goud Chethan Narayana G Nagaharshith Prem Kumar Pulla Goutham Anand Rakesh Sabbani Kvbs Bharath	Pedestrian Crossin Signalized Interse Road Safety Audi Highway 19 From Road.	ng Behaviour Modelling At ction t On State m Manneguda To Sagar Ring	Sri G.Viswanatl Sri G.Viswanat
303 160117732 033 160117732 041 160118732027 160118732033 160118732035 160118732037 160118732037 160118732037	Kumar Mohammed Anas Ajaz Revan Goud Chethan Narayana G Nagaharshith Prem Kumar Pulla Goutham Anand Rakesh Sabbani Kvbs Bharath Chandra GunapatiVikhyat	Pedestrian Crossin Signalized Interse Road Safety Audi Highway 19 From Road.	ng Behaviour Modelling At ction t On State m Manneguda ToSagar Ring	Sri G.Viswanat Sri G.Viswanat Dr.Mohd
303 160117732 033 160117732 041 160118732027 160118732033 160118732035 160118732037 160117732023	Kumar Mohammed Anas Ajaz Revan Goud Chethan Narayana G Nagaharshith Prem Kumar Pulla Goutham Anand Rakesh Sabbani Kvbs Bharath Chandra GunapatiVikhyat Reddy	Pedestrian Crossin Signalized Interse Road Safety Audi Highway 19 From Road.	ng Behaviour Modelling At ction t On State m Manneguda ToSagar Ring	Sri G.Viswanat Sri G.Viswanat Dr.Mohd

PROFESSOR & HEAD

Department of Civil Engineering Chaitenya Bharathi Institute of Technology GANDIPET, HYDERABAD-5000 075

Project Reports titles - B.E.(Civil - A2)-VIII semester For Ay: 2021-2022 (Sample Titles)

s.	Roll Number	Name of the student	Title of	Name of the Guide
No			Project	***************************************
	160118732113	Ganugapenta Venkata Aravind	Performance Of	Dr. M. V. Krishna Ra
	160118732313	Shaik Shanawaz	Concrete On Partial	
	160118732083	Gnaneswar Sarma	Replacement Of Fine	
		Vanapamala	Aggregate With Perlite	
	160118732103	Shashiteja Kalleti	Effect Of Elevated Temperatures On The Properties Of Standard Grade	Dr. M. V. Krishna Ra
	160116732314	Dileep M	Concrete Containing Perlite	
	160118732116	Vivek Vardhan Vanipenta	As AReplacement Of Fine Aggregate- An Experiment al Study	
	160117732116	Syed Mohammed Sadiq Basha	Integration Of Spatial Data Of Roads And	Prof. S.S.V.Chalam
	160118732062	Bhayana Gaddamidhi	Accidents Related	
	160118732002	E Spandan Kumar	Using QGIS	
		Broken Medical and account of the control of the co	(Max = 20)	
	160118732067	Aljapur Shivani	Seismic Behaviour	Prof. P.
	160118732069	Sirichandana Dasi	Of Retrofitted	Sreenivas Sarma
	160118732087	Kalyan K	Rc FramedMulti Storeyed	
			Building – A Focus On	Sri. A. BalajiRao
	160118732099	Naikoti Saikiran	Pushover Analysis Of	SII. A. Dalajikao
	160118732110	B Vamshi Vikyath	- Multistorey	
	160118732070	Srivani Sheshagani	Building Using Etabs	
	160118732095	M Ramcharan	p	Sri G. Bhaskar Reddy
	160118732082	D Ganesh Kumar	Capacity OfSoil By Using Admixtures	
	160118732102	Velpumadugu Sanjeev Kumar	Oshig Admixtures	
	1601187320	Govathoti Anusha	Justaniasis	Sri T. Vasudeva
10	61		Materials	Rao
	2069		For	
	1601187320 63	Simra Jabeen	Concrete	
	1601187320	Patnam Rebecca Florence		
	65			
	1601187320	Mushke Hemanth	Seismic	Sri P. Srinivas
1	85		Analysis Of	Reddy
	83		Multi-Store	

PROFESSOR & HEAD
Department of Civil Engineering
Technology

1601187323 16	Aadikeshava Reddy	Experiment al Study On Self- Compacting	Sri V. SaiTeja
1601187323 10	Tejasree Ala	Concrete Using FlyAsh And Ggbs	
1601177321 05	A. Sai Sashikanth		
1601187321 01	Sai Teja Chinthakuntla	Experimental Study Of Concrete Using	Sri V. SaiTeja
1601187320 91	Nagarjuna Banoth	Recycled Aggregates and Fly Ash	8
1601177320 83	Ch Goutham		

S . N o	Roll Number	Name of the student	Title of The Project	Name of The Guide
	1601-17- 732-006	Gorre Manisha	Analysis Of Cable Stayed Bridges Using Staad Pro	Dr.K.Jagga nadha Rao
	1601177 32014	Kuruba Sindhu		
	1601177 32051	Arsha Shiva Charan		
	1601-17- 732-02	Bojja Anupama Reddy	Seisimic Analysis Of MultistoriedBulding (Dr.M.Koti Reddy
	1601177 32012	K Sandhya	G+10) With And Without Shear Walls	
	1601177		150	

	32059	Chinta Vishwa Vignan		
	1601-17- 732-23	Kommu V B S Bharath Chandra	Seismic Strengthening of Multi Storey Building With Soft	
	1601177 32048	Lanka Saikumar	5	
	1601177 32304	S V Muthesham Ahmed		
	1601177 32050	Sama Samar Simha Reddy	Preparation of thematicmaps for change detection in	Sri.S.S.V.C halam
	1601177 32026	K Karthik Choudary	rangareddydistrict using GIS	
	1601177 32049	Burra SakethReddy		
	1601177 Latti Sreeja 32016	Latti Sreeja	An investigative numerical study on a RCC framed residentialhigh-rise building	Sri.P.Srinivas Sarma
	1601177 32046	Adike Sai Pradhyumna	subjected to gravity and lateral loads	
	1601177 32019	Malyala Ajay Kumar		
	1601177 32022	Bhanu Prakash Bommanaboina	Effect of Bay Width OnDesign Parameters	Dr.A.Vimala
	1601177 32303	Mohammed Faheem Uddin		
	1601177 32060	Abrar Manzoor		
	1601177 32013	Manubothula Shivani	Stabilizing expansivesoil with cement	Sri.G.Bhas kar Reddy
98	1601177 32017	Matam Tejaswini		

PROFESSOR & HEAD
Department of Civil Engineering
Chaitenya Bharathi Institute of Technology
GANDIPET, HYDERABAD-5600 075

Experiential Learning Methodologies used by Chemical Engineering department:

Industrial Internships Department of Chemical Engineering (From A.Y 2017-18 to A.Y 2021-22)

Academic	No of students	s done Internshi	n		
Year	1 to 3 weeks duration	3 to 6 weeks duration	More than 6 weeks duration	Whole Semester duration	Total no of students done internship
2017-18		3	- maracion	duration	
2018-19	2		-	-	3
2019-20		12	-	•	2
2020-21		12	-	-	12
	-	12	7/2		12
2021-22	7.	15	0	10-	12
		13	9	6	30



Industrial visit Report – Aurobindo Unit 5, Hyderabad on 26-09-2017

Date of Visit: 26-09-2017

Industry

: Aurobindo Unit 5

Place:

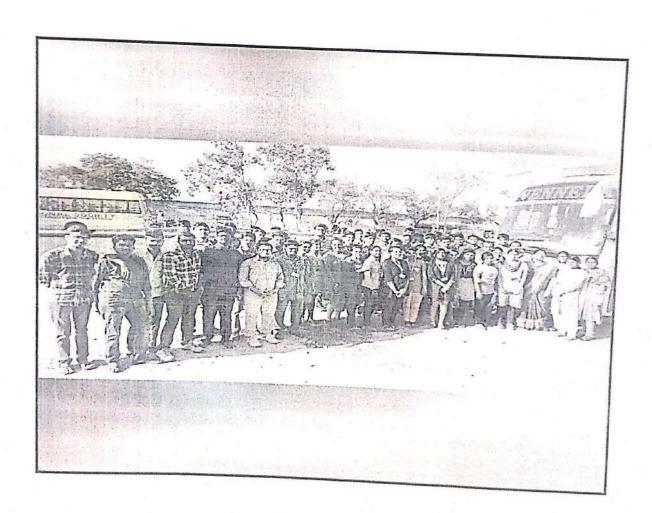
Hyderabad,

Staff Attended: 1Nos.

Sri I. Bala Krishna

Students Attended: 30 Nos.

Photographs:



Industrial visit Report - Aurobindo Unit 1, Pashamailaram

Hyderabad on 12-01-2018

Date of Visit: 12-01-2018

Industry

: Aurobindo Unit 1, Pashamailaram

Place :

Hyderabad,

Staff Attended: 3Nos.

1. P. Madhuri,

2. Sri. K.Prasad Babu.

3. Sri V.Sanjeeva Reddy

Students Attended: 43 Nos.

Brief report on industrial visit organized during Jan 2018 to Aurobindo Pharma-Unit I at Pashmailaram, Secunderabad

We the students of B.Tech Chemical engineering 2/4 were given permission for a one day visit to one of the most esteemed industries "Aurobindo Pharma", Pashmailaram, Secunderabad; where we were exposed to various important chemical processing units. This industrial visit has not only enhanced our theoretical knowledge but also helped us to experience working environment in a chemical process plant.

A batch of 43 students were accompanied by our staff, P.Madhuri . K.Prasad Babu, M. Shipley. The company bus picked us at JNTU-H at 8:30 AM. After a 45min drive, we reached the plant.

"Aurobindo- Committed to healthier life" is a pharmaceutical plant. The Aurobindo team gave us a very warm and hearty welcome. The team gave us an extraordinary presentation about the role of chemical engineers in any processing industries, important unit operations working procedures, types of reactors, processing of important products etc. The team have also shown videos on the working of plate and filter press, shell & tube heat exchangers, centriguge, distillation units, crushers, drying etc. During the presentation we came to know that the plant is Asia's largest sterile pencillin manufacturing unit. The unit -1 production mainly involves steroids, semi-synthetic pencillin, antibiotics etc which is approved by USCPA.

After gleaming a broad perspective and foundation about unit operations & processes, we were divided into 4 teams, each team accompanied by 2 plant supervisors and 1 faculty member. We explored the following during the visit:

- (a). Production block
- (b). Water treatment plant

MIN

(c). Solvent recovery section-Distillation unit

1.Production Unit- In this block the API(active pharmaceutical ingredients) are prepared. The products manufactured are Amoxylin, Trihydride, Naphthalene sodium. The experts explained us about the working of glass lined reactor and stainless steel reactor. They also made us aware of the safety measures that they follow while production. Then we were taken to material processing section, where important unit operations such as crystallization, centrifugation, bleaching etc were being carried out on continous scale. The products are prepared & maintained at a certain temperature, humidity and are exported to other nations such as US, Germany, Japan & China.

- Water Treatment Plant- The hard/ unpurified water is treated to obtain pure/ soft water.
 This water is then utilized for processes during production. In this section we learnt about reverse osmosis and properties of different filters.
- 3. Distillation unit- The separation process is being carried out in this section. Steam distillation process is being used and the required components are extracted from the top section.

We hereby conclude that the industrial trip was really informative and productive. Now, we could connect and relate to the theoretical concepts, by the practical knowledge acquired from the plant visit.

Our sincere and special thanks to Aurobindo pharma team, Principal Sir, HOD & I/C Staff members.

Photographs:





Community Engagement by Chemical Engineering department

As part of the academic regulations students will be understanding the community and prepare a report for evaluation

	tment of Chemical Engir	eering: II sem BTech Chemical Engineering students	
	021-2022	ent data	
Sno.	Roll nos	Title	Proof link
1	1601-21-802-001		https://drive.goog
	1601-21-802-011		e.com/drive/folde
	1601-21-802-021	Rural schools	rs/1L2N6LCvKpLN
	1601-21-802-031		bk2F_F02QPoieyyl
	1601-21-802-041		Qv6s
2	1601-21-802-002	Swachh Bharat	
	1601-21-802-012		
	1601-21-802-022		
	1601-21-802-032		
	1601-21-802-042	*	
3	1601-21-802-003	Agriculture and Climate change in Rural Areas	_
	1601-21-802-013		
	1601-21-802-023		
	1601-21-802-033		
	1601-21-802-043		
4	1601-21-802-014	MISSION BHAGIRATHA	-
	1601-21-802-024	Production of the American State of the Stat	
	1601-21-802-034		
	1601-21-802-044		
5	1601-21-802-005	Interaction With Village Leaders	-
	1601-21-802-015		
	1601-21-802-025		
	1601-21-802-035		
	1601-21-802-008		
6	1601-21-802-006	SURVEY ON MISSION ANTYODAYA	
	1601-21-802-016		
	1601-21-802-026		
	1601-21-802-036	H V	
-	1601-21-802-018		-
7	1601-21-802-007	Infrastructural resources and mid-day meal	
	1601-21-802-017	scheme in rural schools	
	1601-21-802-027		

	1601-21-802-037	
8	1601-21-802-009	Rural education
	1601-21-802-019	- Cuttation
	1601-21-802-029	
	1601-21-802-039	
9	1601-21-802-028	MID-DAY MEALS
	1601-21-802-038	
	1601-21-802-010	- Administration of the Control of t
	1601-21-802-020	
	1601-21-802-030	
	1601-21-802-040	

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VIII SEM Projects by Chemical Engineering department

Undergraduate students of Chemical Engineering carry out their project work in VIII sem within and outside the campus where they will take up a research statement and work on it for getting experience in handling and troubleshooting the problems experienced during the project tenure

Outcomes from the project thesis:

S. N	Faculty	Student Details	UG Project Title	Publication Details	Proof Link
1	Dr. M. Kalyani (Resigne d &	Arani Nandakum ar Chandana, Dimple Katikela	Effects of process parameters in anaerobic digester for production of biogas from food waste	M Kalyani, Arani Nandakumar Chandana, Dimple Katikela, "Effect of Process Parameters on Production of Biogas from Food Waste", International Journal of Advance Research, Ideas and Innovations in Technology, 7(3), pp. 2040- 2043, June2021.	https://scholar.s
No.	releived on 17-03- 2022)	Shalini Suran, P Ramya	Effects of inoculum to feedstock ratio on anaerobic digestion of food waste	M Kalyani, Shalini Suran, P Ramya, "A Critical Review on the Effect of Feed to Inoculum Ratio on Biogas Digestion", International Journal of Research in Science & Technology, 11(2), pp. 1-15, June 2021.	oogle.co.in/cita ions?user=79Qc 7cwAAAAJ&h =en
, ,	Madhuri	Mamidala Akanksh, Kamma Rithush- VIII Sem	Preparation & Characterizat ion of Biodegradabl e Plastic from	Mamidala Akanksh, Kamma Rithush, Pydimalla Madhuri*, "Challenges and opportunities of Bioplastics for Sustainable Development", 8753	https://drive.goo gle.com/file/d/1 WCefhzc- GreyK3jiaB- rwhVIGFmZPm Ag/view?usp=sh aring

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Details of the Main Contributions by Conveners and Research Coordinators to the Success of the Research Day-2021

S. No	Dept.	Name of Convener / Research Coordinator	Responsibilities
1	Chemical Engineering	Dr. Harikrishnan N Member – DRC, Assistant Professor, Chemical Engg	Monitored the payment of the students from the department Conveyed the link details to students from III, V and VII sem students for attending the presentation and whole event Conveyed the link details to Faculty members of the department to attend the presentation and whole event 4. Coordinated with the oral presentation through technical issue in session 2
2	Chemical Engineering	Dr Harsha Nagar, Convener – DRC, Assistant Professor, Chemical Engg	 Prepared Chemical engg department report on faculty and student achievements eport to be read out as part of department sessions. Encouraged and followed up with students to participate in the event and also to present their work. Conveyed the event details to faculty members and students and monitored their participation
3	Chemical Engineering	Dr Naga Prapurna P V., Chairman – DRC, Incharge HoD and Associate Professor, Chemical Engg	1. Coordinated with Convener for Biotech & Chemical Engg in organizing oral sessions 2. Coordinated with chemical engg dept Research Coordinators in contributing to the organization plans and execution in support to Biotech faculty 3. Coordinated the common oral sessions of Biotech & Chemical Engg dept 4. Presented closing remarks before vote of thanks



Participative Learning Methodologies used by Chemical Engineering Department:

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY Department of Chemical Engineering 2017-18

1. Department Activities :

Seminars / Workshops/Guest lectures Organized:

One day workshop in Collabaration with Dr. Reddy Labs, Hyd for B.Tech 1*, 2*, 3*
 4* year students on Jan 31* 2018. "The Best Manufacturing Practices In Chemical Letters"

Chemical Industry".

2. The ChemSpark-2017 a student national level technical paper symposium under Sudhee-2017 conducted by Department of Chemical Engineering on 15^a & 16^a Sep'2017. Dr.B. Sreedhara Rao HOD & Associate Professor, Chemical Engg. was Chairman, K. Prasad Babu, Assistant Pofessor, was Convener, P. Madhuri, Assistant Professor, was Coordinator. The papers received was around 180. The keynote address is given by very prominent Academician Sri R. C. Sastry Garu, Professor(Rtd), NITW. The judges for the event were from reputed institutions like NITW and S.V. University.

A guest lecture was organized for B.TECH IV SEM on 19^a Feb 2018.
 Speaker: Dr.S.Vikranth., Assistant Professor, BITS HYDERABAD. Topic: Transport of

Fluids through porous media applications.

 A guest lecture was organized for B.TECH VI SEM on 22nd Jan 2018. Speaker: Mr. Pranav Baswanth, Product Assurance Engineer, CTS-Schneider Electric, Topic: Semi continuous Distillation

- A guest lecture was organized for B.TECH 4/4 on 29^a Jan 2018. Speaker: Mr. Suraj Peri, Topic: Data Analysis.
- A guest lecture was organized for B.TECH 4/4 on 15° Feb 2018. Speaker: Sri. A. Paramesha, Deputy Manager, EIL, Delhi, Topic: Process Design and Engineering Activities

2. Student Acheivements

- The 2nd, 3nd, 4nd yr Chemical Engg students have actively participated and won prizes in numerous *National & International Technical events/Conferences*.
- The students were also instrumental in *publishing* their work in reputed journals.
- Summer internships were taken up by the students in reputed organizations and they have successfully completed their training programme.

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CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

Department of Chemical Engineering Achievements- 2018-19

Events Organized 2018-19.

- Dr. P V Naga Prapurna, Vice-chairman committee, one day national seminar on "Water and Environment" organized by environmental club, PARIVRITHA-CBIT, 22~ March 2018.
- 2. The Chem-Spark-2018 a student national level technical paper symposium under Sudhee-2018 conducted by Department of Chemical Engineering on 28th & 29th Sep'2018. Dr. B. Sreedhara Rao HOD & Associate Professor, Chemical Engg. was Chairman, M Kalyani, Assistant Professor, was Convener, Dr. B Ganesh, Assistant Professor, was Coordinator. The papers received were around 90.

3. A guest lecture was organized for B.TECH IV SEM on 19^a Feb 2018. Speaker: Dr. S. Vikranth, Assistant Professor, BITS HYDERABAD. Topic: Transport of Fluids through porous media applications.

4. A guest lecture was organized for B.TECH 4/4 on 15th Feb 2018. Speaker: Sri. A. Paramesha, Deputy Manager, EIL, Delhi, Topic: Process Design and Engineering Activities.

Student Acheivements

- 1. The 2nd, 3nd, 4th year Chemical Engg students have actively participated and won prizes in numerous *National & International Technical events/Conferences*.
- 2. The students were also instrumental in *publishing* their work in reputed journals.
- 3. *Summer internships* were taken up by the students in reputed organizations and they have successfully completed their training programme.

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CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

2.3.1 (A) Experiential Learning Methodologies used by CSE Department

Industrial Internships

Academic	Total no of students carried out internship			
Year	Summer Internships	Final Year Internships	Total Number of Internships	
2017-18	3	45	45	
2018-19	- 2	93	93	
2019-20	260	113	373	
2020-21	266	149	415	

Community Engagement

AY: 2021-2022

S. No	Roll No	Title
1	1601-21-733-071	Self Help Groups
	1601-21-733-072	, ,
	1601-21-733-073	
	1601-21-733-074	
	1601-21-733-075	
2	1601-21-733-076	Mid-Day Meals
	1601-21-733-077	8
	1601-21-733-078	
	1601-21-733-079	
	1601-21-733-080	
3	1601-21-733-081	Anganwadi Center
	1601-21-733-082	
	1601-21-733-083	
	1601-21-733-084	*
	1601-21-733-085	
4	1601-21-733-086	Anganwadi Center
	1601-21-733-087	3,0
	1601-21-733-088	
	1601-21-733-089	
	1601-21-733-090	
5	1601-21-733-091	Mid-Day Meals
li M	1601-21-733-092	
	1601-21-733-093	
-	1601-21-733-094	
	1601-21-733-095	
6	1601-21-733-096	Self Help Groups
	1601-21-733-097	
	1601-21-733-098	
	1601-21-733-099	
	1601-21-733-100	144

7	1601-21-733-101		
	1601-21-733-102	Organic Farming	
	1601-21-733-103		
	1601-21-733-104		
	1601-21-733-105	_	
8	1601-21-733-106		
	1601-21-733-107	Mid-Day Meals	
	1601-21-733-108		8.
	1601-21-733-109		· · · · · · · · · · · · · · · · · · ·
	1601-21-733-110		
9	1601-21-733-111	Self Help Groups	
	1601-21-733-112	orning Groups	
	1601-21-733-113	,	
	1601-21-733-114		
	1601-21-733-115		
10	1601-21-733-116	Self Help Groups	
	1601-21-733-117	The state of	
	1601-21-733-118		
	1601-21-733-119		
	1601-21-733-120		
11	1601-21-733-121	Organic Farming	
	1601-21-733-122		*
	1601-21-733-123		
	1601-21-733-124	· · · · · · · · · · · · · · · · · · ·	
	1601-21-733-125		"•
12	1601-21-733-126	Self Help Groups	
1	1601-21-733-127		
	1601-21-733-128		
1	1601-21-733-139		
	1601-21-733-130		
13	1601-21-733-131	Mid-Day Meals	
	1601-21-733-132		
	1601-21-733-133		
	1601-21-733-134		
	1601-21-733-213	13	

AY: 2020-2021

S. No	Roll No	Title
1	1601-20-733-121	Study on Organic Farming
	1601-20-733-121	
	1601-20-733-121	
	1601-20-733-121	
	1601-20-733-121	
2	1601-20-733-122	Rural Schools and Mid-Day meals
	1601-20-733-133	The contract was a street of the second
	1601-20-733-144	
	1601-20-733-155	
	1601-20-733-166	
3	1601-20-733-123	Study on academic and infrastructural resources and gaps in
	1601-20-733-134	Rural schools

	1601-20-733-145	
	1601-20-733-156	
	1601-20-733-167	
4	1601-20-733-124	Study on academic and infrastructural accourage and
	1601-20-733-135	Study on academic and infrastructural resources and gaps in Rural schools
	1601-20-733-146	remai schools
	1601-20-733-157	
	1601-20-733-168	
5	1601-20-733-125	Omania Culti vi u i l oi l i u
	1601-20-733-136	Organic Cultivation, rational use of irrigation and fertilizers an
	1601-20-733-147	promotion of traditional species of crops and plants.
	1601-20-733-158	
	1601-20-733-169	
6	1601-20-733-169	P. 101 1 12015
,	1601-20-733-126	Rural School and Mid-Day Meals
	1601-20-733-148	
0	1601-20-733-159	
7	1601-20-733-170	0.1011.1.0
I	1601-20-733-127	Self Help Groups
	1601-20-733-138	
	1601-20-733-149	
	1601-20-733-160	
0	1601-20-733-171	
8	1601-20-733-128	Organic Farming and Development Activities
	1601-20-733-139	
	1601-20-733-150	T _S
	1601-20-733-161	
	1601-20-733-172	
9	1601-20-733-129	Rural Schools and Mid-Day Meals
	1601-20-733-140	
9	1601-20-733-151	
	1601-20-733-162	
10	1601-20-733-173	
10	1601-20-733-130	Anganwadi
	1601-20-733-141	
	1601-20-733-152	
11	1601-20-733-163	10. 1
11	1601-20-733-131	Study on SHG functions and challenges, planning for their skill
	1601-20-733-142	building and livelihood activities.
	1601-20-733-153	= =
	1601-20-733-164	
12	1601-20-733-175	Annual Control Kod
12	1601-20-733-176 1601-20-733-177	Anganwadi Center in Kondapuram
	1601-20-733-177	
	1601-20-733-178	
	1601-20-733-179	

Learning by Doing - CSE department

Undergraduate students of CSE department will be trained in practical sessions along with theory during their 4 year course work where they will be exposed to various learning the theoretical concepts in a practical way.

S.No	Name of the Labs	Semester					
1	Basic Electrical Engineering Lab						
2							
3	3 Data Structures Lab						
4	Mathematical Foundation for Data Science & Security Lab						
5	Design and Analysis of Algorithms Lab	IV Sem					
6	Data Base Management Systems Lab						
7	Internet & Web Technologies Lab						
8	Operating Systems Lab						
9	Data Communication and Computer Networks Lab	V Sem					
10	Case Studies using UML Lab						
11	Compiler Design Lab						
12	Artificial Intelligence Lab	VI Sem					
13							

CBIT(A)

20EEC02

BASIC ELECTRICAL ENGINEERING LAB

Instruction
Duration of End Examination
Semester End Examination
Continuous Internal Evaluation
Credits

2 Hours per week 3 Hours 50 Marks 50 Marks

Course Objectives: The objectives of this course are

- To acquire the knowledge of different types of electrical elements and to verify the basic electrical circuit laws and theorems.
- 2. To determine the parameters and power factor of a coil, calculate the time and frequency responses of RLC circuits and to familiarize with measurement of electric power & energy.
- 3. To determine the characteristics of Transformers, dc, ac machines and switchgear components

Course Outcomes: On Successful completion of this course, student will be able to

- 1. Get an exposure to common electrical components, their ratings and basic electrical measuring equipment.
- 2. Make electrical connections by wires of appropriate ratings and able to measure electric power and energy.
- 3. Comprehend the circuit analysis techniques using various circuital laws and theorems.
- 4. Determine the parameters of the given coil and calculate the time response of RL & RC series circuits.
- 5. Recognize the basic characteristics of transformer and components of switchgear.
- 6. Understand the basic characteristics of dc and ac machine by conducting different types of tests on them.

Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes:

PO/PSO	PO	PSO	PSO	PSO	PSO											
CO	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
CO I	2	2	1	1	-	-	1	1	2	1		1	-	1	1	1
CO 2	2	1	1	1		•	1	1	2	-1		1	-	1	1	1
CO3	3	3	2	1		-	1	-	2	1	-	1	-	1	1	1
CO 4	3	1	2	1	-	-	1	-	2	1		1	-	1	1	1
CO 5	3	3	2	3	-	-	1	-	2	1	-	1	-	1	ī	1
CO 6	3	3	2	2	-	-	1	-	2	1	-	1	-	1	1	1

List of Laboratory Experiments/Demonstrations:

- 1. Demonstration of Measuring Instruments and Electrical Lab components.
- 2. Verification of KCL and KVL.
- 3. Time response of RL and RC series circuits.
- 4. Determination of parameters of a choke or coil by Wattmeter Method
- 5. Verification of Thevenin's and Norton's theorems
- 6. Turns ratio /voltage ratio verification of single phase Transformers
- 7. Open Circuit and Short Circuit tests on a given single phase Transformer
- 8. Observation of Excitation Phenomenon in Transformer
- 9. Measurement of three phase power in a balanced system using two Wattmeter method.
- 10. Measurement of 3-Ph Energy by an Energy Meter (Demonstration of Principle)
- 11. Load test on DC Shunt motor
- 12. Speed control of DC Shunt motor
- 13. Demonstration of Low Tension Switchgear Equipment/Components
- 14. Demonstration of cut out section of Machines like DC Machine, Induction Machine etc.

Note: TEN experiments to be conducted from the above list.

CBIT(A)

20ECC36

BASICS ELECTRONICS LAB

Instruction Duration of End Examination Semester End Examination Continuous Internal Evaluation Credits

2 Hours per week 3 Hours 50 Marks 50 Marks

Prerequisite: Students should have prior knowledge of Applied Physics and Semiconductor Physics.

Course Objectives: The objectives of this course are

- Learn about various electronic components, devices and systems.
- Study the operation of CRO.
- 3. Study the transistor characteristics in different modes.
- Analyze application of diodes and transistors.
- Learn about analog circuits and digital circuits operation.

Course Outcomes: On Successful completion of this course, student will be able to

- Demonstrate the concepts of basic electronic components, devices, and systems.
- Analyze the measurements of time period, amplitude and phase of different waveforms.
- 3. Design and analyze the behavior of the diode and transistor circuits
- 4. Develop various types of feedback and power amplifiers
- Examine the functionality of various analog and digital circuits

Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes: PSO PSO PSO PSO PO PO/PSO 3 4 2 12 ı 9 10 11 7 8 6 5 2 3 4 CO 2 1 2 1 2 2 2 1 2 1 2 3 2 2 1 COI 2 1 1 1 2 2 2 1 1 2 2 1 CO₂ 3 1 1 2 1 1 1 2 1 2 2 2 1 1 2 1 1 3 1 CO₃ 2 1 1 1 2 2 2 2 2 2 2 1 3 3 2 3 CO 4 1 2 1 2 1 2 1 1 2 2 1 2 2 CO 5

List of Experiments:

- 1. Study of Electronic components.
- 2. Characteristics of Semiconductor diodes (Ge, Si and Zener).
- 3. CRO and its Applications.
- 4. Half, Full wave rectifiers with and without filters.
- Voltage Regulator using Zener diode.
- Characteristics of BJT in CE Configuration.
- Characteristics of FET in CS Configuration.
- Amplifier with and without feedback.
- 9. RC Phase shift oscillator
- Operational Amplifier and its applications.
- 11. Power Amplifier Characteristics.
- 12. Realization of Half and Full adder
- Structured Enquiry: Design a switching circuit using BJT and analyse its operation.
- 14. Open ended Enquiry: Design a suitable 10watt audio amplifier.

Text Books:

- 1. Paul B. Zbar, Albert P. Malvino, Michael A. Miller, Basic Electronics, A Text Lab Manual, 7th Edition, TMH, 1994
- 2. Paul B. Zbar, Industrial Electronics, A Text Lab Manual, 3rd Edition.

CBIT(A)

20CSC11

DATA STRUCTURES LAB

Instruction
Duration of End Examination
Semester End Examination
Continuous Internal Evaluation
Credits

4 Hours per week 3 Hours 50 Marks 50 Marks

Pre-requisites: Any Programming Language

Course Objectives: The objectives of this course are

- Understand basic concepts data structures and abstract data types.
- 2. Differentiate between linear and non-linear data structures.
- 3. Analyze various searching, sorting and hashing techniques.

Course Outcomes: On Successful completion of the course, students will be able to

- 1. Implement the abstract data type.
- 2. Implement linear data structures such as stacks, queues using array and linked list.
- 3. Implement non-linear data structures such as trees, graphs.
- Analyze various sorting techniques.
- 5. Analyze various algorithms of linear and nonlinear data structures.
- 6. Design and develop real world problem using suitable data structures.

PO/PSO	PO	ro	10	PO	PO	PSO	PSO	PSO	PSC							
CO	1	2	3	4	5	6	7	3	9	10	11	12	1	2	3	4
COI	2	1	1	1	•								3	1		
CO 2	2	1	1	1									3	1		
CO 3	2	1	1	1			-						3	1	-	
CO 4	1	2	2	1	•		•	•	-				3	2	2	1
CO 5	1	2	2	1									3	2	2	1
CO 6	2	3	3	1	1			1	1	1	1	2	3	3	3	T

List of Experiments

- 1. Implementation of Quick Sort, Merge Sort, Selection Sort, Radix Sort.
- 2. Implementation of Insert, Delete and Search operations on Single Linked List.
- 3. Implementation of Insert, Delete and Search operations on doubly Linked List.
- 4. Implementation of skip list.
- 5. Implementation of Stack using array and linked list.
- 6. Converting of Infix Expression to Postfix.
- Implement the algorithm for Evaluation of Postfix.
- 8. Implementation of Queue using array and linked list.
- 9. Implement application of queue.
- 10. Implementation of Binary Tree Traversals.
- 11. Implementation of Binary Search Tree.
- 12. Implementation of Heap Sort.
- 13. Implementation of Graph Traversal Techniques.
- 14. Implementation of Hashing.
- Implementation of string matching algorithm.
- Case study- Given a page of text from a textbook, break each sentences into words, remove whitespaces, punctuations, special symbols from it. Convert all words into unique case (i.e. either lower or upder case)

With effect from the academic year 2021-22

CBIT(A)

Perform the following task on those words- find the frequency of each word, find the top k words which are frequent and construct word cloud on those top k words. (Similar type of case studies can be given by the faculty)

Text Books:

- 1. Brian WKernighan, Dennis Ritchie, "C Programming Language", PH PTR, 2nd Edition.
- 2. Richard M Reese, "Understanding and Using C Pointers", O'Reily, 2013.
- Narasimha karumanchi, "Data Structures and Algorithms Thinking Publications, 2020

 with Python ", Career Monk

Online Resources:

- 1. https://nptel.ac.in/courses/106102064/
- https://www.udemy.com/algorithms-and-data-structures-in-python/

20MTC14

MATHEMATICAL FOUNDATION FOR DATA SCIENCE & SECURITY LAB

R- Programming/C/C++

 Instruction
 2 Hours per week

 Duration of End Examination
 3 Hours

 Semester End Examination
 50 Marks

 Continuous Internal Evaluation
 50 Marks

 Credits
 1

Course Objectives: The objectives of this course are

- 1. Able to learn and Analyzing data in Linear and Non-Linear form.
- 2. Able to fit the hypothetical data using probability distribution.
- 3. To know the characteristic of various continuous probability distributions
- 4. To know the impact of number theory before computer age.
- 5. To know the security issues of Cryptography

Course outcomes: On successful completion of this course the students shall be able to

- 1. Analyze the coefficient of skewness and fitting of the data by various methods
- Apply properties of Mathematical Expectations and analyze the various distributions.
- 3. Evaluate areas of curves by using various distributions.
- 4. Apply various technics of Number Theory for solving problems
- Apply RSA –PKC for solving security issues.

CO	1	2	3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO	PSO 2	PSO 3	PSC
CO I	2	2	-	-	-	-	-	-	-	-	-	1	<u> </u>	1	1	1
CO 2	2	2	-		-	-	-		-	-	-	1	l i	-i-	<u> </u>	1
CO 3	2	2	1	-	31.7	-	-	-	-	-	-	1	1	Ť	<u> </u>	1
CO 4	2	2	1	•	-			-	-	-	-	Ť	+	i	1	1
CO 5	2	2	1	-	-		-	-	-		-	<u> </u>	+i	<u> </u>		1

List of Programs

- 1. Write a Program for Create Graphs and Charts
- 2. Write a Program for Calculate measures of Central Tendency for the data
- 3. Write a Program for Standard Deviation for the data
- 4. Write a Program for Correlation and Covariance using Pearson method
- 5. Write a Program for simple linear Regression and Logistic regression
- 6. Write a Program for Compute probabilities using Binomial Distribution
- 7. Write a Program for Compute Probabilities using Poisson Distribution
- 8. Write a Program for Compute Probabilities using Normal Distribution

Remark: The programs 1-4 are quite elementary.

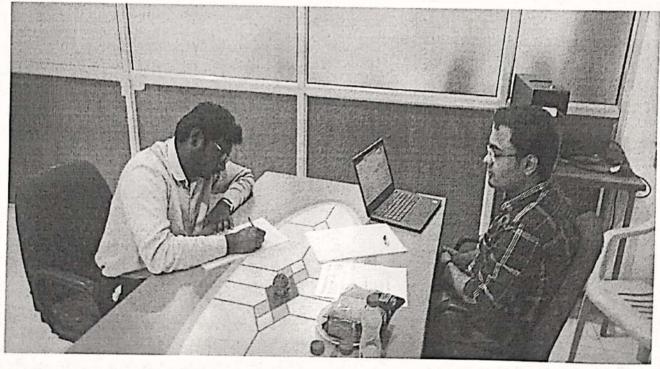
Text books:

- 1. S. R. Mani Sekhar, Dr. T.V. Suresh Kumar, "Programming with R" CENGAGE Publishers, 2017.
- 2. K. G. Srinivasa, G. M. Siddesh, "Statistical Programming in R", Oxford University Press, 2017.
- Jared P Lander, "R for Everyone" Pearson.2018.

Online Resources:

http://www.cyclismo.org/tutorial/R/





GROUP ASSIGNMENTS

Drive link: https://drive.google.com/drive/folders/1fAbla1R5nhmZJPNrbYwC1 U9Euu7QtCA7?usp=sharing

Group No	Roll No	Titel
1	160120733115- Linga Sravan	BMW AUTOMOBILE CLONE
2	160120733095 - Bhanu Prakash	Groww Clone
	160120733100 - K Hemananda Reddy	a com cione
	160120733101 - Jayesh Dhoot	i
	160120733106 - G Ragul	
	160120733107 - GR Rohith	
3	160120733062-Aditi Varma	DROMOMANIA TRAVEL
	160120733069-Hamsitha Kotla	SUGGESTION WEBSITE
	160120733070-Harshita Kalva	SOCIETION WEBSITE
	160120733081-Sneha Boorla	
	160120733091-Aditya Yerbati	
	160120733098-Dheeraj Nune	
4	160120733082 – Sreeja Somavarapu	WHITE DOVE HOTEL
	160120733066 - Ashritha Reddy	WITTE BOVE HOTEL
	160120733065 – Arshia Parveen	1
	160120733064 - Anjali Vanam	
	160120733074 - Niveditha Reddy	
-	160120733077 - Roopika Ponnur	
5	160120733090 - Abhinav Sandru	SIMPLE EXPENSE MANAGER
	160120733099 - Harshavardhan VSK	SIVII EE EXTENSE MANAGER
	160120733102 - Mohd Asaduddin Amaan	
	160120733103 - G. Nithish Rao	ı
	160120733118 - Syed Md Kashan Naiyer	1
6	160120733094- G Ashish	RIOT GAMES
	160120733111- B. Satvik	
	160120733089- Abhinav JMS	
	160120733104- B. Koushik	
	160120733116- Sree Vardhan	
7	160120733110- R.Sankara Bharadwaj	Charisma Wedding – A
	160120733108 Sai Hemanth	Wedding Planner website
	160120733109 J.Sai Kumar	
	160120733117 Swaroop Patnaik	
	160120733119 Varshith Reddy Ravula	
8	160120733086- TEJASWI	ECCOMERCE WEBSITE
	160120733072- MANJUSHA	
	160120733078 -SAHITHI	
	160120733079- SATYA SUSHEELA	
	160120733112- SHARON	
	160120733114- SHIVA SAI	
9	160120733066- Asritha Reddy M	WHITE DOVE HOTEL
	160120733074- Niveditha Reddy M	

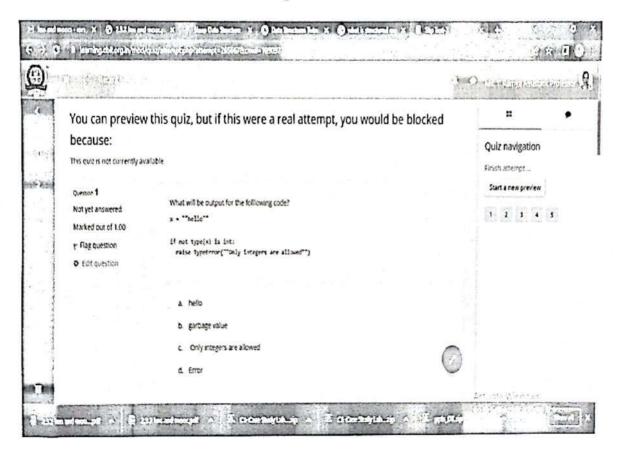
	160120733077- Roopika ponnuri	
10	160120733067- Basuri poloki	Planet Fitness
	160120733076- Rishika Ponna	
	160120733080- Shruthi Kunchakuri	
	160120733084- Srimeghana Akella	
	160120733087- Vaasuki Achampeta	
	160120733088- Yahshaswitha Sirineni	
11	160120733307- M NIKHIL	BOOK-LIB
	160120733071-M HARSHITHA	
	160120733073- V MEGHANA SREEYA	
	160120733120-R VIKAS SWAGATH	
	160120733308- V SAITEJA	l.
	160120733309-A SRIDHAR	
12	160120733063 (Team Lead) Amulya Nandala	Foodville Restaurant Website
	160120733061 Adhikya Edammala	
	160120733075 Poojitha Pachava	
	160120733083 Sreeni Tummuru	
	160120733085 Srinidhi Challa	

Case Study Lab

1.	160119733027				
2.	160119733029	The use of Revolutionary Paradigm of cloud computing by NETFLIX.			
3.	160119733030				
4.	160119733025	Const			
5.	160119733025	Green Cloud Computing			
6.	160119733012	Libra office in contract to Microsoft Office			
7.	160119733019	Libre office in contrast to Microsoft Office			
8.	160119733001	Artificial Intelligence in Video Games			
9.	160119733005				
10.	160119733013	Version Control Systems – Git and GitHub			
11.	160119733006	Version Control Systems – Git and Github			
12.	160119733022				
13.	160119733009	Conversational Al			
14.	160119733008	Conversational Ai			
15.	160119733011	Augmented Reality in Snapchat			
16.	160119733002	Augmented Reality in Shapehat			
17.	160119733010	Security Issues in Cloud Computing			

18.	160119733023				
19.	160119733026	Transformers (ML Model)			
20.	160119733020	Speech Conditioned Face Generation using Deep Adversarial Networks.			
21.	160119733004				
22.	160119733007	Google Maps			
23.	160119733031				
24.	160119733033	Apache Web Server			
25.	160119733024				
26.	160119733032				
27.	160119733034	ML in Mén's Football Application and Future Prediction.			

Quizzes



NAAC-SSR-Criteria 2.3: Teaching-Learning Process ECE Department

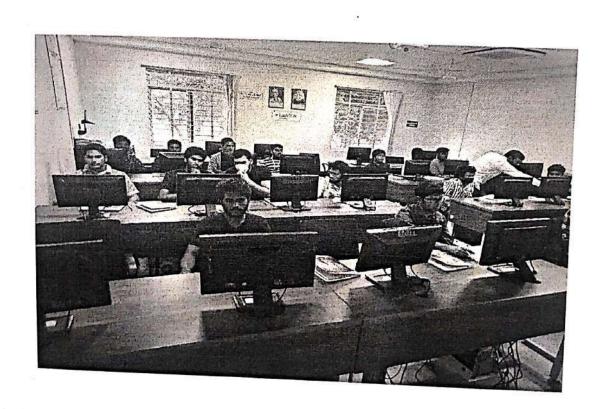
2.3.1. Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences.

I. Experiential learning Methodologies

Experiential Learning Methodologies adopted in the department of ECE are as follows:

- 1. ICT in Teaching Learning methods in Classrooms and Laboratories
- 2. Industrial Internships
- 3. Industrial Visits
- 4. Learning by Doing (Labs and Projects)
- 5. Community Engagement

1. ICT in Teaching Learning



2.Industrial Internships

The following no of students are participated in the industrial internships in various academic years from the Department of ECE

S.No Academic Yes		No. of students attended for internship 30-45 days	No. of students attended for one semester duration	
1	2017-18	25		
2	2018-19	113	22	
3	2019-20	269	13	
4	2020-21	101	50	
5	2021-22	126	92	





Autonomous Institute under UGC
Accredited four times by NBA-AICTE and accredited by NAAC-UGC
Chaitanya Bharathi P.O., Gandipet, Hyderabad - 500 075.

A REPORT ON THE EVENT

"VISIT TO NATIONAL INSTITUTE OF AMATEUR RADIO (NIAR)"

DATE: 6 January, 2018

TIMINGS: 10:00 am to 1:30pm

BRANCH COUNSELLOR: Sri G. Mallikharjuna Rao.

EVENT DETAILS:

National Institute of Amateur Radio (NIAR) is a Non-Governmental organization founded by Mr. S. Suri, VU2MY at Hyderabad. One of the main aim of it establishment, is to spread the awareness of Amateur radio activity amongst the people in India. Its vision is to build a world-class institution to support advancement of global Amateur radio activity in terms of promotion, training, government advocacy, technical support, knowledge repository and research, exceed the expectations with commitment, quality and excellent service. Its mission is to deliver services to Hams, communities, policy makers, organizations to accomplish integrated information systems and provide excellent second line pf communication through amateur radio.

The event was planned by IEEE CBIT. Almost 15 people, 3 EB members and a branch counsellor have attended this wonderful event. It's an industrial visit and went for 4 to 5 hours long. Students were given an insight on amateur radio and communication equipment used during the disaster management.

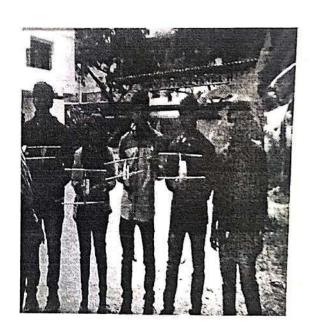
To make the visit interesting students were given a task to find out the transmitter using the signals from the receiver equipment. All the students felt contented at which the knowledge they have gained during the visit.

PICTURES OF THE EVENT:













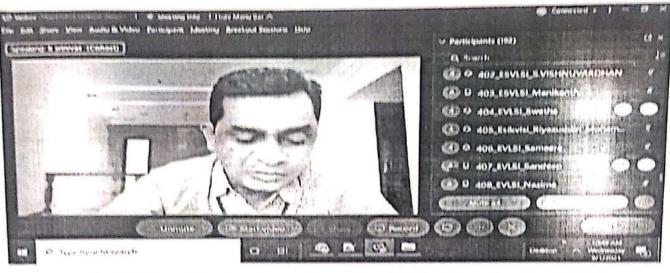
REPORT ON VIRTUAL INDUSTRIAL VISIT TO MCM INSTRUMENTS INDIA PVT LTD

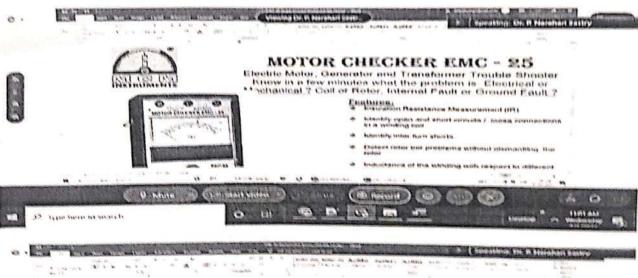
The department of ECE has organized a One-day virtual industrial visit to MCM Instruments India PVT LTD, Hyderabad, on 1st September 2021. The BE VII semester students of all three sections (E1, E2 & E3) and ME II semester students of two specializations (ESVLSID, CE) a total 231 students visited the organization. The MCM Instruments India PVT LTD, Hyderabad emerges as the undisputed conqueror in the arena of manufacturing condition monitoring instruments. It is established in the Year 2005. The entity is providing the unmatched quality of products like Vibration Test Equipments, Vibration Analyzers, Vibration Data Loggers, Bearing Condition Analyzers, Machine Conditioners, Electric Motor Checkers, Electronic Stethoscope and other items in the same category, at a very Competitive prices. The nominated faculty coordinators for this industrial visit were Dr. P. Narahari Sastry, Sri G. Mallikharjuna Rao and Smt. J Mounika. The scheduled timings for this industrial visits was 10:00 AM – 01:00 PM

The virtual industrial visit is accompanied by K.Srinivas, Incharge of Sales and Services in MCM Instruments PVT limited. He explained about Electric Motor Checker which is an analog motor checker using this we can measure motor winding, coil resistance, low resistance, an insulation resistance and inductance. He also explained about how to use Vibrator, Bearing Analyzer (BVT-111), Vibration tester (AVD-80). The screenshots are given below:









(Statistics | Caratics | Caratics

NAAC-SSR-Criteria 2.3: Teaching-Learning Process ECE Department

2.3.1. Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences.

III. Problem-Solving Methodologies

Problem-Solving Methodologies adopted in the department of ECE are as follows:

- 1. Open ended problems/ Structured Enquiry
- 2. Tutorials
- 3. Group Assignments
- 4. Working Models

1. Open ended problems/ Structured Enquiry

Open Ended and Structured Projects

Semester	Laboratory	Open ended enquiry	Structured Enquiry
ш	ELECTRONIC DEVICES LAB	Design a LED running lights circuit for vehicles to avoid accidents in fog/rain condition.	Design a switching circuit using BJT and JFET and analyse its operation.
Ш	ELECTRONIC WORKSHOP AND NETWORKS LAB	Design and Verification of Constant-K high-pass filter.	Design and Verification of Parallel Resonance.
	ANALOG CIRCUTS LAB	Design and implement a classroom sound monitoring system using BJTs and a 0.5W speaker.	Design a circuit that converts a given D.C Voltage to Frequency using BJTs and verify its operation.
IV	ANALOG COMMUNICATION LAB	Design a Phase Locked Loop for the given free running frequency and determine its capture range and Lock range.	Design a frequency mixer based on the given specifications and analyze its characteristics.
	DIGITAL SYSTEM DESIGN LAB	Design of a simple Digital System for real time applications.	Design of a counter for the given specifications.
v	DIGITAL COMMUNICATION LAB	Develop a code for different digital modulation schemes and verify through simulation. Design different Line coding schemes using logic Gates.	Design N-bit PCM encoder based on the given specifications.
V	DIGITAL SIGNAL PROCESSING LAB	Design a three stage multirate filter to meet the given specifications: Pass band cut off frequency: 450 Hz Stop band cut off frequency: 500 Hz	Design the best IIR band pass filter to meet the given specifications: Pass band cut off frequencies: [500 600] Hz Stop band cut

		Pass band ripple: ≤ 3dB Stop band attenuation: ≥ 40dB Sampling frequency: 40 KHz Compare with single stage filter.	off frequencies: [525 675] Hz Pass band ripple: ≤ 2dl Stop band attenuation: ≥ 60dB
	LINEAR AND DIGITAL INTEGRATED CIRCUITS LAB	Design a Digital Clock structure to display minutes and seconds. (Use only non- programmable ICs.)	Monitoring System (Use only nonprogrammable ICs.)
VI	ELECTRONIC DESIGN AND AUTOMATION LAB	Simulate a design using System Vivado and implement the same on Zynq Evaluation Development Board	Design and simulate a high- speed adder using Verilog HDL
	COMPUTER NETWORKS LAB	Design a Wireless Ad hoc Network and evaluate its performance.	Evaluate the performance of Data link/Network/Transport layer protocols.
VII	IOT AND SIMULATION LAB	Implementation of a Weather Monitoring System by an interfacing temperature sensor, pressure, etc.	Implementation of Smart Agriculture Monitoring System.
	MICROWAVE ENGINEERING LAB	Measurement of impedance for inductive /capacitive window in X-band frequency.	Calibration of given component in X-band frequency.

2. Tutorials

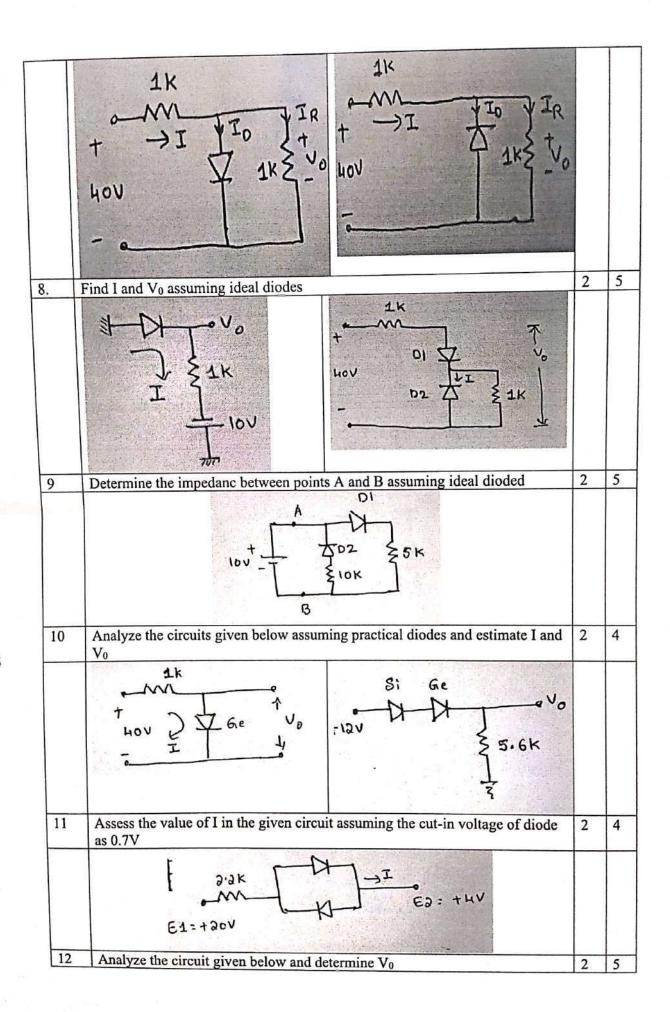
Chaitanya Bharathi Institute of Technology (A)

Department of Electronics and Communication Engineering

Electronic Devices (18EC C02) Tutorial

Date: 16.09.2020

Q.N o		C	B
l I	For what voltage will the reverse current in p-n junction Germanium diode reach 90% of its saturation value at room temperature?	-	4
2	If the reverse saturation current is 10 μ A, calculate the forward currents for a voltage of 0.2V, and 0.3V respectively.	2	3
3	Find the value of D.C resistance and a.c resistance of a Germanium junction diode, if the temperature is 25°C and I_0 = 20 μ A with an applied voltage of 0.1V.		4
4	A Si diode operates at a forward voltage of 0.6V. Calculate the factor by which the current will be multiplied when the temperature changes from 25 to 150°		5
5	The circuit given below consists of two identical diodes with $\eta=1$. Assume $V_T=25Mv$, evaluate V_{D1} and V_{D2}	2	4
	SomV		
6		2	5
6		2	5



	81 7 Ge		
13	What is reverse saturation current (I _o)? Mention approximate order of I _o for Ge and Si diodes. Discuss the effect of temperature on I _o by writing necessary expression.	2	3
14	Derive the expression for Transistor Capacitance C _T the case of an abrupt p-n junction.	2	3
15	Derive the expression for contact difference of potential V in an open circuited p-n junction.	2	3

3. Group Assignments

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Gandipet, Hyderabad-75

Group Assignment Sample

ASSIGNMENT I

Department

: Electronics & Communication Engineering

Academic year

: 2021-22

Year & Semester

: B.E & VII Semester

Subject & Code

: 5G Communications (Program Elective-V) & 18EC E24

Faculty

: Dr. Vinodh Kumar Minchula

*CO - Course Outcomes, *BT - Blooms Taxonomy levels

Fundamental knowledge from Level 1 & 2

2. Knowledge on application and analysis from Level 3 & 4

3. Critical thinking and ability to design from Level $\,5\,\&\,6\,$

Level-1	-	Remembering	Fundamental Knowledge
Level-2	2.5	Understanding	Fundamental knowledge
Level-3	-	Applying	Knowledge on
Level-4	Ħ	Analysing	Application & Analysis
Level-5	2	Evaluating	Cuities Thinking
Level-6	*	Creating	Critical Thinking

Last Date of Submission: 13-09-2021

Q.No	Questions	со	BTL
1.	List and briefly describe the different performance requirements to have an effective 5G technology?	1	2
2.	Outline and explain the enhancement of 8 key capabilities from IMT-Advanced (4G) to IMT-2020 (5G)	1	2
3.	Explain the three high level 5G key usage scenarios (eMBB, mMTC, and URLLC) and map the 8 key capabilities in different usage scenarios with a neat diagram	1	1
	6		

4.	a) What is the difference between peak data rate and user-experience data rate?	1 1	
		1 1	2
	b) List and briefly explain the Key efficiency indicators of 5G		
5.	a) Distinguish any five differences between ACUTE and		
		1	4
6.	a) Illustrate the physical properties (coverage, capacity & latency) of different spectrum bands in 5G	1	3
	b) What are the frequency ranges of 3GPP defined FR1 & FR2? and briefly explain its impact of cell size in 5G	-	3
7.	Write a short notes on any four 5G Use cases with about	1	1
8.	a) Briefly describe the 5G system concept showing the three generic 5G 1		2
	b) Explain the different categories of Spectrum Sharing Scenario		

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

(A)

Gandipet, Hyderabad-75

ASSIGNMENT I

Department

: Electronics & Communication Engineering

Academic year

: 2021-22

Year & Semester

: B.E & VII Semester

Subject & Code

: DIP (Program Elective-V) & 18EC E21

Faculty

: Dr. P. Narahari Sastry

*CO - Course Outcomes, *BT - Blooms Taxonomy levels

- 1. Fundamental knowledge from Level 1 & 2
- 2. Knowledge on application and analysis from Level 3 & 4
- 3. Critical thinking and ability to design from Level 5 & 6

Level-1		Remembering	
Level-2	-	Understanding	Fundamental Knowledge
Level-3	· ·	Applying	Knowledge on
Level-4	-	Analysing	Application & Analysis
Level-5	-	Evaluating	Tippireation & Analysis
Level-6	-	Creating	Critical Thinking

Last Date of Submission: 14-09-2021

Questions	CO	DTY
List and briefly explain the applications of DIP	CU	BIL
or prime the applications of DIF.	1	2
Draw necessary figures and explain what is a digital image? Also		-
explain what a pixel in it is.	1	1
Draw the block diagram of the Digital Image processing system and	1	-
explain in detail all the components in DIP.	1	2
Explain the concept of sampling and quantization in digital in		
processing using suitable diagrams. Define the same	1	2
	List and briefly explain the applications of DIP. Draw necessary figures and explain what is a digital image? Also explain what a pixel in it is. Draw the block diagram of the Digital Image processing system and explain in detail all the components in DIP. Explain the concept of sampling and quantization in II.	List and briefly explain the applications of DIP. Draw necessary figures and explain what is a digital image? Also explain what a pixel in it is. Draw the block diagram of the Digital Image processing system and explain in detail all the components in DIP.

5.	What is gray level, explain in detail. Also show the matrix of a binary image and explain how to get a binary image from the gray level image.	1	4
6.	Explain the concept of neighborhood. Explain N ₄ and N ₈ . What is the use of neighborhood concept in processing a digital image.	1	3
7.	Write notes on elements of visual perception with neat diagrams explain the concept.	1	1

4. Working Models

As part of the academic final year projects, faculty and students are developed the following products.

Sample products developed are shown below

S.No.	Academic Year	Product Title	Sample Images
1.	2020-21	IoT Based Anti-Theft Detection System using image Processing	
2.	2020-21	Design and Implementation of NavIC Based Reefer Monitoring System	Total Control
3.	2019-20	NaVIC Based Precision Time and Air Quality Monitoring System.	

-		-	
	4.	2019-20	Smart Building Prototype using IoT
	5.	2018-2019	Design and Development of Pre-detection and App based Notification of Potholes and Humps Bright wild Browlaguers at Production and International Production of Potholes and Humps Bright wild Browlaguers at Production and International Production of Potholes and Humps Bright wild Browlaguers at Production and Production and International Production and Internat
	6.	2018-2019	IoT based Heart Monitoring System and Simulation of Heart Pumping
	7.	2018-2019	IoT based smart home security system using light weight cryptography
And the Control of th	8.	2018-2019	Deep Learning based Fire fighting Robot

9.	2017-2018	Unmanned Aerial Vehicle Based Smart Agricultural System	
10.	2017-2018	Smart Child Rescue System for Borewells using Embedded Systems	
11.	2017-2018	Implementation of WSN For IoT Based Smart Home Using Flask Web Server	

5.

Department of EEE

2. Industrial Internships

The following no of students are participated in the industrial internships in various academic years from the Department of ECE.

S.no	Academic year	No. of students
1	2017-18	68
2	2018-19	84
3	2019-20	220
4	2020-21	13
5	2021-22	57

Chaitanya Bharathi Institute of Technology (autonomous)

(Read No. n86/2009)

territoria in this animalian and increasing and the first which is the company by production of the protection in the second

Challanya Bharath(P.O., CBIT Campus, Gandipet, Kokapet (V), Gandipet Mendal, Ranga Reddy District, Hyderabad - 500 075, Tulangana

n-mail: principal dicharges. Website volvecollation (1::040:24191276, 277, 280, Fau. 646-24192778

Assessment and

Hyderabod Dt: 23-02-2019

The superintendent Engineer TSGENCO: PCHES, Pulichintala Veline Palli Village Survaper District

Dear Sir.

Sub: Industrial visit permission requested-Reg

I am pleased to introduce myself as the Head of EEE department, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad. To expose our students to latest trends and developments in the field of Electrical Engineering we are arranging visits to various industries which are part of our curriculum.

Our students are interested in visiting your esteemed organization. The convenient date for the proposed visit is 02-03-2019___

The total number of students visiting your organization will be around 140 along with 5 Staff members will accompany them. Kindly accord the permission for a Full day visit and oblige.

Anticipating a positive reply,

Mr.D.Harsha

n-charge-Industrial Visit

Asst.Prof.EEE Dool

Yours sincerely

Dr.Suresh Babu Professor and Head

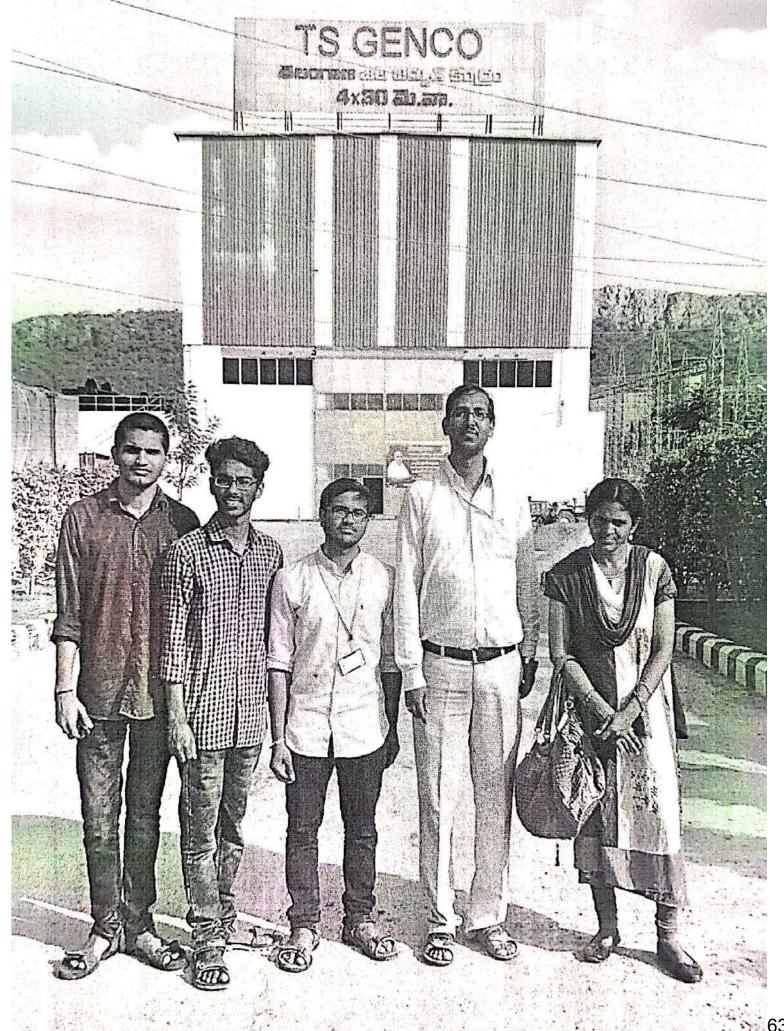
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING BE-VIII SEM (EEE-1) MAJOR PROJECTS (AY: 2021-22)

2021-2022-EEE-D1

Batch No	HT No	Name of the Student	Title of the Project	Hardware/ Simulation	
	160118734005	KEERTHANA	Iot Based Demand Side Energy Management System		
1	160118734003	dojjii iiiDidiiii		Hardware	Sri. P. Hemeshwai
	160118734042	CHILLAMCHARLA SAI RAGHU	Using Non-Intrusive Load Monitoring		Chary
	160118734016	BATTULA RASAGNA	Simulation And Analysis Of Solar	×	
2	160118734305	AJAY KUMAR SAHANI	Powered Induction Motor Drive With V/F Control For	Simulation	Sri M. Naga Raju
	160118734037	NARAYANA NITHIN	Electric Vehicle Applications		
	160118734304	RAMAVATH SAIKUMAR	Wifi Based Substation		
3	160118734002	PUTLA DHARANI	Monitoring, Controlling And Protection Using Things peak And Blynk In MATLAB	Hardware	Ms. M. Deepthi
	160117734031	KAUSHAL			
	160118734009	КАЅНА МАНАТНІ	MPPT Of Solar Energy Conversion Using Optimization	Simulation	
4	160118734047	M SHANMUKHESH			Sri Ch. Harish
	160117734029	JASWANTH	Technique"		
	160118734041	ARRA RASHMITH REDDY	Cloud Based	Hardware	
5	160118734015	ERPULA RANI	Irrigation System		
	160118734058	ZIYAD AHMED MOHAMMED	With Machine Learning And Iot		Sri. D. Harsha
-	160118734025	VINUTHNA REDDY GUTHA			St. B. L. A.
-	160118734030	KOBBAI DILEEP KUMAR	Solar Pv Reconfiguration	Simulation	Dr. T. Sudhakar
	160118734306	KURMA RAVI			Babu
	160118734034	NAMAN GUPTA			6. 8
7	160118734036	NAVID PABANI	Optimal design of wireless charging for	C: .	
	160118734040	MOTUPALLI RAMA KRISHNA SAI	an electric vehicle charging station"	Simulation	Dr. M Bala Subba Reddy

. 8	16011873401	REDDY	Load Forecasting	Cil-4	I. Da B K. I.	
0	16011873405	- COLINIO KEDDI M	Using Machine	Simulat		
	16011873400	1 KUMMARI CHANDRAKALA	Learning Technique	es	Chaitanya	
	16011873400	4 KAVYA TAMMALI	Modulation Techniques For An			
9	16011873404	VANGALA SAI SRUJAI	Asymmetric Source	Simulation	on Dr. P .Kowstubh	
	160118734023	SUSHMITHA	Configuration Of Single-Phase Chb-M Topology		on Di. i .kowstubii.	
	160118734303	MUNJA YAMINI	Design and control o	F		
10	160117734019	K ABHIRAM	micro grid fed by	Simulation	on Dr .N .Venkata	
	160118734049	BOGE SIDDARTH	renewable energy sources.		Phanendra Babu	
11	160118734044	MOTHUKURI SAI SRINIVAS	6:16	Simulatio	n	
11	160118734051	G TARUN	 Grid Synchronization Of FPGA Based DFIG 		e Dr. G Suresh Babu	
	160118734052		- Officer Dased Drig	Hardware		
	160118734008	* 4 0 1	Iot Based Air			
12	160118734007		Purification/ Air Monitoring Using Arduino	Hardware	Dr. K. Krishna Ven	
	160118734054	KALVA VENU			The state of the s	
	160118734028	MOHAMMED AMAAN FAROOQUI	Adaptive Sliding-			
13	160118734019	SHIVARATHRI SRAVANI	Mode Voltage Control For Inverter Operating In	Simulation	Sri. D. Sathish	
	160118734014	BAKKAREDDY PRIYANKA	Islanded Mode In Microgrid		Si i. D. Satnish	
14	160118734022	SANIKOMMU VAISHNAVI	Iot Based	46		
10000000000000000000000000000000000000	160118734302	T KARTHIK	Transformer	Hardware	Dr. N. Vasantha	
	160118734033	NABEEL KHAN	Monitoring		Gowri	
	160118734035	AMANCHI NAVEEN				
15	160118734039	GUGGILLA RAGHAVESHWAR	Unified Power Flow Controller Using	Hardware	Sri M.	
	160118734055	KATAKAM VINAY KUMAR	Power Electronic Transformer	aware	Thirupathaiah	
	16044-	DARAPU SAI AKSHAYA				
16	160118734031	KSHITEISSH BHARADWAJ	Iot Enabled Wireless	Hardware	Cwi M. C	
		CHENNA VINEETH	Charger	aware	Sri N. Santosh Kumar	
	160118734026	KANTHALA ADITH	E			
17	1/044		Fuzzy Logic Controller For Bi			
	160118734053	VEERADDADWIN	Directional Dc- Dc Converter	Simulation	Or. T. Murali Krishna	

	160118734012	P NEHASREE	= a		T
18	160118734017	KANDANELLY SAHITHI PRIYA RATHOD	Solar Streetlight Monitoring System	Hardware	Sri. I. Pranav
	160118734013	PRAVEENA BOBBALA	1 . 2	100 to 10	
	160118734301	BIRRU VEDAVYAS			
19	160118734029	K CHINNA RAMUDU	Vehicle Monitoring And Tracking System	Hardware	Sri. G .Hari Krishna
	160118734006	SOLIPURAM KEERTHANA REDDY	Using Node-Mcu	liaiuwaie	SH. G.HAFI KRISH
	160118734043	D SAI SIDHARTH KASHYAP	Comparison And Analysis Of Single- Phase Transformer less MOSFET Inverter Topologies For Photovoltaic Applications	ingle- former Simulation Dr. Al-	
20	160118734024	THODUPUNURI VASAVI			
	160118734057	VISHWAS P			Dr. Ahmad Syed
	160118734020	NARAYANA SRINIDHI REDDY			
	160118734032	AGGADI MANI DEEP	Simultaneous Fast		
-	160118734027	KULAKARNI ADITHYA	Frequency Control And Power	- II	
21	160118734046	GUDIMALLA SANJAY	Oscillation Damping By Using PV Solar System As PV STATCOM	Simulation	Dr. B. Suresh Kumar
1.	160118734011	NAZIYA BEGUM		100 2	Kumar

4

Dr. M. Bala Subba Reddy

Sri. D. Sathish

Project Coordinators

Dr. G. Suresh Babu Head, Dept. of EEE



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A) Affiliated to Osmania University

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING BE-VIII SEM (EEE-2) MAJOR PROJECTS (AY: 2021-22)

2021-2022-EEE-D2

Batch No	Roll number	Name of the Student	Title of the Project	Hardware, Simulation	
1	160118734100	K.Saiteja	IOT based auto control of stand-by		
	160118734112	Ch.n.s.n.s.Tarun		Hardware	
	160118734111	Sumanth Setty	transformer	Haraware	
2	160118734307	D.Umesh	Implementation of PM Motor Drive in propulsion technology for weightless	Simulation	Dr. U K Chowdhur
	160118734106	Sohan Kumar			
	160118734118	Yashwanth	drones/flying machines.		
	160118734079	Ummay Salma	Design and Simulation		DR. M. Bala Subba Reddy
3	160118734089	Jayanth.D	Of STATCOM Based	Simulation	
	160118734069	Rishitha Arikotla	Reactive Power Compensation		
8	160118734062	S Chella Meenakshi	Detection and Classification Of Faults In Transmission Lines Using Machine Learning Algorithms	Simulation	Dr. B Krishna Chaitanya
4	160118734061	Bhargavi.S			
	160118734067	K.Nishma Reddy			
	160116734313	Sk.Neha Gulshan	A Hybrid Cascaded Multilevel Converter For Battery Energy Management Applied In Electric Vehicles	Simulation	Dr. C H V. Krishna Reddy
5	160116734317	P.Akshay Kumar			
	160118734104	Sherank Dasarath			
	160118734101	Sai kiran Kolloju	Micro Generation System And Gesture Controlled Home	Hardware	Mr. P.Hemeshwar Chary
6	160118734114	A.V.Manikanta Sai			
	160118734310	V.Buddik Vararaj			
	160118734080	M Abhishek	Automation	Hardware	Ms. M. Deepthi
7	160118734097	Annam Rakesh	Underground cable		
	160118734084	D Chakravarty	fault distance locater using Arduino		
8	160118734085	Cherupally Charan Kumar	Energy Theft Detection and Intimation using wireless Communication Media	Hardware	Dr. P. Kowstubha
	160118734109	Jamalpur Srinivas Gauray			
	160118734086	Bukya Dinesh			
	160118734092	Manideep Pandula			
9	160118734113	Uday shankar doddi	Simulation of solar	Simulation	Mr. Ch. Harish
	160118734083	Akshay more	energy conversion with optimization technique		

10	160118734076	Sravya Sankarneni	IOT based Smart	Hardware	Mr. C. Srisailam	
	160118734072	Sneha Bhandhavi	irrigation system using			
	160118734082	Ajay Gunnala	Raspberry Pi			
11	160118734065	K.Manasvini	Harmonic and Unbalance	Simulation	Dr. P V Prasad	
	160118734110	M.Sujith Reddy	Compensation based on Direct Power			
	160117734119	Yashwanth	Control for Electric Railway Systems			
	160118734074	G. Sravanthi		Simulation	Mr. G Hari Krishna	
12	160118734078	P. Sunitha	A Deruced Switching Devices Multilevel			
	160118734308	R. Navya	Inverter Topology			
	160118734063	kavya	Buck boost	9		
13	160118734064	A.Lohitha Reddy	transformer less	Simulation	Mr. N. Santosh	
13	160118734073	B.Soumya	inverter to grid connected solar pv system	Simulation	Kumar	
	160118734117	Vinay	Solar powered Electric	Hardware	Dr. T. Murali Krishna	
14	160118734091	Lokesh	Vehicle (EV) Charging			
	160118734115	Varun	Station			
15	160118734312	Ganasala hepsiba rani	Selective Compensation of	Simulation	Mr. D. Satish	
15	160118734309	Vaddadi Vikas	Voltage Harmonics in			
	160118734081	M.Abhishekh ,	an Islanded Microgrid			
	160118734105	Animesh	analytical modelling	Simulation	Mr. D. Harsha	
16	160118734095	Prudhvi	simulation and			
	160118734087	Eswar	performance analysis of a solar cell			
	160118734311	Nenavath Prashanth	or a solar cell	Hardware	Mr. M Nagaraju	
17	160118734075	Sadineni Sravanthi	GSM Based Wireless			
et i	160118734116	Thaduri Venkatesh Babu	electronic notice board using Arduino			
ia .	160118734090	G. Jeevan Kumar		Simulation	Dr. N. Vasantha Gowri	
18	160118734099	N. Sai Lokesh Reddy	Hybrid Boost Converter Based Pv			
	160117734094	Chitla Pavan	Charging Enhancement			
	160118734119	V. Yogesh	Reduced Switch	Simulation	Mr. M. Thirupathaiah	
19	160118734070	M.Sai Varsha ,	Technique For Solar Pv System Based			
11	160118734077	G. Sree Vidya	Multilevel Inverter For Power Quality Improvement			
<u> </u>	160118734066	S.Nishitha	Analysis of Three phase Transformer less	Simulation	Dr. Syed Ahmad	
20	160118734071	K.Sandhya	Photovoltaic Inverter			
		And the second s	topologies for Leakage			

21	160118734088	V.Hari kiran	Observality based PMU	Simulation	Dr. N V Phanendra Babu
	160118734094	D.Naveen	Placement for Southern-region of Indian Grid Line by PMU		
	160118734313	P.Chakradhar			
22	160118734102	Lakkarsu Saiteja Varma	Power Quality Improvement in Micro-	Simulation	Mr. M Anil/ Dr. Nishant Patnaik
	160118734107	Sri Vamsi	grid System using UPQC with Lithium-ion battery system		
	160118734108	Sri Sai Wenkat			

Dr. G. Suresh Babu Head, Dept. of EEE

Plantulu Dr. P Kowstubha

Dr. K. Krishna Veni

Dr. Ch. Venkata Krishna Reddy

Project coordinators

Department of Information Technology

- 1. Experiential Learning Methodologies:
 - a) Students Internships
 - b) Projects
- 2. Participative Learning Methodologies:
 - a) Roleplay
 - b) Crossword Puzzles
 - c) Mind Maps
 - d) Quizzes
 - e) Group Discussions
 - f) Guest Lectures delivered by Industry Experts
- 3. Problem Solving Methodologies:
 - a) Group Assignments
 - b) Major Project
 - c) Mini Project
 - d) Hackathons
 - e) Paper and Project Presentations

Student Internships Details for the last 5 Years

Academic Year	No. of Internships
2017-18	17
2018-19	46
2019-20	202
2020-21	64
2021-22	221





Student Internships (Paid): A.Y. 2021-22

S. No.	Roll No	StudentName	Company Name	Package (INR)	Duration
1.	160118737001	Aditi Indoori	VisCommerce	10,000/-	08.01.2022 to 08.07.2022
2.	160118737002	Devi Abhigna Amarraju	Head Digital Works	30,000/-	21-02-2022 to 30-06-2022
3.	160118737003	P.Harika	Kore.ai	16,800/	01-04-2022 to 01-07-2022
4.	160118737004	Harini Bandaru	VisCommerce	10,000/-	08.01.2022 to 08.07.2022
5.	160118737005	Ishita Gangadara	Cognizant	12,000/-	18.02.2022 to 20.07.2022
6.	160118737008	SLS Harshitha	JPMorgan Chase & Co	50,000/-	10-01-2022 to 30-06-2022
7.	160118737009	K. Mahita	Brane Services Pvt. Ltd	20,000/-	24-01-2022 to 25-07-2022
8.	160118737012	M.Rishitha	GE Appliances	20,000/	10-01-2022 to 08-07-2022
9.	160118737013	Rithika chintala	Brane Services Pvt. Ltd	20,000/-	24-01-2022 to 24-07-2022
10.	160118737014	P Rohini Aparna	Cognizant	12,000/-	18.02.2022 to 18.08.2022
11.	160118737015	Snigdha K	GE Appliances	20,000/-	10.01.2022 to 08.07.2022
12.	160118737016	P Sathvika	JPMC	50,000/-	10-01-2022 to 30-06-2022
13.	160118737019	M.Sumedhaa	JPMC	50,000/-	10-01-2022 to 30-06-2022
14.	160118737020	V.Swetha	Amazon	80,000/-	17-01-2022 to 24-06-2022



15.	160118737023	Abdul Mateen Mohammed	Cognizant	12,000/-	22-01-2022 to 21-07-2022
16.	160118737024	Sahik Abdullah Adnan	Cognizant	12,000/-	12.02.2022 to 14.07.2022
17.	160118737026	B. Dhanunjay	Cognizant	12,000/-	22-01-2022 to 24-06-2022
18.	160118737027	K JAISAI	JPMorgan Chase & Co	50,000/-	10-01-2022 to 30-06-2022
19.	160118737028	G Kalyan Reddy	Head Digital Work	30,000/-	21-02-2022 to 21-06-2022
20.	160118737029	Talla Ravi	Hexaware Technologies	25,000/-	10-03-2022 to 10-06-2022
21.	160118737030	Ehab Karamullah Sharief	Blue Yonder	35,000/-	14-02-2022 to 14-08-2022
22.	160118737031	NikhilRanga	SAMSUNG	30,000/-	24-01-2022 to 24-06-2022
23.	160118737034	K. Praneeth Kumar	JPMorgan Chase & Co.	50,000/-	10-01-2022 to 24-06-2022
24.	160118737036	Rajender Meti	MIQ	35,000/-	17.01.2022 to 17.07.2022
25.	160118737037	Rajesh Kumar Begari	Capgemini	25,000/-	24-01-2022 to 20-04-2022
26.	160118737038	P. Ranveer reddy Deshmukh	Antal (SAIMEDHA TECHNOLOGIES PVT LTD)	10,000/-	02/02/2022
27.	160118737039	Sai Charan Reddy Pakkirgari	Capgemini	25,000/-	24-01-2022 to 30-04-2022
28.	160118737041	Saiteja Chitti	Arcesium	75,000/-	10-01-2022 to 13-05-2022
29.	160118737042	K.Sai Vamshi	JP Morgan and Chase	50,000/-	10.01.2022 to 30.06.2022



30.	160118737044	Balla Satyanarayana	Bizacuity	25,000/-	4-03-2022 to 01-07-2022
31.	160118737045	S. Shashank	Cognizant	12,000/-	18-02-2022 to 18-08-2022
32.	160118737046	Shashi Priyatham	Synchrony Financials	30,000/-	01-02-2022 to 01-08-2022
33.	160118737048	Sairam Gunda	PEGA	25,000/	11-04-2022 to 11-07-2022
34.	160118737050	Supreeth Reddy Parapati	Oracle	50,000/-	12-01-2022 to 08-07-2022
35.	160118737051	Tarun Kumar PV	Nutanix	50,000/-	03-01-2022 to 29-06-2022
36.	160118737053	Vamshi Krishna reddy	Capgemini	22,000/-	28.02.2022 to 20.05.2022
37.	160118737055	P.Varshith	Cognizant	12,000/-	22-01-2022 to 21-07-2022
38.	160118737301	Shaik Sameer	Samsung R&D	30,000/-	24-01-2022 to 24.06.2022
39.	160118737302	B. Bhanu Chander	Samsung R&D	30,000/-	01-02-2022 to 31-07-2022
40.	160118737061	Akhilandeswari Bhukya	Cognizant	12,000/-	08-01-2022 to 08-07-2022
41.	160118737065	Noorain Fathima	Cognizant	12,000/-	08-01-2022 to 08-07-2022
42.	160118737069	D.Madvika	Hexagon	12,000/-	24-01-2022 to 30-06-2022
43.	160118737070	Y. Manasa	Head Digital Work	30,000/-	21-02-2022 to 30-06-2022
44.	160118737071	D. Neha	Arcesium	75,000/-	10-01-2022 to 13-05-2022
45.	160118737075	B.Rishitha	GE Appliances	20,000/-	10.01.2022 to 08.07.2022





46.	160118737076	Sai Rithika	Cognizant	12,000/-	22-01-2022 to 11-07-2022		
47.	160118737080	Sathwika. S	Accolite	20,000/-	14-02-2022 to 12-08-2022		
48.	160118737082	B. Sree Keerthi Megana	Oracle	50,000/-	12-01-2022 to 08-07-2022		
49.	160118737083	Sreeja Palla	JPMorgan Chase & Co.	50,000/-	10-01-2022 to 30-06-2022		
50.	160118737084	Srija Chitikesi	JPMorgan Chase & Co.	50,000/-	10-01-2022 to 30-06-2022		
51.	160118737085	Sri Yagna	Samsung R&D	Samsung R&D 30,000/-			
52.	1601187370 87	S.Swetha	JPMorgan Chase & Co.	50,000/-	10-01-2022 to 30-06-2022		
53.	160118737090	Vennela Paladugu	Amazon	50,000/	24-01-2022 to 24-06-2022		
54.	160118737092	Fawaz Arshed Khan	Sure Energy Systems Pvt. Ltd.	15,000/	01-03-2022 to 01-06-2022		
55.	160118737093	T. Bgheswar Singh	Cognizant	12,000/-	22-01-2022 to 24-06-2022		
56.	160118737094	Bhavesh Juluri	BlueYonder	35,000/-	21-02-2022 to 21-08-2022		
57.	160118737096	B. Harsha Vardhan	Cognizant	12,000/-	18-02-2022 to 18-07-2022		
58.	160118737097	M Hemanth	Ctrls/ Cloud4 C Services	10,000/-	03-03-2022 to 03-05-2022		
59.	160118737098	T. Jashwanth	Oracle	50,000/-	12-01-2022 to 08-07-2022		
60.	160118737099	K.Jaswanth Nath	Cognizant	12,000/-	22-01-2022 to 24-06-2022		





61.	160118737100	Saad	Collins	12,000/-	
	100110737100	Mohammed Khaled	Aerospace	12,000/-	21-03-2022 to 02-07-2022
62.	160118737103	S. Nithin Reddy	Micron.		24-01-2022 to
					15-07-2022
63.	160118737105	K. Prashanth	Oracle	50,000/-	12-01-2022 to
					08-07-2022
64.	160118737106	Rohan Talaka	Reves	10,000/	31-01-2022 to 04-04-2022
65.	160118737108	Ch. Sai Tharun	Amazon	50,000/	24.01.2022 to
66.		SK Sameer			24.07.2022
00.	1601187371110	SK Sameer	Cognizant	12,000/-	12-02-2022 to 18-08-2022
67.	160118737111	T. Satish	Oracle	50,000/-	12-01-2022 to
					08-07-2022
68.	160118737112	K Satya Trinadh Rama Naga Rakesh	Cognizant	12,000/-	22-01-2022 to 22-07-2022
69.	160118737116	M. Sriman Murari	Samsung	30,000/-	24-01-2022 to 15-07-2022
70.	160118737117	D. Susheel Kumar	Smartserv Company's- Business Intern	20,000/-	24-01-2022 to 24-07-2022
71.	160118737307	Manvith Reddy Ponnala	Copart	18,000/-	03-01-2022 to 03-07-2022
72.	160118737308	Mohammed Mumtaz Ahmed	Cognizant	12,000/-	24-01-2022 to 02.06.2022
73.	160118737310	K.Nikitha	Cognizant	12,000/-	22-01-2022 to 21-07-2022
74.	160118737311	P.Sai Prasanna	Cognizant	12,000/-	



28/03/2018

LETTER OF OFFER

Name: Jagannath Saragadan Mob: +91 8985746575

Hello Jagannath Saragadam,

With reference to your application for Internship and subsequent discussion you had with us, we are pleased to make you an offer for the position of Software Development Intern with Skylark Drones Private Limited. Your assignment would be based in Bangalore.

Your Internship Terms will be as follows:

- 1) Your Internship Joining date is 14th MAY 2018.
- You will be paid a stipend of Rs. 15000/-per month (Rupees: Fifteen Thousand Only) for the duration of the Internship. Your Internship would be the period of 6 (Six) Weeks.
- All cost of outstation travel with respect to the Project, if required by Skylark Drones, shall be paid by Skylark Drones.
- You would not be entitled to any other benefit (s) during the period of your Internship with Skylark Drones.
- 5) Skylark Drones also reserves the right to withdraw the internship offer made to you even after the acceptance of such offer by you, if Skylark Drones becomes aware of any material information that may have been concealed or misrepresented by you at the time the offer was made by Skylark Drones.

Any change in your personal information stated by you verbally or in writing, shall be informed in writing to the HR Department within 3 working days.

[€ +91 856 565 8500] ■ info@dylarkdrones.com] ● www.skysandrones.com

Please note that your compensation structure and specific details are confidential. You are requested not to share your compensation details with others inside or outside of Skylark Drones.

Sample Internshi p Offer Letters:

Skylark Drones Pvt. Ltd:





Tech Mehindra Growth Factories Lilimited A-7, Sector -04 Notda 201301, India Tel: +0112040050000

Registereduffice W-1 Oberof Estate Gardenn, Off Salc Vilhar Road, Next Chandivali, Studio, Chandivali, Salsi Naka, Mumbai 400072, Maharashtra, India

U72200MH2015PLC269129

Ref: HR/CERT/ C76685 Date: 03-October-2018

Associate Name: Khushbu Jindal GID : C76685

Address: S/O: Flat no 501, Badanika block, vbg garden, Mehdipatnam, Hyderabad 500008 Telangana

Subject: Internship Completion Certificate

This is to declare that Ms. Khushbu Jindal has successfully completed internship program with Tech Mahindra ltd from

20 June 2018 and has completed her internship titled "UpX" under the guidance of Madhusudhan Madireddy

(Project Manager) on 17 August 2018.

Best Wishes for your future endeavors.

Yours sincerely, For Tech Mahindra Limited

SATPAL TALWAR

Group Manager - Human Resources.

IT-1(4)4) Bhavitha.M(7842539567) Suscela (7995267170)

merilytics

December 19, 2018

To, Ms. Bhavitha Maile, Hyderabad.

Dear Bhavitha,

Congratulations!!!

With reference to your interview conducted by us at Chaitanya Bharathi Institute of Technology. Hyderabad, we are pleased to inform you that your internship request at Meritus Intelytics Private Limited ("Merilytics") has been accepted.

We would like you to start your internship with us on 24th Dec 2018 and during this period, you will be paid a stipend of Rs. 20,000.00 per month, less all applicable taxes. Also, please note that, as a "temporary employee", you will not be eligible for any company benefits and other perks. You will be allocated a fixed number of leaves per month (apart from the declared holidays), exceeding which will result in loss of pay. You will be based out of our Hyderabad offices.

Your internship is expected to last for 6 months from the start date. However, you have the right to terminate internship for any reason, or no reason, at any time by giving 14 days' notice. Merilytics also reserves the right to terminate your internship by giving 7 days' notice, which is not applicable if reasons are related to performance and fraud issues. The terms of internship are not subject to change or modification of any kind except if in writing and signed by you and the CEO of Merilytics.

During your internship, you may have access to confidential and sensitive information belonging to the Company. By accepting this internship offer, you acknowledge that you will keep all such information strictly confidential and refrain from disclosing it to anybody outside the Company, including friends and family members. In addition, you agree that, upon completion of your internship, you will immediately return all the Company assets as required. Also, you agree that throughout your internship, you will adhere to the Company policies and procedures governing the conduct of business and employees. Non-compliance on any of the above clauses will result in disciplinary action, up to and including termination of the internship.

Once again, we are glad to have you onboard for rewarding internship experience at Merilytics. We look forward to working with you soon.





Cognizant

04-Dec-2018

Dear Hari Priyanka Sunkori Amesuya, B. Techy'B.E., Information Technology Chaitenya Bharathi Institute of Technology

Candidate ID - 12485546

In continuation to our discussions, we are pleased to affer you the role of Programmer Analyst Trainee in Cognizant Technology Solutions India Provate Limited ("Cognizont").

Quering your probation period of 12 months, which includes your training program, you are entitled to an Annual Total Renumeration (LTR) of Rs. 338,005/-. This includes an annual incentive indication of Rs.20,000/- as well as Cognizer (s contribution of Rs.21,005/- towards benefits such as Medical, Academy, Life Insurance used Greatury. The breek up is presented in Annexure A.

On successful completion of the probation period, cleaning the required basining assessments and subject to you being part of a delivery project, your consuct Total Remoteration (ATR) would stand revised to Rs.383,755/-. This includes an annual incentive endication of Rs.20,000/- as well as Cognizant's contribution of Rs. 21,755/- towards benefits such as Medical, Accident, Life Incurance and Gratuity

Your appointment will be governed by the terms and conditions of employment provided in Annexure B. You will also be governed by the other rules, regulations and practices in vague and those that may change from time to time. Your compensation is highly confidential and if the need asses, you may discuss it only with your

Cognizors is keen that there is a secure environment for clients and internally fee. You are required to be registered with the National Skills Registry (NSR) and provide the ITPIN while joining the organization. Please refer Assessors B for more details.

Please note

- *This apparatment is subject to setsfactory professional reference checks and you securing a reinforcement of 60% aggregate (all subjects token into consideration), with an standing errors in your Graduation/Post-Graduation.
- . From to commencing employment with Cognitions you must provide Cognitions with environce of your right to work in India and other such documents as Cognitions may request.

We look forward to you joining us. Should you have any further questions as clarifications, please log into https://compositiographic engineers/com

For Cognizant Technology Solutions India Pvt. Ltd.,

Swesh Bethoverdu

6.07

Global Head-Talent Acquisition

I have read the offer, understeed and accept the above mentioned terms and conditions.

Date: Signature:

SA. Sudhabal





Product development as part of Student Projects:2020-21

S No.	Project Name	Faculty Supervisor	Student Names & Roll No. s	Snapshots of Results
1.	Image Generation from Text Description	Dr. B.Veera Jyothi	Meghana Vishwanathula, 160117737009 Shagufta Naaz, 160117737020	• person's red later: • or series all stronger transmitted, have a part transmitted in the red of the law in the site in the control of the law in the la
2.	A Neural Network Based Social Distance Detection	Ms. A.Sirisha	M. Sanjana, 160117737019 G. Sravani 160117737024	Identifying the social distancing between the people, Displaying Violations on Output Window and generating the alert
3.	Reverse Image Search	Ms. B. SwathiSowm ya	P. Andal Sri Vaishnavi (160117737065) P. Vinay (160117737117)	Percent Image Search Company Season





4.	Virtual mouse using vision- based image processing	Mr. U. Sairam	G Dharani Kumar Reddy 160117737091 K Sai Charan 160117737105	Right_thumb: 93.0%
5.	Bird Species identification from an Image	Dr. K. Radhika	Jagadeesh Reddy (160116737039) Manideep Chenna (160116737042)	Bird Species identification Bird Species identification Result: red-breasted_merganser
6.	Object detector for visually impaired with distance calculation for humans	Ms. E. Rama Lakshmi	K Dixitha (160116737003) & V Gouthami (160116737005)	NGURE 14. Camera mounted vehicle.
7.	Smart water consumption monitoring system using IOT, android and cloud computing	T.Satya Kiranmai	Haritha Chowdary (160116737007) G. Lakshmi Harika (160116737013)	Too if it is a second of the s





8.	Detection of Brain Tumour Using a Combination of Fuzzy C Means and Thresholding Using MRI	Ms B Swathi Sowmya	Aiswarya Jayanthi (160116737068) Sameera Pokala (160116737077)	Transport Augustation Continue Continue
9.	Smart irrigation and crop security system in Agriculture using IoT	Ms K Sugamya	R Sangeetha S.Harika	
10.	Auto Jotting	Dr.M.Trupthi	Srinivas .G (160116737058.) Venkata Vamsi .M (160116737060.)	Control of the contro
11.	Implementation of Driver Drowsiness and alcohol Detection system with IoT	Mr. S. Rakesh	Anusha Gajja (160115737063) Sandhya Lingamalla (160115737073)	





12.	A computer vision application for food classification using machine learning	Dr. B. Veerajyothi	B.Shreeshma (160115737076) V.Vara Lakshmi (160115737081)	A COMPUTER VISION APPLICATION FOR FOOD CLASSIFICATION AND CALORIE ESTIMATION FOOD TIPE ACCIDING OF THAM FOOD TIPE ACCIDING OF THE STIMATION FIGURE 1 shows the output after the image is uploaded
13.	Droos: A Development Environment for Drone Based Applications	Ms. B. Swathi Sowmya	Anirudh Valpadasu (160115737035) Kt Ujwal Pratap Krishna (160115737057)	Anthersological Carlier Anthersological Carlier RAJENDRA RAGAR RAHRARBAG



1. Participative Learning Methodologies:



Fig: Role play that played by students in the topic of Polymorphism in Java

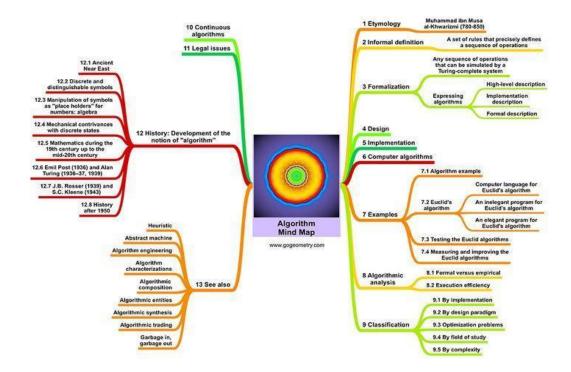


Fig: Mind Map on Algorithm



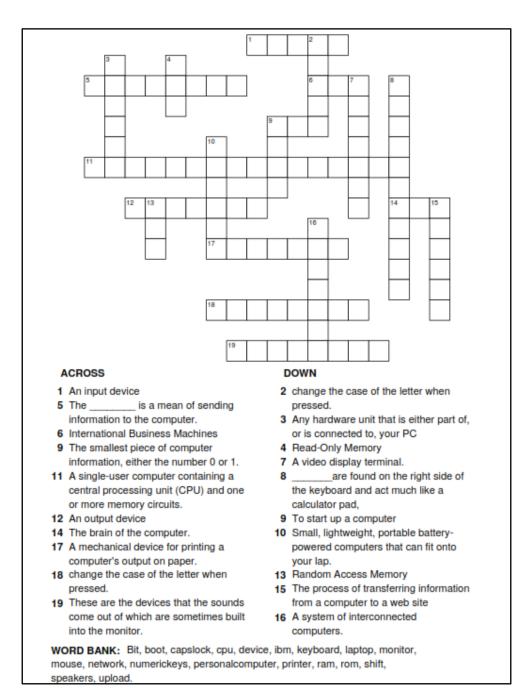


Fig: Crossword Puzzle for Basics of Computers



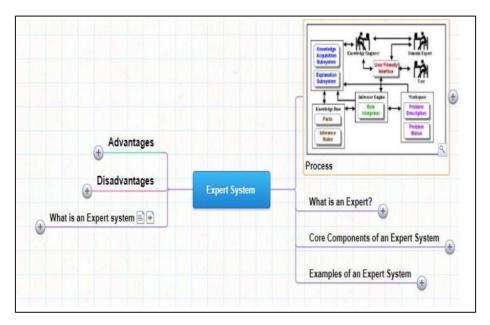


Fig: Mind Map on Expert Systems in Artificial Intelligence

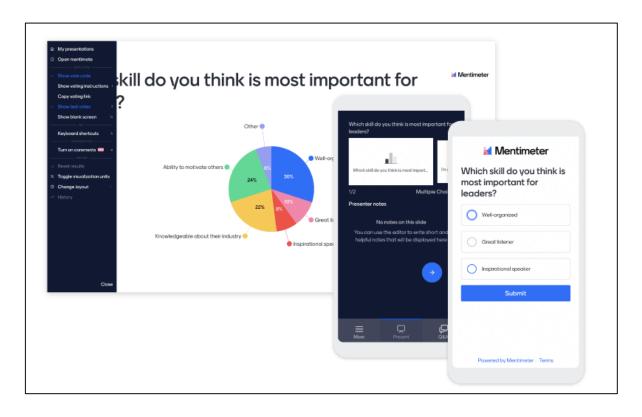


Fig: Presentation by Mentimeter

Sample Group Assignment of Case Studies:

Course Name: Distributed Systems

Course Code: 18ITC30

Explore and analyze the case studies of Distributed Systems. What is your inference for the

Distributed systems? Draft your own inferences from the below case studies:

S.No.	Roll No.	Case Study						
1	1601-18-737-001							
2	1601-18-737-002							
3	1601-18-737-003							
4	1601-18-737-004	Distributed Randomized algorithms CO4 L5						
5	1601-18-737-005							
6	1601-18-737-006							
7	1601-18-737-007							
8	1601-18-737-008							
9	1601-18-737-009							
10	1601-18-737-010	Consistency and fault tolerance in real time environment						
11	1601-18-737-011	CO4 L5						
12	1601-18-737-012	CO4 L3						
13	1601-18-737-013							
14	1601-18-737-014							
15	1601-18-737-015							
16	1601-18-737-016							
17	1601-18-737-017							
18	1601-18-737-018	The Google File System and the replication of informati						
19	1601-18-737-019	CO4 L6						
20	1601-18-737-020							
21	1601-18-737-021							
22	1601-18-737-022							
23	1601-18-737-023							
24	1601-18-737-024							
25	1601-18-737-025	Distributed Algorithms for Sensor Networks						
26	1601-18-737-026	CO4 L5						
27	1601-18-737-027	COT L 3						
28	1601-18-737-028							
29	1601-18-737-029							
30	1601-18-737-030							
31	1601-18-737-031							
32	1601-18-737-033							
33	1601-18-737-034	Authentication and Security in Distributed						
34	1601-18-737-036	Systems(GLOBE) CO5 L5						
35	1601-18-737-037							
36	1601-18-737-038							
37	1601-18-737-039							





	T	
38	1601-18-737-040	
39	1601-18-737-041	
40	1601-18-737-042	Ditaging A near to near Floatronia Cosh system
41	1601-18-737-043	Bitcoin: A peer – to – peer Electronic Cash system
42	1601-18-737-044	CO 4 L5
43	1601-18-737-045	
44	1601-18-737-046	
45	1601-18-737-047	
46	1601-18-737-048	
47	1601-18-737-049	Distributed Object based environment with CORBA
48	1601-18-737-050	architecture
49	1601-18-737-051	CO5 L6
50	1601-18-737-052	
51	1601-18-737-053	
52	1601-18-737-054	
53	1601-18-737-055	
54	1601-18-737-057	Map Reduce and HDFS
55	1601-18-737-058	CO4 L5
56	1601-18-737-059	
57	1601-18-737-060	
58	1601-18-737-301	
59	1601-18-737-302	
60	1601-18-737-303	
61	1601-18-737-304	Spark
62	1601-18-737-305	CO4 L5
63	1601-18-737-306	
64	1601-17-737-036	
65	1601-17-737-302	

Group Assignments

Course: Data Structures and Algorithms

Course Code: 20ITC01

Assignment 1

1. Implement Towers of Hanoi using Recursive Function using Python. [CO1-4]

2. Write a python function to implement for a given value (K > 0) reverse blocks of K nodes in a list. [CO3-4]

Example: Input: 1 2 3 4 5 6 7 8 9 10. Output for different K values: For K = 2: 2 14 3 6 5 8 7 10 9 For K = 3: 3 2 16 5 4 9 8 710 For K = 4: 4 3 2 187 6 5 9 10

- 3. Implement Python functions to concatenate two circular linked lists producing another circular linked list. [CO3-4]
- 4. Implement Circular Double Linked List with an example. [CO3-4]
- 5. Check whether the Linked List is either NULL or not. If there is a cycle find the start node of the loop. [CO3-5]
- 6. Given pointers to the heads of two sorted linked lists, merge them into a single sorted linked list. Either head pointer may be null meaning that the corresponding list is empty. [CO2-4]

Example

headA refers to 1->3->-7->NULL

headB refers to 1->2->NULL

The new list is 1->1->2->3->7->NULL

- 7. Function to remove duplicates from a sorted doubly linked list. [CO2-4]
- 8. Given an integer k and a queue of integers, how do you reverse the order of the first k elements of the queue, leaving the other elements in the same relative order? For example, if k=4 and queue has the elements [10 20, 30, 40, 50, 60, 70, 80, 90); the output should be [40,30, 20, 10, 50, 60, 70, 80, 90]. [CO3-5]
- 9. Use quick sort algorithm to sort 15,22,30,10,15,64,1,3,9,2. Is it a stable sorting algorithm? Justify. [CO2-3]
- 10. Show how you can efficiently implement one stack using two queues. Analyze the running time of the stack operations. [CO3-4]

Assignment 2

1. An In-order traversal of a binary search tree is performed, and each time a node is visited, it is inserted into a new binary search tree. What is the shape of the resulting tree?

[CO3][U]

2. Suppose we have a binary search tree as described in class. Implement an In-order traversal that printsout the entries in the tree in the form

3 < 4 = 4 = 4 < 5 < 6 < 7 = 7 < 8





where 3, 4, 4, 5, 6, 7, 7, 8 are the entries in the binary search tree. If the tree is empty, print nothing.Hint: pass-by-reference. [CO3][A]

3. Insert the following *n* objects, in the order given, into a binary min-heap and place your answer into the following table

[CO3][A]

5, 3, 9, 7, 2, 4, 6, 1, 8

0	1	2	3	4	5	6	7	8	9

4. Construct the string-matching automaton for the pattern P = aabab and illustrate its operation on the text string T = aaababaabaabaabaabaab.

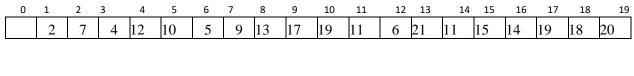
[CO4][A]

5. Create a Hash Table for the given keys (54,26,93,17,77,31,44,55,20) by implement Linear Probing and Separate Channing collision resolution Techniques

[CO5][A]

6. Update the following min-heap-as-complete-tree data structure to demonstrate the state following apop operation and place your answer in the following table.

[CO3][A]



	7.	8.	9.	10	1	1.	1.	1.	1:	10	1	1	1	20	2	2.	2.	2،	2:	26
	27	28	25	30	31	32	33	34	35	3€	3	3	3!	40	4	4.	4.	4	4:	46
4	4	4	5	5	5	5 :	5	5	5	5	5	5	5	6	6	6	6	6	6	6
			_		_															





Student Publications along with Faculty Members:

2020-2021

S.No	Authors	Publication Details	Web Link
1	Dr.SureshPabboju Mrs. A.Sirisha 160118737017 Sheetal, 160118737012 Rishitha	"Prediction Of COVID-19 Cases With Time Series Analysis And Machine Learning" In International Journal Of Engineering And Techniques - Volume 7 Issue 3, June 2021	http://www.ijetjournal.org/volume7/issue3/IJET-V7I3P38.pdf DOI: 10.29126/23951303/IJET-V7I3P38
2	Mrs.E. RamaLakshmi 160117737115- K.Venkata Srinivas , B.Deepika Reddy	"Solar Powered Smart Irrigation And Monitoring System For Greenhouse Farming Using Iot" In International Journal Of Advanced Science And Technology Vol. 29, No.4, (2020), Pp.8239 –8247	http://sersc.org/journals/index.php/IJAS T/article/view/30559
3	Mr.S.Rakesh 160116737102- V. Praveen Kumar 160116737091- Mahesh Varma	"Smart Irrigation And Leaf Disease Detection Using Iot And Cnn" In International Journal Of Computer Science And Engineering (IJCSE) ISSN(P): 2278–9960; ISSN(E): 2278–9979 Vol. 10, Issue 1, Jan–Jun 2021; 75–84	https://www.iaset.us/archives?jname=1 4_2&year=2021&submit=Search
4	Dr. K. Radhika Balaji Phani Pranav Padala- 160116737087 S. Yadavendra Reddy 160116737120	"Disease Diagnosis With Medical Prescription" Aegaeum Journal Vol. 8, Issue 7 Jul 2020	DOI:16.10089.AJ.2020.V8I7.285311.3 816
5	Dr.VenuGopalaChari Mr.S.Rakesh 160117737041- L. Manideep, 160117737026- M. Shrutha Keerthi	"Brain Tumor Detection With Deep Learning On MRI Image Dataset" In International Journal For Research In Applied Science & Engineering Technology (IJRASET)ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429Volume 9 Issue VI Jun 2021	https://doi.org/10.22214/ijraset.2021.35482

Department of Mechanical Engineering

Experiential Learning Methodologies

1. Industrial Internships (From A.Y 2017-18 To A.Y 2021-22)

Academic Year	No of students done Internship				Total no of
	1 to 3 weeks duration	3 to 6 weeks duration	More than 6 weeks duration	Whole Semester duration	students done internship
2017-18	08	04	00	01	13
2018-19	17	07	00	01	25
2019-20	10	21	04	04	39
2020-21	01	32	07	00	40
2021-22	54	45	20	11	130

2. Industrial Visits

AY 2017-18

S. No	Name of the Industry	Dates of Industrial	Report and
	Visited	Visit	Photographs
1	Srisailam Underground Hydroelectric Power Station	08-04-2017	Available

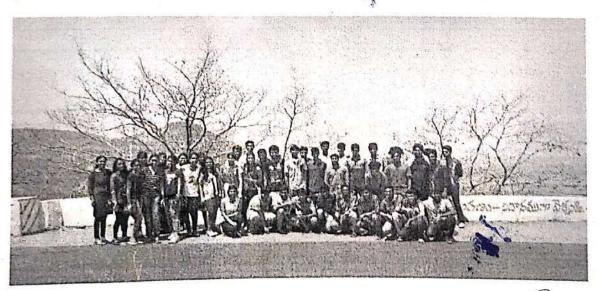
Industrial Visits Report on Srisailam Underground Hydroelectric Power Station on 08-04-2017.

Date of visit: 08-04-2017.

Duration: 1 day

Industry Name: Srisailam Underground Hydroelectric Power Station.

Students of 3rd year Mechanical and Production Engineering visited Srisailam Underground Hydroelectric Power Station on 08-04-2017. It was visited by about 97 students accompanied by 3 faculty members. The students understood the various process and basic principles involved in Hydroelectric Power Plant.



Incay.

4. Learning by Doing

Undergraduate students of Mechanical Engineering Department will be trained in practical sessions along with theory during their 4 year course work where they will be exposed to various theoretical concepts in a practical way.

S.No	Name of the Labs	Semester
1	Material Science and Metallurgy Lab	
2	Strength of Materials Lab	III Sem
3	Manufacturing Processes Lab	III Selli
4	Basic data structures Lab	
5	Fluid Principles and Hydraulic Machines Lab	IV C
6	Metal Cutting and Machine Tool Engineering Lab	IV Sem
7	Dynamics and Vibrations Lab	
8	Applied Thermodynamics and Heat Transfer Lab	V Sem
9	CAD/CAM Lab	
10	Metrology and Instrumentation Lab	
11	Machine Drawing Lab	
12	Production Drawing Lab	VI Sem
13	Thermal Engineering Lab	
14	Finite Element Analysis Lab	
15	Employability Skills Lab	

Final Year Projects

The Department of Mechanical Engineering believes that learning is more effective by doing. Keeping this in view the project work designed in VII and VIII semester is given more emphasis. During the VII sem literature survey is carried out and methodology of the project is formulated. Actual project is carried out during VIII semester. Students do the projects and college or in the industry based on the topic and facilities available.

Outcomes from the project (2021-22 Outgoing Students)

Publications (Research or Review Articles)

1. Venkata Sushma chinta, S. Solomon Raj, P.Ravinder Reddy, Eluka Vincent, "Numerical and Experimental Investigation of Effect of Stacking Sequence on the Fracture Parameters of Composite Materials", Journal of Xi'an University of Architecture & Technology, Volume XIII, Issue 2, pp.76-86, ISSN NO: 1006-7930.

Placements

Ameda

- 1. 1601-20-745-102, JADHAV SUNIL KUMAR did project on "Design and analysis of AES type heat exchanger using PV elite", Placed as Graduate Engineer Tranee, Hyundai Motor group, CTC 5 Lakh.
- 2. 1601-20-745-103, AJMEERA CHARAN TEJ, did project on, "Design and analysis of pressure vessel by using PV elite" placed as Graduate Engineer Tranee, Hyundai Motor group, CTC 5 Lakh.,
- 3. 1601-20-745-104, DURGAM JAGAPATHI BABU, Control of pollutants of semi-adiabatic diesel engine fuelled with CNG and neem oil, Graduate Engineer Tranee, Hyundai Motor group, CTC 5 Lakh
- 4. SAREDDY SOUMYA REDDY(ME CAD/CAM) is placed in SKYLARK SMARTMETERS PVT LTD, HYD

Higher Studies

1. Ashish Kethavarapu. University of Bridgeport

2. sindhuja sai batchu, Business Analytics Flex - MS at The University of Texas at Dallas, Office of Admission and Enrollment, 800 W Campbell Road, Richardson, TX 75080-3021

3. Ravi Chandra Dharmavarapu to Purdue University's Graduate School

Outcomes from the project (2020-21 Outgoing Students)

blica	ntions (Research or Review Articles)	link (proof)
	Pullela Ramalakshmi, Pinninti Ravinder Reddy and Nakshatram Sarthak, "Finite element analysis on MWNT reinforced S-glass composite", Materials Today: Proceedings 56 (2022) 1364–1368, Available online from 9 December 2021	https://doi.org/10.1016 .matpr.2021.11.427
2)	S. Abhiram, Maddali V S Murali KrishnaMaddali V S Murali Krishna, MATHEMATICAL ANALYSIS OF RECEIVER FOR A PARABOLIC DISH COLLECTOR, IJMET,. ISSN Print: 0976-6340 and ISSN Online: 0976-6359, Volume 12, Issue 7, pp. 17-22, July 2021.	https://doi.org/10.3421 /IJMET.12.7.2021.003 ulv,
3)	E. Manasa, Maddali V S Murali Krishna, Indira Priyadarsini, ENHANCEMENT OF THERMOPHYSICAL PROPERTIES OF NANO REFRIGERANT, Volume 12, Issue 7, pp. 10-16ISSN Print: 0976 6340 and ISSN Online: 0976-6359, July 2021.	https://doi.org/10.3421 /IJMET.12.7.2021.002
	Ch.Indira Priyadarsini, T.Ratna Reddy, Rajesh chitimireddy, "Strut flame holder performance for supersonic combustion using computational fluid dynamics", IJRAR, E-ISSN 2348-1269, P-ISSN 2349-5138, Vol.7, No.3, July 20	http://doi.one/10.1729 Journal.23995
	Anjani Devi, P., Indira priyadarsini, C., Avvari, C., Design of folded wing mechanism for Unmanned Aerial Vehicle (UAV), Materials Today: Proceedings, 2022, 62, pp. 4117–4125	https://doi.org/10,1016/j.m pr.2022.04,660
1.	P.Ramalakshmi, K.Sashikant and P.Ravinder Reddy, "Prediction of Instantaneous Shear Modulus in Neat and Multi-Walled Carbon-Nanotube Reinforced E-Glass Epoxy Composites by Finite Element Analysis" presented at 1st International Conference on Developments in Sustainable Materials Manufacturing and Energy Engineering organized by Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, India , April 3 – 4 ,2021, Page 279 to 285 , (ICDSME-2021)	
(Pullela Ramalakshmi, Nakshatram Sarthak "Effect of notch separation on Instantaneous Shear Modulus in Neat and CNT Reinforced S – Glass Epoxy Composites by Finite Element Analysis", abstract is selected at First International Conference on Advances in Mechanical Engineering and Material Science CAMEMS – January 22 – 24, 2022.	

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- 3.P.Anjani Devi, Glaxmaiah, Chandu Avvari" Static and Dynamic Analysis of High Speed Motorized Spindle", 1st International Conference on Developments in Sustainable Materials Manufacturing and Energy Engineering organized by Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, India, April 3 4,2021, Page 306 to 317, (ICDSME-2021)
- E. Manasa, Dr. M. V. S. Murali Krishna, Dr. Ch. Indira Priyadarsini, , Enhancement of Thermophysical Properties of Nanorefrigerant, ISBN: 978-1-956102-42-0 InSc Publishing House (IPH), 1st International Conference (ICDSME-2021), 3-4 April 2021
- Rajesh chitimireddy, Dr.Ch. Indira Priyadarsini, CFD Analysis of NACA 0012 Wing for Low Subsonic Speed, ISBN: 978-1-956102-42-0 InSc Publishing House (IPH), 1st International Conference (ICDSME-2021). 3-4 April 2021

Placements

- 1601-19-745-101, Sambaraju Abhiram, "Computerized analysis of pressurized air fuel mixture on piston squish and swirl ratio Engineer on U2 band, Tech Mahindra Limited, Hyderabad Rs. 400,000 (Rupees Four Lakh)
- 1601-19-745-105, Enugurthi Manasa, "Computational analysis of microchannel condenser using nano refrigerants" Programmer Analyst Trainee, Cognizant Technology Solutions India Private Limited
- 1601-19-745-109, Chitmi Reddy Rajesh, "Integrated CFD simulations of fixed wing unmanned air vehicle(UAV)", Aerodynamics Engineer, NextLeap Aeronautics Private Limited, Bangalore, CTC Rs. 4, 70,000
- 4. Chandu Avvai (ME cad/cam) ,Senior Engineer ,QUEST
- A sai kiran (ME cad/cam is working as Business Development Analyst, Darwinbox Digital solutions Private Ltd.
- 6. Ambati satish is working as Piping Engineer at Petrocon Engineering Services

Higher Studies

- 1. Vishal Yanam, Cinema Arts-Directing, Brooklyn College Graduate Admissions
- 2.Bindu Shankar Ravula, Pace University
- 3. 1601-19-745-103, Tirunagari Tejakrishna, did project on "Investigation on performance evaluation of photovoltaic based food dryer" Joined Masters, Renewable Energy Managem, Rhine-Waal University of Applied Sciences, Marie-Curie-Straße 1, 47533 Kleve, Germany

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Outcomes from the project (2019-20 Outgoing Students)

Publications (Research or Review Articles)	
 Dodda, J.R., Srinivasulu, N.V., Reddy, B.R. (2021). Various Developments in the Design of Hovercrafts: A Review. In: Reddy, A., Marla, D., Favorskaya, M.N., Satapathy, S.C. (eds) Intelligent Manufacturing and Energy Sustainability. Smart Innovation, Systems and Technologies, vol 213. Springer, Singapore. https://doi.org/10.1007/978-981-33-4443-3_50 	/978-981-33-4443-3_5 0
 Dr G Laxmaiah1, P Anjani Devi2, Dr Ch Indira Priyadarshini3, Anirudh Kishan K4, V Karthikeya Reddy5, S Vijaya Bhanu Deepak6, Design and Analysis of Semi-Recumbent Bicycle, International Research Journal of Engineering and Technology (IRJET), Volume: 09 Issue: 06 June 2022 	https://www.irjet.net/a rchives/V9/i6/IRJET- V9I6461.pdf
 1Dr.R.P. Chowdary, 2 K. Sai Deepak Reddy, 3 M.Shashank, 4 D.Vinay Lalit, FABRICATION AND PERFORMANCE ANALYSIS OF WIND CHILL 	https://www.irjet.net/a rchives/V9/i6/IRJET- V9I6461.pdf
REFRIGERATION SYSTEM, JETIR2012243 Journal of Emerging Technologies and Innovative Research (JETIR), JETIR December 2020, Volume 7, Issue 12.	
4. V.V.R.Seshagiri Rao, Ch.Indira, Priyadarshini, B.Levi Rakshith, Laminar Free Convection From a Heated Square Cylinder in Bingham Plastic Fluids, The International Journal of Analytical and Experimental Modal Analysis, Volume XIII, Issue VI, 754-761, June-2021	OI:18.0002.IJAEM A.2021.V13I6.200001 .01568590272
 Venkata Sushma chinta, S. Solomon Raj, P.Ravinder Reddy, Eluka Vincent, Numerical and Experimental Investigation of Effect of Stacking Sequence on the Fracture Parameters of Composite Materials, Journal of Xi'an University of Architecture & Technology, Volume XIII, Issue 2,pp.76-86, 2021.ISSN NO: 1006-7930. 	
 Dr.T.Ratna Reddy, Ch.Indira Priyadarsini, R.Navancetha, Design and Analysis of Impeller using Corrosion Resistant Materials Vol.2317, No1,, AIP Conference Proceedings 2317, 040003,. MLRIT. 	https://doi.org/10.1063 /5.0036476
7. Ch.Indira Priyadarsini, Dr.T.Ratna Reddy, Dr.G.Laxmaiah, M.SubhaPradha, "Study of heat transfer in solar collector with water-nano fluid mix", NOVIY MIR Research Journal, Publisher: IZD STVO IZVESTIYA, Vol.6, No.6, pp. 73-79, June 21, ISSN No: 0130-7673,	DOI:16.10098.NMRJ. 2021.V6I6.256342.18 72

Book chapters	
1. Jhansi Reddy Dodda, N. V. Srinivasulu & Balem Rahul Reddy ,Various Developments in the Design of Hovercrafts: A Review, Part of the Smart Innovation, Systems and Technologies book series (SIST,volume 213), DOI: 10.1007/978-981-33-4443-3_50, Chapter length: 10 pages	
Conferences	
1. Dr.T.Ratna Reddy, Ch.IndiraPriyadarsini, PenyalaHareesh Kumar, "Performance Evaluation of Invelox Wind Turbine using CFD Technique, ISBN 978-81-948668-1-7, 5th International Multidisciplinary Research Conference (IMRC-2020), OU, Dec-20	
 Dr.R.P.Chowdary, Ch.Indira Priyadarsini, Shasikanth, Design and simulation of downdraft gasifier for various biomass, ISBN: 978-1-956102-42-0 InSc Publishing House (IPH), 1st International Conference (ICDSME-2021) 	
Placements	į. IX
 1. 1601-18-745-101, MohammadTaj Baba, did project on "Preliminary design of Radial Inflow Turbine for Aircraft Environmental Control System Application", joined as Engineer, ALTEN India Pvt., Ltd., Bangalore CTC Rs. 7,00,000 2. 1601-18-745-108, Bhavana Kokkonda, "Optimisation and numerical analysis of desiccant wheel", Project Associate, Birla Institute of Technology and Science, Pilani Rs.25,000 per month (consolidated) 3. 1601-18-745-110, R. Navaneetha, Design and analysis of centrifugal pump impeller made of ABS plastic, Assistant Professor (contarct), Mechanical Eng. Dept., Chaitanya Bharathi Institute of Technology, Hyderabad Rs.26,250 per month 4. 1601-18-745-112, Bairi Levi Rakshith, Laminar Free convection from a Heated square cylinder in Bingham plastic fluids", Joined Assistant Professor, Mechanical Eng. Dept., Karunya Institute of Technology and Science, Coimbatore Rs.6000 AGP. 	
Higher Studies	
1. 1601-18-745-105, Shashi B, "Design and simulation of downdraft gasifiers for various biomass" Msc in mechanical engineering with advanced practice, UK	

Brieds

ublications	link Proof
. G. Chandra Mohan Reddy, Nihal Kasam, Mohammed Irfan Ahmed, and Kushwaha Jayant Mohan,"Low Cost Robotic Furniture Module for Micro-Apartments", Journal of Automation and Control Engineering Vol. 9, No. 2, December 2021.,	http://www.joace.org/ uploadfile/2022/0222/ 20220222030238293. pdf
2. Pullela Ramalakshmi and Kandaloju Akhil, "Estimation of ILSS in Neat Resin and CNT Reinforced S Glass Composites by Finite Element Analysis", Journal of Materials Science and Engineering A, Vol 9, Num 7 – 8, Page 143-148, December 2019,	DOI 10.17265/2161-6213/ 2019.7-8.002
 M. Baburam, Dheeraj k gara, K. Damodhar&K.Gurubrahmam(Dec 2019)," A review on process parameters associated with constitutive modelling of shape memory alloys-2", International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), ISSN(P): 2249-6890; Vol. 9, Issue 6, pp. 149-160. 	https://www.researchgate net/publication/35045292 8 A REVIEW ON PRO CESS PARAMETERS A SSOCIATED WITH CO NSTITUTIVE MODELL ING OF SHAPE MEM ORY ALLOYS-2
4. K Gurubrahmam, M. Baburam, A. Venkatasaikumar&dheeraj k gara, (Aug 2019.), "A short review on constitutive modelling of the shape memory alloys-1", international journal of mechanical and production engineering research and development (ijmperd)., ISSN (p): 2249-6890; ISSN (e): 2249-8001 vol. 9, issue 4, pp. 849-858.	http://www.tjprc.org/ ublishpapers/2-67-15 62838812-87.IJMPE RDAUG201987.pdf
5. KNV SREEDEVI, Dr. MVS MURALI KRISHNA, SUNAYANA & BHOOMIKA, EFFECT OF EGR ON PERFORMANCE OF CI ENGINE WITH DIESEL AND COTTON SEED OIL AS FUELS, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN (P): 2249-6890; ISSN (E): 2249-8001, Vol. 9, Issue 5, Oct 2019, 973-984	ate.net/publication/33700 529 EFFECT OF EGR ON PERFORMANCE OF CI ENGINE WITH
6.Dr B. V. S. RAO1, P. RAVI KIRAN2, Y. SHASHANK3 & S. GOUTHAM4, EXPERIMENTAL INVESTIGATION OF SPRING BACK AND WRINKLING PHENOMENA IN SQUARE PIPES DURING BENDING, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN(P): 2249–6890; ISSN(E): 2249–8001, Vol. 9, Issue 5, Oct 2019, 539–550	<u>ublishpapers/2-67-13</u> 68954760-47.IJMPE RDOCT201947.pdf
Book chapters	7
1.P.Ramalakshmi, T Rushyanth and P. Ravinder Reddy, "Estimation of instantaneous shear modulus in neat resin and multi walled nanotube reinforced carbon epoxy composites by finite element analysis",	https://doi.org/10.100 7/978-981-16-6738-1 _8

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Recent Advances in Computational and Experimental Mechanics, Vol- I, Lecture Notes in Mechanical Engineering,, Springer Nature Singaport January 2022. Page 97 -109.	
 Chinta, V. S., Reddy, P. R., Prasad, K. E., Sai Kiran, B. V. "Experimental and Finite Element Analysis of Fracture Parameters o woven Glass/Epoxy Composite", Recent Trends in Mechanica Engineering, Eds. Singapore: Springer Singapore, pp. 649-660, 2020, 	indexed)
 Chinta, V. S., Reddy, P. R., Prasad, K. E., Vadapally, K. S., "Investigation of Fracture Parameters of Jute/Glass Reinforced Hybrid Composite and Analysis by Using FEA," in Emerging Trends in Mechanical Engineering, Eds. Singapore: Springer Singapore, pp. 215-228, 2020. 	<u>32-9931-3_22</u>
 Chinta, V. S., Reddy, P. R., Prasad, K. E., Vadapally, K. S., Anand, S., Sai Kiran, B. V., "Characterization of Glass/Jute Hybrid Fibre Reinforced Epoxy Composite for Axial Flow Fan Blade", J. Polym. Compos., Volume-7, No- 3, pp. 32-43, 2019. (Web of science indexed Journal, Scientific Journal Impact Factor- 4.22). 	doi: 10.37591/jopc.v7i3.3 427.
 Chinta, V. S., Reddy, P. R., Prasad, K. E., Anand, S., "Investigation of Fracture Toughness of Bidirectional Jute / Epoxy Composite and Analysis by using FEA", Int. J. Mech. Prod. Eng. Res. Dev., TJPRC, Volume- 8, No- 6, pp. 227-238, 2018, 	doi:10.24247/ ijmperddec201827. (Scopus indexed Journal,Impact Factor- 3.2).
6. Ch.Indira Priyadarsini,Sambaraju Abhiram,Rajesh chitimireddy, AnkurShukla, Angle of Attack effect on NACA4404 used in remote-control fixed wing planes, IJRAR2004258, (E-ISSN 2348-1269, P- ISSN 2349-5138), Volume 7, Issue 2, DOI (Digital Object Identifier) -, April 2020.	http://doi.one/10.1729 /Journal.23502
Conferences	
 Pullela Ramalakshmi and Kandaloju Akhil, BEST E-poster on Estimation of ILSS in Neat Resin and CNT Reinforced S Glass Composites by Finite Element Analysis, Page 78, International Conference on Advanced Materials and Processes for Defense Applications organized by Defence Metallurgical Research Laboratory, Hyderabad ,India (DRDO), Hyderabad , Telangana , India , September 23 – 25 , 2019 	
2.P Ramalakshmi and T Rushyanth, "Estimation of instantaneous shear modulus in neat resin and multi walled nanotube reinforced carbon epoxy composites by finite element analysis", 1 st Online International Conference on Recent Advances in Computational and Experimental Mechanics, IIT Kharagpur, West Bengal, India, September 4 – 6, 2020, Page133 -134, ISBN 978-93-5416-440-8 ISBN 978-93-5416-440-8 (eBook).	

 Ch Indira priyadarsini, Abhinav kumar reddy A, Mannepalli Sreekanth, Analysis of a 10mw solar power plant at ntpc ramagundam, International Conference on Advances in Renowned Renewable Energy Technologies(ICARRET), 23rd& 24th October, 2019, VR Siddhartha college, Vijayawada. 	
Placements	
1.Mr Aravind Ramayampeta(ME CAD/CAM) was working with Primesoft IP solutions .now shifted to INFOSYS	
 1601-17-745-101, K Manrohith prasad, Achala IT solutions Pvt.Ltd, Plot: 844, Unit: 201 2nd Floor, Road No: 44 Jublee Hills, Behind Peddamma Temple, CBI Colony, Jubilee Hills, Hyderabad-500033, CIN: U7220TG2009PTC065675 3/09/2019, 3 Lacs 1601-17-745-108, ANKUR SHUKLA, Analysis of Non-Symmetrical 	

Outcomes from the project (2017-18 Outgoing Students)

Airfoils, Joined as Engineer in RCI, DRDO, Hyderabd

esearch or Review Articles)	
dra Mohan Reddy3, Dr.P.Prabhakar Reddy imental Studies on the Effect of Liquid Nitrogen cooling Machining Forces for Machining of Mild steel and Tool pecimens" International Journal of Applied Engineering th ISSN 0973-4562 Volume 14, Number 8 (2019) pp. 1975, Research India Publications	ion.com/ijaer19/ijaerv 14n8_30.pdf
International Journal of Engineering and Innovative	https://www.ijeit.com/V ol%2010/Issue%201/IJI IT1412202007_04.pdf
stion Analysis on Micro-Gas Turbine Combustor Using LPG and Gas, Recent Trends in mechanical Engineering, Springer ore, First Online12 January 2020, , Publisher Name Springer ore, Print ISBN978-981-15-1123-3, Online	07/978-981-15-1124-0_6
it it is it is a second	imental Studies on the Effect of Liquid Nitrogen cooling Machining Forces for Machining of Mild steel and Tool pecimens" International Journal of Applied Engineering ch ISSN 0973-4562 Volume 14, Number 8 (2019) pp. 975,Research India Publications. www.ripublication.com it, Dr. B V S RAO, Role of 3D Printing in Food Industry- A v, International Journal of Engineering and Innovative blogy (IJEIT) Volume 10, Issue 1, July 2020, ISSN: 2277-3754. dira Priyadarsini, A Akhil, V Srilaxmi Shilpa, Non-premixed astion Analysis on Micro-Gas Turbine Combustor Using LPG and I Gas, Recent Trends in mechanical Engineering, Springer ore, First Online12 January 2020, , Publisher Name Springer

Building", FUJAIRAH National Construction Co.L.L.C, "5,500 Dirhams, (Rs. 106379.97)"

2. 1601-16-745-108, VUTUKURU SRILAXMI SHILPA, Associate software engineer in CGI with 5.5 Laks pa

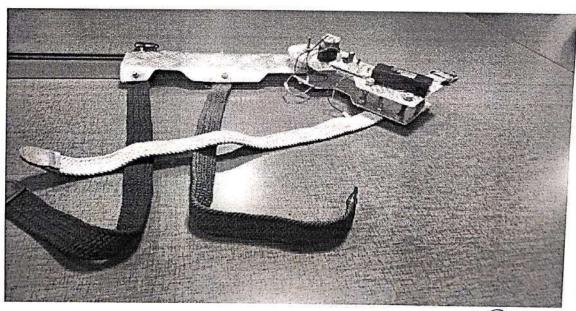
Higher Studies

- 1. 1601-16-745-104, A. AKHIL, "CFD Analysis on Micro Gas Turbine Combustor", IIT Delhi, PhD full time(Teaching Assistantship/Project Assistantship/ Sponsored), No. IITD/Admission/PhD./2018-19, 12/12/2018, Rs.3.72 Lacs as a stipend per annum
- 2. 1601-16-745-108, VUTUKURU SRILAXMI SHILPACompleted Advanced Management program in B usiness analytics in Indian school of business (ISB)

5. Working models/ Projects

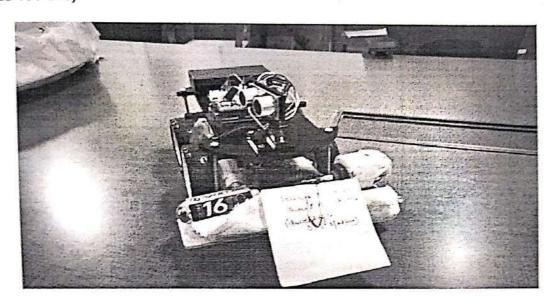
The following are the few working models developed by Mechanical Engineering students during 2017-2022

Model1: Power Generation through Knee Strap Hints (1601-18-736-097, 1601-18-736-104, 1601-18-736-108)

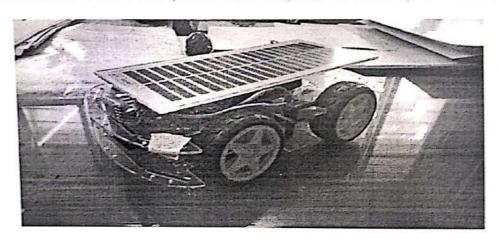


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Model2: Fabrication of Vehicle External Air bag System (1601-18-736-041, 1601-18-736-046)



Model3: Fabrication of Solar Car (1601-18-736-100, 1601-16-736-313, 1601-16-736-314)

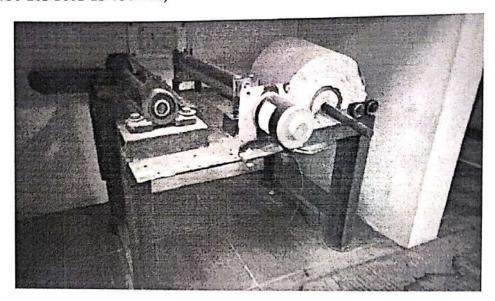


Model4: Design and Fabrication of Semi-Recumbent Bicycle (1601-16-736-016, 1601-16-736-028, 1601-16-736-058)



moreddy

Model5: Design and Fabrication of Automatic Paper Cutter (1601-15-736-081, 1601-15-736-103 1601-15-736-105)



Model6: PRAHETI RACING Team from SAE Club of CBIT participated in the National Level Formula Imperial 2022 competition, organized by ISIE INDIA held at Galgotia University and Buddh International Circuit, Greater Noida, during 26th -30th August 2022.

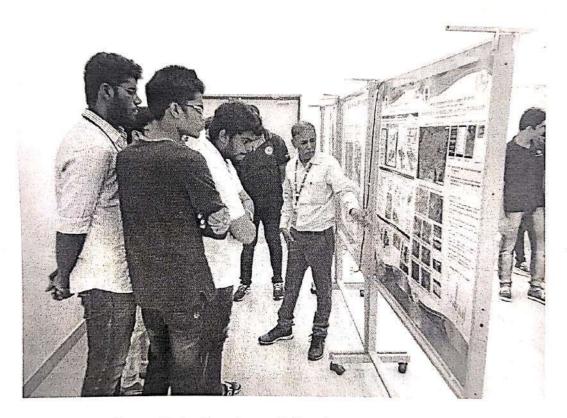


Dreads

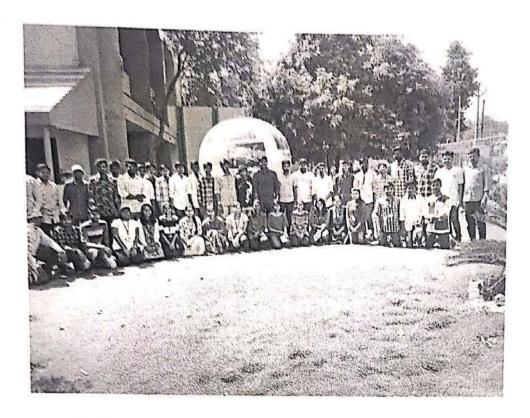
Experiential Learning Methodologies being practiced in the MCA Department

Student Industrial Visits

▶ Mr. G. N. R. Prasad, organized an Industrial visit to ISRO /NRSC , Hyderabad for MCA Students on 23rd April, 2019.



MCA students listening to a Scientist at NRSC, Hyderabad



MCA Students at NRSC Campus, Hyderabad

Alumni Meet

As part of Institute Alumni meet - 2019 "Rejoicing Reunion", coordinators have communicated to all the alumni and invited them to visit the Department on 25-12-2019.

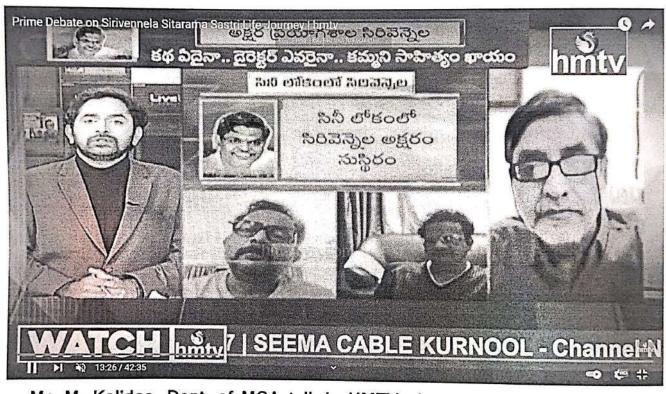


MCA faculty with alumni on 25-12-2019

200/22

Social Activities

Mr. M. Kalidas has delivered his opinions on Sirivennela Sitarama Sastry garu - a well-known telugu lyricist in the "Prime Debate on Sirivennela Sitarama Sastry Life Journey" on 01st December 2021. The program was conducted by HMTV on the occasion of sudden demise of Sirivennela Sitarama Sastry garu.



Mr. M. Kalidas, Dept. of MCA talk in HMTV about Life Journey of Sirivennela Sitarama Sastry garu

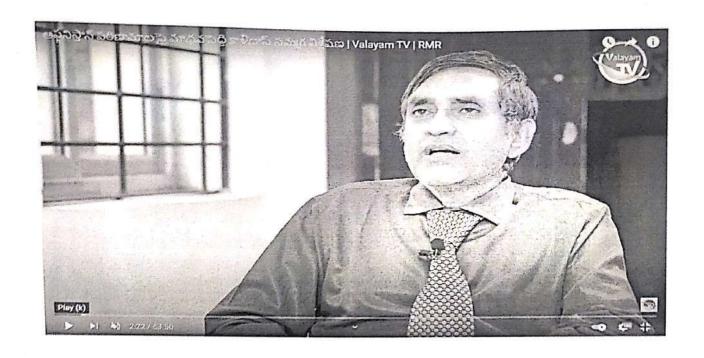
Dr. G. N. R. Prasad participated in the program "TAPF - Industrial Tour & Community Services", organized by FOLK Youth Empowerment club of Hare Krishna Golden temple on 13th November 2021.

Mr. M. Kalidas was invited as Guest speaker by iDream News Channel on "His family background, study, entering into Indian Airforce, Contribution in Kargil War, Analysis on recent attacks on Jammu Airforce station, analysis on how to handle such attacks and motivating younger generation to join in Military services" in the month of September 2021.



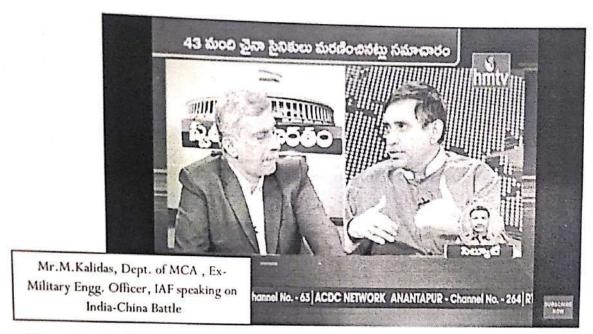
Mr. M. Kalidas, Dept. of MCA talk in iDream News TV about Terrorist
Attacks on Jammu Airforce Station

Mr. M. Kalidas was invited as Guest speaker by Valayam TV on "Indepth Analysis on Afghanistan status after Taliban takeover" in the month of August 2021.



Mr. M. Kalidas, Dept. of MCA talk Valayam TV about Afghanistan Status

- Dr. G. N. R. Prasad participated in the "Fit India 2K Run", conducted by the Department of Physical Education, CBIT on 13th August 2021.
- Department staff participated in "RashtraGaan an initiative by the Ministry of Cultural" to mark Azadi Ka Amrit Mahotsav in the month of August 2021.
- Mr. M. Kalidas was invited as Guest speaker on 30th January, 2021 by i NEWS channel, regards to "Air India Flight crash at Kozhikode airport".



Mr. M. Kalidas, Dept. of MCA talk show in hmtv

On 23rd February 2020, a 2K run conducted as a part of SHRUTHI-2020 curtain raiser, with the theme of "FIT INDIA" at Jalavihar, Hyderabad.



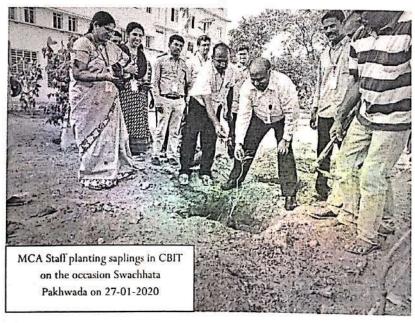
Dr. P. Ravinder Reddy, principle of CBIT, initiating the 2K run program by shaking the green flag

A 22



Assemble of CBIT staff in 2K run

➤ On the eve of Swachhata Pakhwada, a MHRD initiative was carried out by Teaching and Non-Teaching staff of MCA department has carried out plantation of trees around 100 saplings in the college campus on 27-01-2020. This campaign will help to improve greenery in the campus.. As air pollution, urbanization, construction of heavy buildings and residential complexes in around CBIT campus is increasing at a very rapid phase, plantation and nursing of trees will contribute to a large extent by providing fresh air, reduction of air pollution.



20/20/22

The Principal, CBIT and MCA staff in plantation programme, Swachata Pakwada



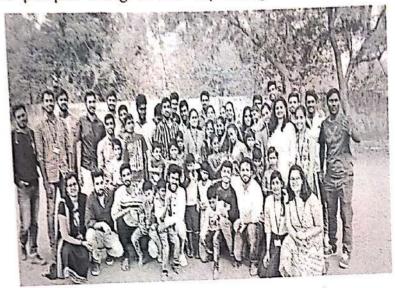
MCA staff planting saplings in CBIT campus



Staff of MCA planting saplings

20/10/22

On 1st January 2020, the NSS CBIT team visited to the Aadharana Orphanage Kismathpur on the occasion of New Year and donated groceries to the people living in the orphanage.



NSS CBIT team in Aadharana orphanage



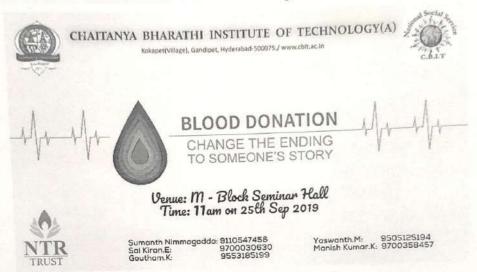
NSS CBIT team speaking with the people of Aadharana orphanage

As part of "Beti Padhao - Beti Bachao", on 5th November 2019 the NSS

CBIT team interacted with the government school girls of the age

20 mos

On 26th September 2019, the NSS CBIT team organized a Blood donation camp in the college campus with the help of NTR Blood donation trust and succeeded with 330+ registrations of blood donations.



CBIT Blood Donation camp brochure



NSS CBIT -MCA & other branches students conducted Blood donation camp

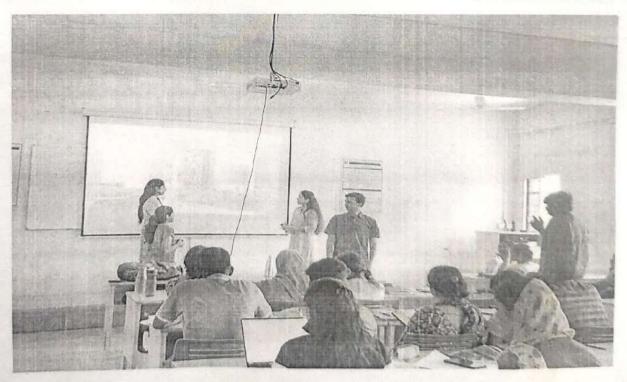
Ad 1027

School of Management Studies

Participative Learning Methodologies

- 1. Team Based Assignments
- 2. Role Plays
- 3. Group Discussions
- 4. Seminars or Workshops or Webinars Organized by Department
- 5. Guest Lectures delivered by Industry
- 6. Activities related to non-verbal communication
- 7. Presentation skills
- 8. Listening skills
- 9. Activities related to Situational Awareness
- 10. Tony Buzan's Mind Mapping Techniques
- 11. War filed 6-3-5 Method

Role play on resources planning and quality management in Operations Management organised by Smt B.Lavanya





Workshop for HR students on career opportunities organised by Dr.Poorna Chandrika, B Lavanya and P. Varaprasad goud



Seminar on Startup and its Basics- Entrepreneurship Development course organised by Smt B.Lavanya



Group Discussion:



https://drive.google.com/drive/folders/1AZIJVIbHY4TvNuUC Cvmmso-qko4
70 7?usp=sharing



S NO	NAME OF THE EVENT	CHIEF GUEST	DATE	DURATION	TARGET AUDIENCE
1	INVESTOR AWARENESS PROGRAM	Dr P Karthika	05.02.202	14:30- 16:00	MBA II and IV Sem.
2	ENTREPRENEURSHIP IN BUSINESS ANALYTICS	Dr D V Srinivas a Kumar	10.12.202	11:00 AM TO 12:30 PM	MBA II SEM
3	INVESTMENT BANKING	Mr Praveen Kumar	24.07.202	10:00 AM to 12:00 PM	MBA II SEM





COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEARS

School of Management Studies

Experiential Learning Methodologies

- ICT in Teaching and learning process
- 2. Industrial Internships
- 3. Industrial Visits
- 4. Community engagement

ICT in Teaching Learning Process

This institute follows ICT-enabled teaching in addition to traditional classroom education. Subsequent efforts are taken by the institute to provide an e-learning atmosphere in the classroom.

- 1. In addition to the chalk and talk method of teaching. Faculty members are using the IT-enabled learning tools such as Powerpoint presentations, video clips, Audio system, and Online sources, to expose students for advanced knowledge and practical learning.
- 2. Classrooms are fully furnished with LCD with Computers, Audio system with mic facility and Wi-Fi facility.
- 3. Most faculty use interactive methods for teaching. The major emphasis is on classroom interaction in research paper presentations, seminars, group discussions, assignments, quizzes, tests, viva and laboratory work.
- 4. Well-secured Wi-Fi provided to Wi-Fi users. Its access is controlled by the system administrator.

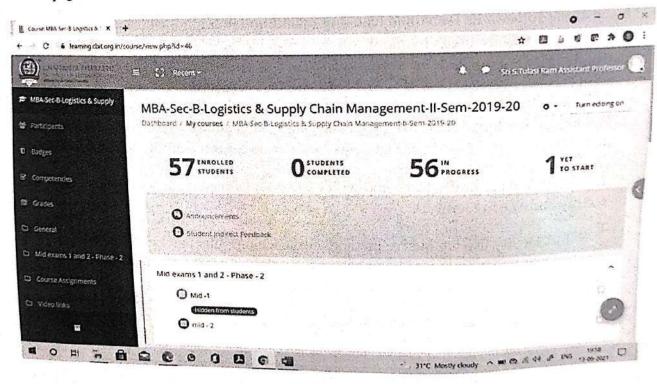
Number of teachers on roll	Number of teachers using ICT (LMS, e- Resources)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
15	15	LED Projector, e-books,	4		e-books e-journals

	e-journals,	
	Intranet,	
	Wi-Fi Campus	
ψ, = =	Videos	

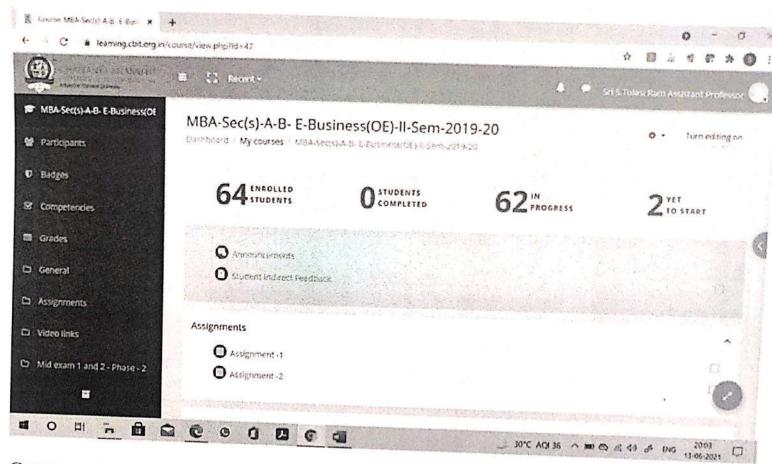
In addition to ICT faculty using LMS (Learning Management System) effectively to keep materials, PPTs, Tests and Assignments through LMS. College maintaining learning.cbit.org.in faculty and students are provided credentials.

Home page of learning.cbit.org.in

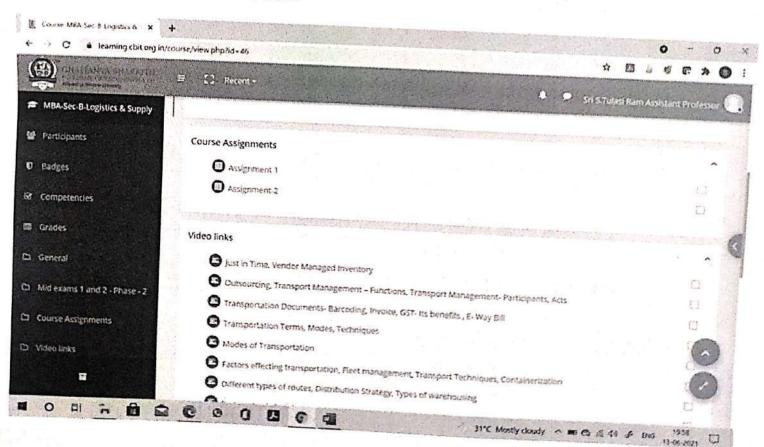
Course page

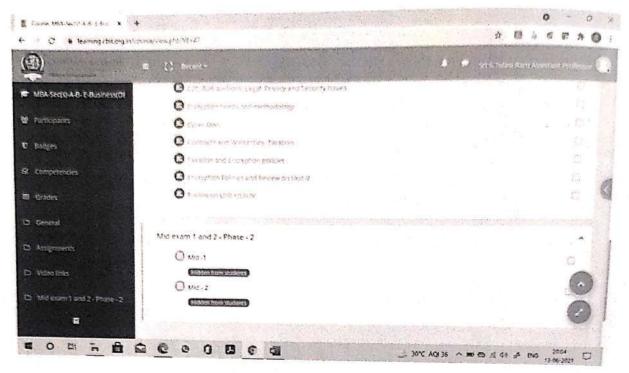






Course assignments and Video links





2. Industrial Internships

MBA II SEMESTER (2020-2022 BATCH)

			NAGEMENT STUDIES 22 BATCH) - SECTION - A
S.No.	Roll. No.	Name of the Candidate	Title
1	1601-20-672- 001	AKHILA ANNASARAM	Online Human Resource Coordinator (INTERN)
2	1601-20-672- 002	ASHFIYA NASEERUDDIN SYED	HR intern
3	1601-20-672- 003	BHAGYASREE KADIMICHERLA	Associate- Business Development



1	1601-20-672- 004	HARSHITHA MUTHYALA	financial trainee
5	1601-20-672- 005	LAHARI ANUMANDLA	Corporate Ambassador Intern
6	1601-20-672- 006	MEGHANA REDDY SANVELLY	HR Intern
7	1601-20-672- 007	MONICA AKUNOORI	Digital Marketing Intern
8	1601-20-672- 008	MOUNIKA JARAPLA	Digital Marketing Intern
9	1601-20-672- 009	NANDINI BADIKE	Sales & Marketing
10	1601-20-672- 010	NAVYA PRIYA DARSHIINI	Human Resource Intern
11	1601-20-672- 011	NAZNEEN INTESHA	HR Intern
12	1601-20-672- 012	NISMA	human resource intern
13	1601-20-672- 013	PRINCESS G	HR Intern
14	1601-20-672- 014	REVATHI J	Online Human Resource Coordinator (INTERN)
15	1601-20-672- 015	RINKU KUMARI	Study on Recruitment and Selection process
16	1601-20-672- 016	RUCHITHA MUCHARLA	HR intern

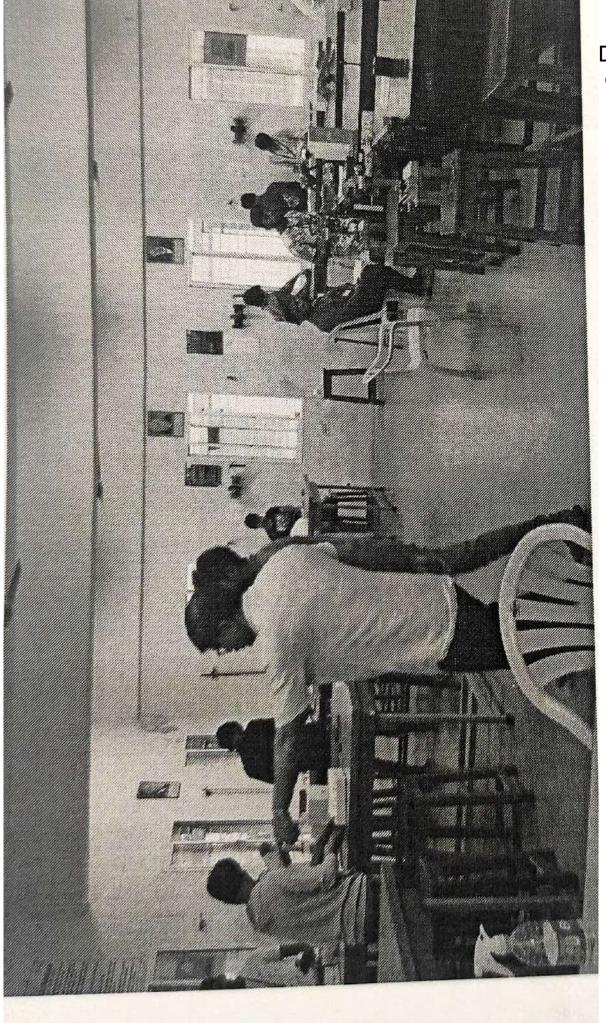
17	1601-20-672- 017	SAHADEV KANCHAN SINGH	A study on Talent acquisition process with reference to CBIT
18	1601-20-672- 018	SAMYUKTHA YADAVELLY	HR trainee
19	1601-20-672- 019	SATYAVENI BODASINGU	Human Resource intern
20	1601-20-672- 020	SIREESHA N	finance Intern
21	1601-20-672- 021	SOUMYA SRI BAGGAM	finance Intern
22	1601-20-672- 022	SUPRIYA	Financial Trainer
23	1601-20-672- 023	SUPRIYA MANDADA	Human Resource Intern
24	1601-20-672- 025	SWETHA EMMIDI N S	General Banking, Credit management, loan recovery
25	1601-20-672- 026	TANUJA GUDAPATI	HR Intern
26	1601-20-672- 027	TEJASWINI R	Financial Trainee
27	1601-20-672- 028	VAISHNAVI BANDARU	A study on Finance and operations
28	1601-20-672- 029	VAISHNAVI REDDY MADI	HR intern
29	1601-20-672- 030	VIHARI S	HR intern
30	1601-20-672-	ABHILASH	A study on Recruitment and Selection

	031	MALYALA	process at CBIT
1	1601-20-672- 032	ANIL P	UK Taxataion - A study with reference to Deloitte
32	1601-20-672- 033	AVINASH BIRADAR	Equity Research Analyst
33	1601-20-672- 034	BHARATH KUMAR ALLADI	Human Resource Intern
34	1601-20-672- 035	NARAPARAJU CHANDU	Financial Trainee
35	1601-20-672- 036	ESHWAR KIRAN ARPULA	A study on Finance and operations
36	1601-20-672- 037	FAYAZ SK	Basic Finance and Accounts with Customer Interface
37	1601-20-672- 038	GANESH KUMAR G	Financial Trainee,(Finance), A study or Recruitment and Selection process at CBIT (HR)
38	1601-20-672- 039	HEMANTH SAI PRASAD RAJU PORANKI	Sales and Marketing Intern
39	1601-20-672- 040	JAGADISH LAVUDYA	Supply Chain Management Intern
40	1601-20-672- 041	KODANDA SAI NIKHIL PADAM	Human Resources Intern
41	1601-20-672- 042	MOHAN S	Digital marketing
42	1601-20-672- 043	NAVEEN KUMAR MANTHRI	HR Intern
43	1601-20-672-	PAAVANA	Financo

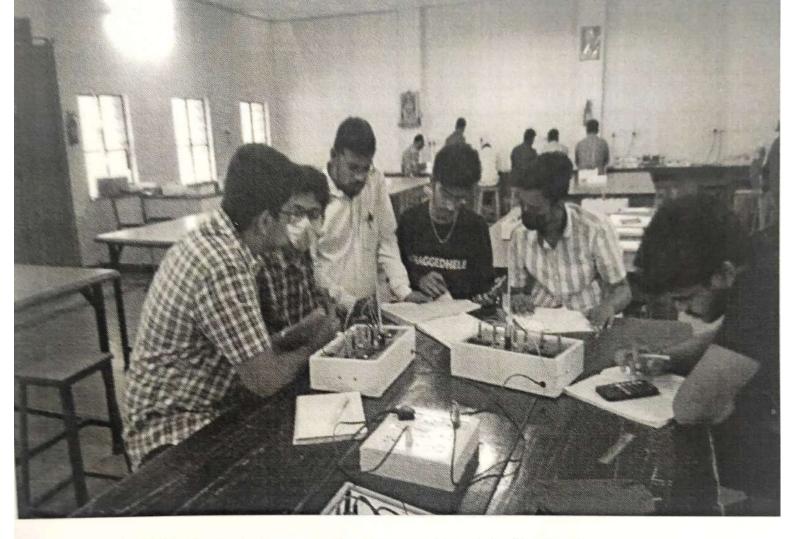


	044	VENKATA SAI MANIKONDA	
14	1601-20-672- 045	PRASHANTH DAPPU	Marketing and Sales
15	1601-20-672- 046	PRUDHVI ANUGULA	Finance
46	1601-20-672- 047	PRUDHVI RAJ MIRYALA	finance intern
47	1601-20-672- 048	PRUDHVI RAJ PILLLALAMARRI	Finance intern
48	1601-20-672- 049	RAJARAM BHUKYA	Operations Management Intern (Finance)
49	1601-20-672- 050	RAMESH JAKKULA	MARKETING INTERN
50	1601-20-672- 051	SAI KIRAN VEMULA	A Study on Chartered Accountant at R Krishna & Associates CA Firm
51	1601-20-672- 052	SAMARA SIHMA REDDY C	Analysing and operations on accounts
52	1601-20-672- 053	SRAVAN KUMAR RENUKUNTLA	corporate ambassador
53	1601-20-672- 054	SRI DATTA CHARAN K	Business Analytics Intern
54	1601-20-672- 055	SRINIVAS POSHETTI	Finance and Research Intern
55	1601-20-672- 056	SUMANTH GORULA	Marketing and sales intern
56	1601-20-672- 057	VAMSHI SHIV VENAKATA	An Overview of HRM functions in ONGC





Department of Physics



B.E/B Tech, students are performing experiments in Physics-2

Professor & Headic Department of Physics Chaltanya Bharathi Institute of Techi Candipet, Hyderabad-500





'Higgs physics and its prospects 'by Prof. Eric Laenen, Professor in Institute of Physics, University of Amsterdam and also a governing Member of CERN Council on 17th Feb 2020

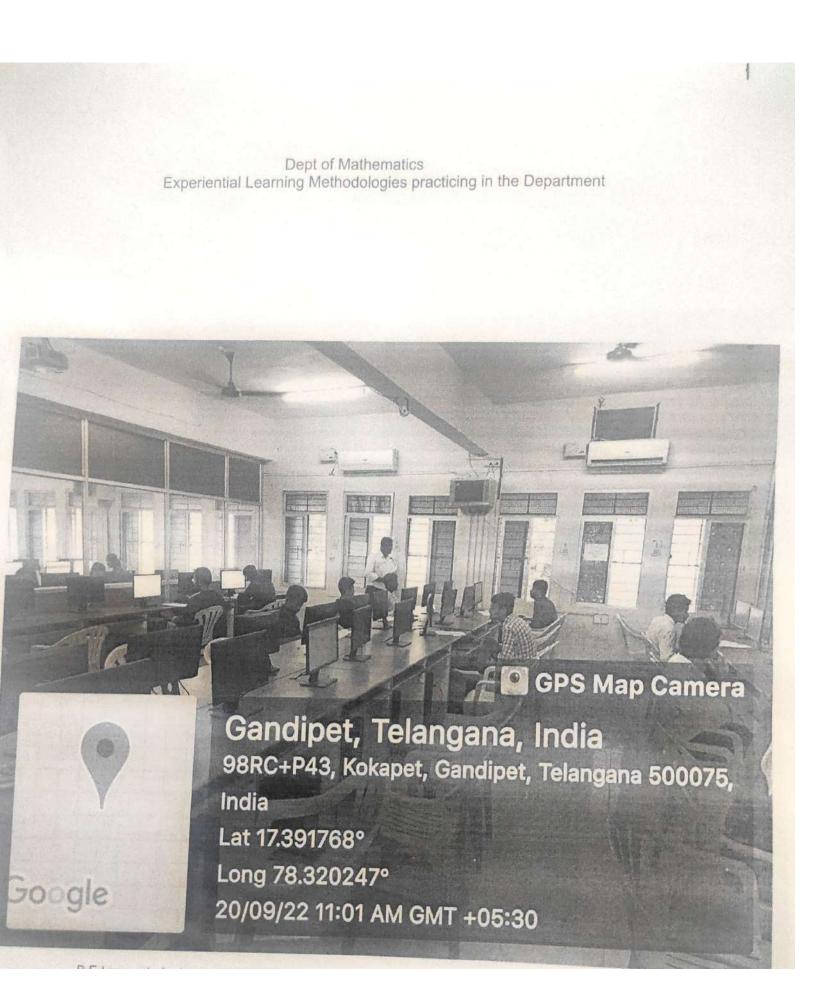
> Professor & Head Department of Physics Chaltanya Bharathi Institute of Technology (A) Candipet, Hyderabad-500075.

LED's and Solar cells by DR.A Sai Prasad Prof., & head, dept.of physics vasavi college of engineering, Hyderabad on 20 Feb 2020





Professor & Head
Department of Physics
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500075.







Department of Mathematics

Participative Learning Methodologies Practiced in the department.

 Department conducts various activities every year under Ramanujan club, where the students participate in huge numbers and learn new things.

Guest talk on Innovative Applications in machine learning and deep learning by using linear algebra



Brochure of Guest lecture



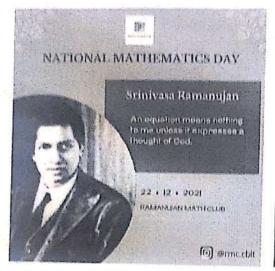
Ramanujan club conducted a Guest Talk on 23-03-2022

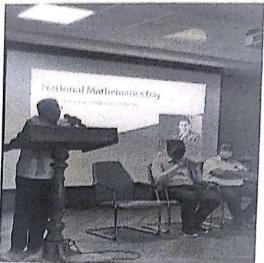
b. voi son

Hod, Mathematics

P. Ray Deeup

Dept.of Mathematics and Humanities haltanya Bharathi Institute of Technology Gapriipet, Hyderabart, 500 075. National Mathematics celebration on the occasion of Srinivasa Ramanujan Birthday.







Department celebrated National Mathematics Day on 22-12-2021.

As part of the celebrations the department conducted quizzes, paper presentations, poster presentation etc.

HEAD

Dept.of Mathematics and Humanities haitanya Bharathi Institute of Technology Gandipet, Hyderabad-500 075. p. rej sup

Hod, Mathematics



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Affliated to Osmania University

TUTORIAL SHEET

Programme	B.E/B.Tech	Section: ALL Branches	Date:	5 _
Academic Year	2017-18	Year:1st	Semester: I	Hour:
Course Name:	Engineering Math	ematics-I	Code:16MTCO1	Time:
Name of the Faculty	M AMARNATH			
Rank of the matrix	$A = \begin{bmatrix} 1 & 2 & -3 & 4 \\ 1 & 0 & -1 & 1 \\ 3 & -1 & 1 & 0 \\ -1 & 1 & 0 & 2 \\ 3 & 1 & 0 & 3 \\ \text{c} & \text{d} & \text{d} & 1 \end{bmatrix}$	$\begin{bmatrix} 9 \\ 1 \\ -1 \\ 9 \\ 9 \end{bmatrix}$ is		
Find the Eigen a) $X_1 = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$; $X_2 = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$	Vectors of the Matrix $X_2 = \begin{bmatrix} -1 \\ 0 \\ 1 \end{bmatrix}; X_3 = \begin{bmatrix} -1 \\ 1 \\ 3 \end{bmatrix}$ $= \begin{bmatrix} -1 \\ 0 \\ 1 \end{bmatrix}; X_3 = \begin{bmatrix} -1 \\ 19 \\ 2 \end{bmatrix}$ Paracteristic equation of the	b) $X_1 = \begin{bmatrix} -1 \\ 0 \end{bmatrix} X_2 = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$	$\begin{bmatrix} -1\\1\\0\end{bmatrix} & X_3 = \begin{bmatrix} 1\\1\\1\end{bmatrix}\\ -1\\6\\1\end{bmatrix}; X_3 = \begin{bmatrix} -1\\19\\2\end{bmatrix}$	
	aracteristic equation of the contract $-2 = 0$ b) $\lambda^3 + 6$	2 0 3)
4 Determine the def	initeness of the quadratic			
	$+z^2$) $^{-\frac{1}{2}}$, find the value of			
6 If $u = x^n \sin\left(\frac{y}{x}\right)$ a) 0 b) nu	then calculate the $x \frac{\partial u}{\partial x}$ c)-nu d)n	$+y\frac{\partial u}{\partial y}$		
7 If $u = (x^2 + y^2)^{\frac{1}{2}}$ a) 0 b) 1	and $x^3 + y^3 + 3axy = c)2$ d)-1	$= 5a^2. Find \frac{du}{dx} at x = a$	and $y = a$.	
	uv = yz; $uvw = z$ F c)- $-u^2v$	ind $\frac{\partial(x,y,z)}{\partial(u,v,w)}$		
-, u ² v	5, 20			

OU.	9	a) -1 b)1 c) 2 d) -2
-	10	Find the Radius of curvature of the curve $x^3 + y^3 = 3axy$ at the point $\left(\frac{3a}{2}, \frac{3a}{2}\right)$
		a) $\frac{3\sqrt{2}}{16}$ b) $\frac{3a\sqrt{2}}{8}$ c) $-\frac{3a\sqrt{2}}{16}$ d) $-\frac{3a\sqrt{3}}{16}$
	11	Find the coordinates of the center of curvature and the equation of the Evolute of the curv $x = a(\cos t + t \sin t); y = a(\sin t - t \cos t).$
		a) (-acost, asint) b) (acost, -asint)) c) (acost, asint) d) (cost, sint)
	12	Find the Envelop of the family of straight lines $2y - 3tx + at^3 =$
		0, where t is the parameter a) $ay^2 = x^3$ b) $y^2 = ax^3$ c) $y^2 = x^3$ d) $ay^2 = -x^3$
	13	Evaluate $\int_{0}^{1} \int_{0}^{1-x} \int_{0}^{1-x-y} \frac{dz dy dx}{(x+y+z+1)^3}$
		a) $\frac{1}{8}[8\log 2 - 5]$ b) $\frac{1}{8}[8\log 2 + 5]$ c) $\frac{1}{8}[\log 2 - 5]$ d) $\frac{1}{8}[8\log 2]$
	14	Evaluate $\int_{1}^{z} \int_{1}^{\log y} \int_{1}^{e^{x}} \log z dz dx dy$
		a) $\frac{1}{4}(e^2 + 13)$ b) $\frac{1}{4}(e^2 + 8e + 13)$ c) $\frac{1}{48}(e^2 - 8e + 13)$ d) $\frac{1}{4}(e^2 - 8e + 13)$
	1:	find the complete area bounded by the parabola $y^2 = 4ax$ and its Latus rectum
		a) $\frac{8}{3}a$ b) $\frac{8}{3}a^3$ c) $\frac{8}{3}a^2$ d) $\frac{8}{3}a^4$
	1	Change the order of integration and evaluate $ \int_{0}^{3} \int_{1}^{4-y} (x+y) dx dy $
		a) $\frac{24}{60}$ b) $-\frac{241}{60}$ c) $\frac{241}{60}$ d) $\frac{241}{69}$ 17 Solve $(y e^{xy}) dx + (xe^{xy} + 2y) dy = 0$
		Solve $(y e^{xy}) dx + (xe^{xy} + 2y) dy = 0$ a) $e^{xy^2} + x^4 + y^3 = C$ b) $e^{xy} + y^2 = c$ c) $e^{xy^2} + x^4 - y^2 = C$
		a) $e^{xy^2} + x^4 + y^3 = C$ b) $e^{xy} + y^2 = c$ c) $e^{xy^2} + x^4 - y^2 = C$ 18 Integrating factor of the Differential equation $y(x^2y^2 - 1) dx + x(x^2y^2 + 1) dy = 0$ a) $\frac{1}{xy}$ b) $-\frac{1}{2xy}$ c) $\frac{2}{xy}$ d) $-\frac{1}{3xy}$
		Find the orthogonal trajectories for the family of curves $r = a(1 - \cos\theta)$ a) $r = C(1 + \cos\theta)$ b) $r = C(1 + \sin\theta)$ c) $r = C(1 - \sin\theta)$ d) $r = C(1 - \cos\theta)$
		Orthogonal trajectory of the $y^2 = 4a(x+a)is$ $y^2 = 4a(x+a)is$ $y^3 = 4a(x+a) + 3a(x+a) + 3a($

c) $y^3 = 4a(x+a)$ d) $y^2 = (x+a)$

Answer:

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ersi

Q1) c	Q2) b	Q3) c	Q4)a	Q5)b
Q6) b	Q7) a	Q8) a	Q9)b	Q10)c
Q11) c	Q12) a	Q13) a	Q14)d	Q15)c
Q16) c	Q17) c	Q18) b	Q19)a	Q20)a

 $y^2 = 4a(x)$

Signature of the Faculty

a) $y^2 = 4a(x + a)$ b)

Head of the Department



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Affliated to Osmania University

TUTORIAL SHEET

ogia	imme	B.E/B.Tech	Section:	Date:	
cade	mic Year	2017-18	Year:1st	Semester: I	Hour:
course	e Name:	Engineering Mat	hematics-II	Code:16MTCO2	Time:
lame	of the Faculty	M.AMARNATH			7.
	a) $y = (c_2 x)e^x$			$e^{3x}x^2 + \frac{e^{3x}}{8}(2x^2 - 4x + 3)$, vi 1 s
2	Solve $(D^2 + 5D)$	+6) $y = 0$, given $y(0)$	y'(0) = 15	$(-e^{-3x})$ d) $15(e^{2x} - e^{3x})$	
3		-Euler equation $x^2 \frac{d^2y}{dx^2}$ $\frac{2}{2} + \frac{x^2 \log x}{4}$ b) $y = c_1 x$	Contraction of the Contraction o	$-c_1x^2+c_2+logx$	
=00000000000000000000000000000000000000		4 4 77	x4 4 4 4	$-c_1x + \frac{1}{x^2} + \frac{1}{4}$	
4	Find the complim cos2x + 9 a) $y = (c_1 + c_2x)$	entary function and pa	rticular integral of the o	differential equation $y'' - 4$ $-2x + \frac{x^2 \cdot e^{2x}}{2} + \frac{\sin 2x}{8} + \frac{9}{4}$	$4y' + 4y = e^{2x} + $
5	Find the complimation $cos2x + 9$ a) $y = (c_1 + c_2x)$ c) $y = (c_1 + c_2x)$ The value of the integral $x = c_1 + c_2 x$	pentary function and particle $(e^{2x} + \frac{x^2 \cdot e^{2x}}{2} + \frac{\sin 2x}{8} + \frac{\sin 2x}{8})$	rticular integral of the or $\frac{9}{4}$ b) $y=(c_1+c_2x)e^{-\frac{3}{4}}$ sinht dt is	differential equation $y'' - q$	$4y' + 4y = e^{2x} + $
	Find the complimation $cos2x + 9$ a) $y = (c_1 + c_2x)$ c) $y = (c_1 + c_2x)$ The value of the integral a : $a) \frac{2s}{(s-2)(s^2-1)^2} b$ $L\{e^{2t} + 4t^3 - 2t^2 + t^3 - 2t^3 + t^3 + t^3 - 2t^3 + t^3 + t^3 - 2t^3 + t^3 + $	entary function and particles are function as $e^{2x} + \frac{sin2x}{2} + \frac{sin2x}{8} + \frac{9}{4}$ and function and particles are func	rticular integral of the original points of the original points $\frac{9}{4}$ b) $y = (c_1 + c_2 x)e^{-\frac{1}{4}}$ sinht dt is $\frac{s-2}{(s^2-1)^2} d \frac{2(s+2)}{(s+2)(s^2-1)^2}$	differential equation $y'' - q$	$4y' + 4y = e^{2x} + $

a) $\frac{1}{2}[-te^{-t} + sint]$ b) $\frac{1}{2}[te^{-t} + sint]$ c) $\frac{1}{2}[-te^{-t} - sint]$ d) $\frac{1}{2}[-te^{-t} + cost]$

Apply Laplace transforms to solve the third order differential equation y''' + 2y'' - y' - 2y = 0 with the initial conditions y(0) = y'(0) = 0 and y'' = 6

- a) $y = e^{2t} 3e^{-t} 2e^{-2t}$ b) $y = e^{2t} 3e^{-t} + 2e^{-2t}$ c) $y = e^{2t} + 3e^{-t} + 2e^{2t}$

- The value of the integral $\int_0^\infty e^{-\sqrt{x}} x^{\frac{1}{4}} dx$
 - a) $\frac{3}{2}\sqrt{\pi}$ b) $\frac{1}{2}\sqrt{\pi}$ c) $\frac{3}{2}$ d) $\frac{5}{2}\sqrt{\pi}$

- $\left(\int_{0}^{\frac{\pi}{2}} \sqrt{\sin\theta} \ d\theta\right) \left(\int_{0}^{\frac{\pi}{2}} \frac{d\theta}{\sqrt{\sin\theta}}\right) =$ 10
 - a) $\frac{\pi}{3}$ b) $-\frac{\pi}{3}$ c) $\frac{\pi}{6}$ d) $\frac{4}{3}$
- $\int_{0}^{\infty} e^{-x^2} \sqrt{x} \, dx \, . \int_{0}^{\infty} \frac{e^{-x^2}}{\sqrt{x}} \, dx =$
- a) $\frac{3\sqrt{2}}{16}$ b) $\frac{\pi}{2\sqrt{2}}$ c) $-\frac{\pi}{2\sqrt{2}}$ d) $-\frac{1}{2\sqrt{2}}$
- The value of the Beta integral $\int_a^b (x-a)^m (b-x)^n dx$ = from the following is 12
 - a) $(b-a)^{m+n+1}\beta(m+1,n+1)b$) $(b-a)^{m+n+1}\beta(m+1,n+2)c$) $(b-a)^{m+n+1}\beta(m,n)$
- The directional derivative of $\emptyset = xy + yz + zx$ in the direction of the vector i + 2j + 2k at the point (1,2,0) 13
 - a) 10/3
- b) -48/5
- c) 5/15 d) 48/50
- If $\vec{F} = 3y^4z^2\vec{i} + 4x^3z^2\vec{j} 3x^2y^2\vec{k}$ then Curl of \vec{F} at (1,1,1) is 14
 - - a) $-14\vec{i} 6\vec{j}$ b) $-14\vec{i} + 10\vec{j}$ c) $-14\vec{i} + 12\vec{j}$ d) $-14\vec{i} 12\vec{j}$
- The value of a for which the vector $\vec{F} = (axy z^3)\vec{i} + (a-2)x^2\vec{j} + (1-a)xz^2\vec{k}$ is irrotational is 15
- a) -4 b) $\frac{8}{3}$ c) 4 d) 3
- The Curl of the vector point function $\vec{F} = xz^3i 2x^2yzj + 2yz^4k$ at (1,-1,1) is 16
 - a) $3\vec{i} + 4\vec{k}$
- b) $3\vec{j} + 6\vec{k}$ c) $-3\vec{j} + 4\vec{k}$ d) $3\vec{j} 4\vec{k}$
- The value of the line integral $\int (xdy ydx)$ around the curve $x^2 + y^2 = 1$ is 17
 - a) -2π b) 2π c) 6π
- The value of the surface integral $\iint_{\mathcal{S}} \vec{F} \cdot \hat{n} \, ds$ where $\vec{F} = x^2 \vec{i} + y^2 \vec{j} + z^2 \vec{k}$ that lies in the first octant, where 18 S is the portion of the plane x + y + z = 1 is

	a) $\frac{1}{4}$ b) $\frac{1}{8}$ c) $\frac{6}{4}$			
19	The value of $\iint_S \vec{F} \cdot \hat{n} ds$ lying in the first octant, where S is the surface of the cylinder $x^2 + y^2 = 16$, $z = 0$ and $z = 5$ is			
	a) 90 b) 100 c) 70 d) 20			
20	By Gauss-Divergence theorem the value of $\iint_s (x dy dz + y dz dx + z dx dy)$ that lies in the first octant of the surface S representing the plane $x + 2y + 3z = 6$			
	a)18 b) 10 c) 30 d) 45			

Answer:

Q1) a	Q2) a	Q3) c	Q4)a	Q5)a
Q6) a	Q7) a	Q8) b	Q9)a	Q10)b
Q11) a	Q12) a	Q13) a	Q14)d	Q15)c
Q16) c	Q17) b	Q18) a	Q19)a	Q20)a

Signature of the Faculty

HEAD

Dept.of Mathematics and Humanities
Chaitanya Bharathi Institute of Technology
Gandipet, Hyderabad-500 075.





Department of English

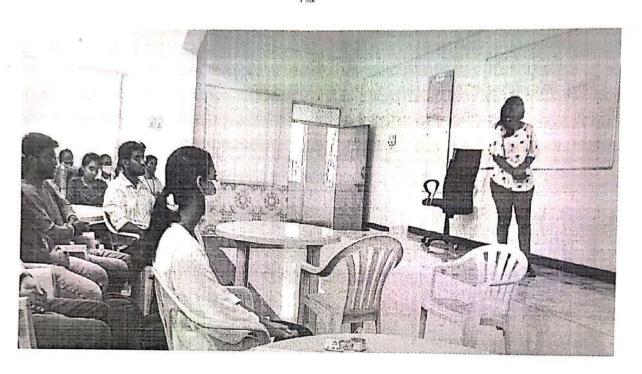
List of the faculty using ICT Tools

Name of the Faculty
Mrs. A. Vijaya Lakshmi
Mr. Srinivas Andoju
Mr. K. Naveen Kumar
Dr. Shagufta Parween
Dr. Shirisha Deshpande
Dr. Nandigama Madhu
V,Laxman
Dr. Diya Narayan Panjwani

HOD Dept of English





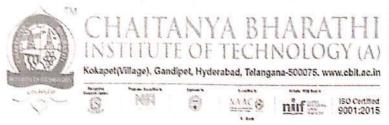


Presentations made by students using audio-visual aids in the language lab.

Dept of English

HEAD

Dept.of Mathematics and Humanities Chaitanya Bharathi Institute of Technology Gandipet, Hyderabad-500 075.



years



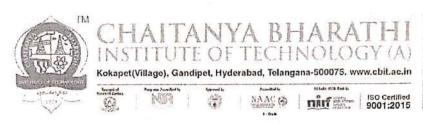
Learning the nuances of Group Discussion in Communication Skills Lab

HOD GOH

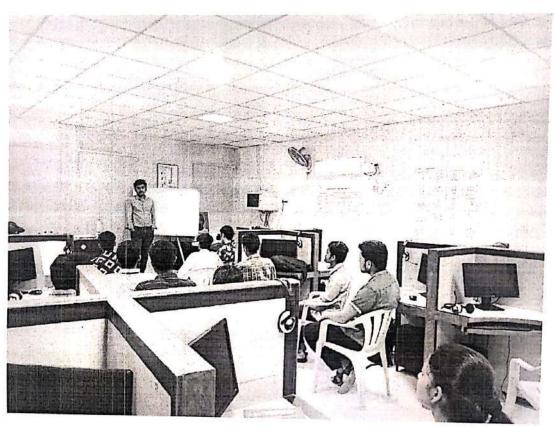
Dept of English

HEAD

Dept.of Mathematics and Humanities
Chaitanya Bharathi Ins. 'e of Technology Gandipet, Hygerapad-500 075



COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION
YEAR



Learning about pronunciation of words through Phonetics in the Computer Assisted Language Lab

Dept of English

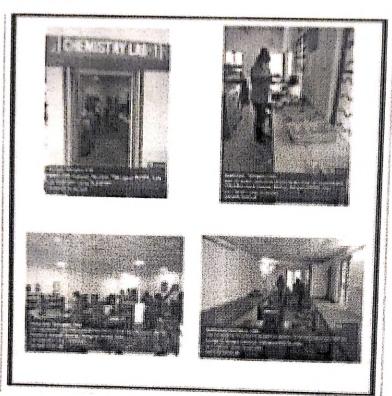
Dept.of Mathematics and Humanities
Chaitanya Bharathi Lute of Technology
Gandipet, hyderactor 500 075.

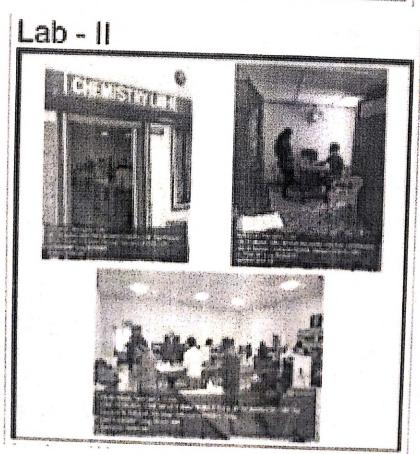
Department of Chemistry

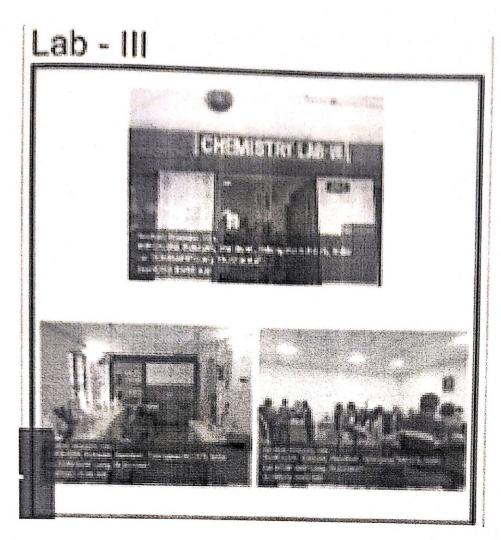
Criteria 2.3.1 (Experimental Learning Methodologies)

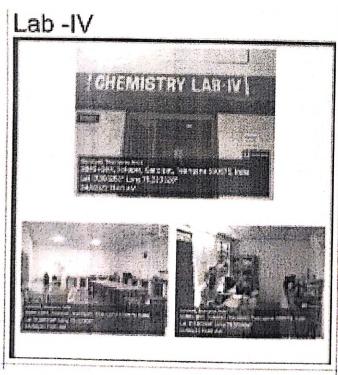
Four Laboratories:

Lab I

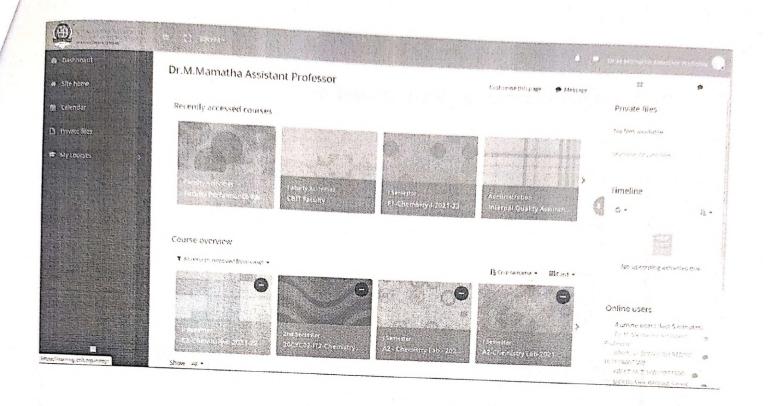








Use of LMS for experimental learning:



Department of Chemistry

Criteria 2.3.1 (Participating Learning Methodologies)

Conducted an FDP programme on March 2021

Chief Petron

Kavi Kireeti Dr. V Malakonda Reddy

President, CBIT

Advisor

Prof. G. P. Saradhi Varma

Principal - CBT

Convence

Prof. K. LAXMI

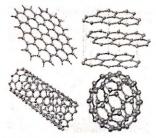
Head, Department of Overnistry

Coordinators Dr. S. Shyleja Dr. M.Mamatha Dr. P. Muralikrishna Dr. M.Rama Devi

Members
Dr. K. Rameeh
Dr. D. Seritha
Dr. G. Venksta Rameeh
Dr., N. Mahender Reddy
Dr. K. Satish Kumar

Guidelines

- Eligible participants will be selected based on first come first serve base and will be internated by e-mail only.
- e-Certificate will be issued to the participants, who have an attendance of minimum 80%



Registration Details

- No Registration Fee
- All the participants are requested to register using the following link

https://forms.gle/1/GotonVaQBH1dcl8

For Further Details Please Contact 9848711523; 7075428999

Email id: Idp2021_chemistry@cbit.ac.in





RECENT TRENDS IN ADVANCED

MATERIALS SCIENCE AND
ENGINEERING TECHNOLOGY
(RTAMSET-21)

08th - 12th March, 2021



Organized by

Department of Chemistry Chaltenya Bharathi Institute of Technology

outya celebrati energia del 1801/2008
(Autonomous under UCC)
Affiliated to Odmenia University
Gandipet, Hyderathad - 5000/5
Telangana State, Incha.

About CBIT

CBST is one of the premier Engineering Institutes in evila, person el Talangeria State, when is at itylic surroundings of Gardipot Liake, Hyderabadi, The vollage offers have UG and Reven PG programs, it has been standing as a temple of knowledge ha the paid 42 years by processing about 25 000 Emergy and skilled Grantalla Engrasors, who are successful in their Carbons, Survey all over the Guide British and Mentancial Conditional with good EAMCET Rank as basking athlesions at CBT CBIT Students are prepared and perfected to excare Plazaments in reputed MNCs. The Institute has brisin accordated by NAAC - USC with "A" Grada and the various programs are accordingly NEA -ACTE. The UGC has granted Autonomous Status from the Americanic Year 2013-14 orwards. The Grant's recorded from AKITE USC are worth about Hs. 2.75 Crosse. Storquet Academic Standards, industry Compliant Teaching Methodology, Repotech Projects from Private and Public Sector toperations includes a Engreening and Management and Consultancy Practice, creation the trattate to establish its identity in this Technical Education and a Rank still No. 1 amongst the Private Engreening Cologes in toth the Tidayu Speaking

About the Department

The Department of Charmshy surves the purpose of impating knowledge in the care stance subject, which is a foundational building block for most engineering disopered. As outh, high luch labs with the lattest terminates and faculty marriages of the calogo looking to strengthen. Four basis is this subject. A form of undermally capable backers and staff marriages feep the department running in but throttle.

The vision of the dispartment is to develop it rito a number of learning, offering postgraduate and rosseach programs in pure and applied chamistry.

The mission of the department is to impart value based test seas oderation so that the read generation angineers who serve docasty will be produced.

About the Faculty Development Programs

- The main objective of this one week intensive Facusty. Development Program is to timing together exports term inchangy and academia to facilities effective interaction leading to knowledge of length.
- To provide a forum to the faculty to quarich their truns for creativity is frontier areas of materials source.
- Materials science is a key technology for environmental sustainability development and therefore this is a growing input of materials in originating technology.
- To lease an technological developments in the field of busic sciences, mano technology, mechanical engineering etc.

Topics to be covered in the FDP

The topics include introductory concepts and advanced topics with various applications. The following topics will be covered but are not finited to:

- Nano materials dis biomedical applications
- Composite materials synthesis and characteristics.
- · Solar coës
- Polymor materials
- Smart materials and its applications
- Advanced functional materials
- Artificial Intelligence based moduling design of functional materiots
- Magnetic oxide nami particles

Resource Persons

Resource Persons will be from Renowned Institutions, universities, Industries and CRIT.

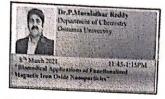
Elgibility

The lacusty morniburs of ACTE approved individuous, research activities, PG Scholars and inchatines.



One week online Faculty Development Programme on Recent Trends in Advanced Materials Science and Engineering Technology 8th - 12th March, 2021













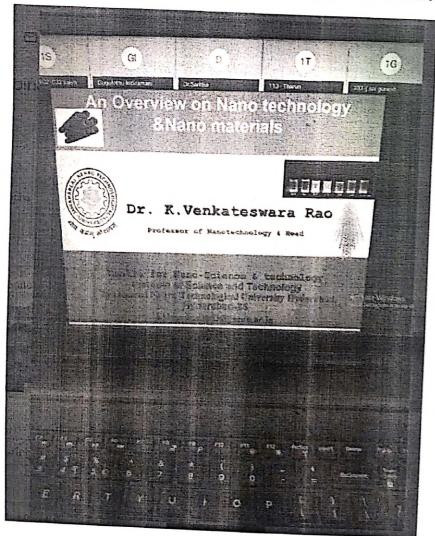


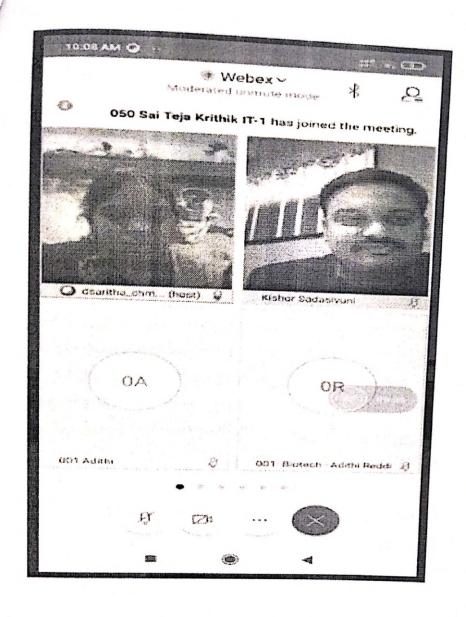






Conducted a online guest lecture for B.E/B.Tech 1st sem students in June 2020





Department of Chemistry

Criteria 2.3.1 (Problem Solving methodologies)

Question Bank:

- 1. Define molecular orbital.
- 2. Why is O2 paramagnetic in nature.
- 3. What are the units of first and second order rate constant.
- 4. Summarize the aromatic nature of benzene.
- 5. Compare the order and molecularity of a reaction.
- 6. Summarize the main postulates of molecular orbital theory.
- 7. Making use of an example, write order, characteristics, units, half life period and its rate
- 8. Sugar is fermented in a 1st order process (using enzyme as a catalyst) with a rate constant of3.3 *10-4. Solve the half life of this reaction.
- 9. Apply MOT to draw the energy level diagram of CO.
- 10. Construct the MO energy level diagram of O2-
- 11. What are nanomaterials? Give some applications.
- 12. Classify carbon nanotubes? Explain their unique characteristics &its applications
- 13. Define conducting polymers? Explain its applications.
- 14. Demonstrate synthesis of Aspirin and uses of Aspirin
- 15. What is the difference between lithography and photolithography?
- 16. Identify main difference between scanning and

transmission electron microscopy?

- 17. Explain the preparation of nano materials by using sol-gel methods. 2. Classify conducting polymers? Give its applications.
- 18. Explain the synthetic procedure and uses of Aspirin.
- 19. Show the Synthesis of (i) Paracetamol (ii) Atenolol.
- 20. Demonstrate the fabrication of integrated circuit.
- 21. What is photolithography process?
- 22. Define intensive and extensive properties with examples
- 23 Discuss the statements and limitations of first law of thermodynamics.
- 24. Why entropy decreases with increase in temperature?
- 25. Explain the physical significance of entropy
- 26. Explain the criteria for spontaneity in terms of Gibbs free energy.
- 27. Define the terms SOP and SRP.
- 28. What do you understand by electrochemical series? Give its applications.
- 29. Write Nernst equation and mention the terms involved in it.
- 30. Represent saturated calomel electrode and write the electrodic reactions for oxidation and reduction processes.
- 31. Consult the table on standard electrode potentials and suggest three substances that can oxidise Fe2+ ions under suitable conditions.
- 32. Suggest two materials other than hydrogen that can be used as fuels in the fuel cells.
- 33. Arrange the following metals in the order in which they displace each other from their salts. Al, Cu, Fe, Mg and Zn
- 34. What are fuel cells? Give any two examples of a fuel cell.

- 35. Define the following (i) Plane of symmetry (ii) Centre of symmetry.
- 36. What is stereoisomerism? Give the classification of stereoisomerism
- 37. Outline the stereochemistry of Tartaric acid and lactic acid
- 38. What is Saytzeff rule?
- 39. Explain the Diels Alder reaction with examples.
- 40. What are the differences between cis and trans geometrical isomers?
- 41. Illustrate the sequence rules for R, S nomenclature.
- 42. Explain mechanism of SN1and SN2reactions.
- 43. Explain the mechanism of nitration of benzene.
- 44. Describe and apply the E, Z nomenclature for naming of olefins.
- 45. Define Hard water and how do you distinguish hard water with soft water? BT-1
- 46. Give the reactions of soap with hard water.
- 47. Explain the terms Carbonate hardness (temporary) & Non-Carbonate hardness (permanent hardness).
- 48. How do you express the concentration of hardness in terms of equivalents of CaCO3? & why CaCO3 is chosen as standard to express the concentration of hardness present in water.
- 49. Bring out the significance of CaCO3 equivalents.
- 50. Define alkalinity of water & name the types of alkalinity based on the alkalinity causing ions.
- 51. Give the significance of Reverse Osmosis method for softening water.
- 52. Give the specifications of potable water according to ICMR & W.H.O.
- 53. Give the significance of Break-point chlorination.
- 54. Define i). Biological Oxygen Demand (B.O.D) & ii) Chemical Oxygen Demand.