

Annamacharya Institute of Technology & Sciences, Tirupati (Autonomous)

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Description on Various Methods of Collaborative learning Activities

Collaborative learning activities are Educational exercises that encourage students to work together in groups towards a common goal. This approach promotes active learning, engagement, and teamwork, while allowing students to share their unique perspectives and ideas. Examples of collaborative learning activities include group projects, peer teaching, and problem-solving tasks. By participating in these activities, students can develop important interpersonal skills and deepen their understanding of the subject matter.

Jigsaw Activity

Jigsaw activity is a cooperative learning strategy that involves dividing students into groups and assigning each member a specific role. Each member becomes an expert on one piece of information and shares it with their group members who have different pieces of information. Together, they construct a complete understanding of a topic or concept. This strategy promotes active participation, critical thinking, and collaboration among students, while also encouraging individual accountability and ownership of learning. It can be applied to a variety of subjects and grade levels.



Group discussion Activity

Group discussion activity is an instructional strategy that promotes active learning through student-led conversations. It involves dividing students into small groups to discuss a topic or concept, share their ideas, and engage in critical thinking. The group members take turns

speaking, listening, and responding to each other's ideas, building upon them to deepen their understanding of the topic. This activity encourages participation, collaboration, and the exchange of diverse perspectives among students, fostering a more inclusive and engaging classroom environment.



Seminar Activity

A Seminar activity is an instructional method that provides a platform for students to explore and discuss complex topics in a collaborative setting. It is typically led by an expert on the subject who facilitates the discussion and guides the participants. Seminar activities encourage critical thinking, active participation, and the exchange of diverse perspectives among students. By engaging in this type of activity, students can deepen their understanding of a topic and develop skills such as effective communication, analytical thinking, and problem-solving.



Think pair share Activity

Think pair share activity is a cooperative learning technique that promotes active participation and collaboration among students. It involves three stages: first, students are given a problem or question to consider individually. Next, they pair up with another student to discuss their ideas. Finally, the pairs share their thoughts with the larger group. This activity fosters critical thinking, reflection, and communication skills, while also allowing students to hear and

appreciate different perspectives. It can be used in a variety of educational settings and subject areas.



Four corners Activity

Four corners activity is a collaborative learning strategy that involves dividing students into four groups and assigning each group to a different corner of the classroom. Each corner represents a different response or opinion to a particular question or statement. Students move to the corner that best represents their views and discuss their reasoning with their group members. This activity promotes active engagement, critical thinking, and the exchange of diverse perspectives among students. It is an effective method for exploring complex issues and encouraging respectful debate.



Flipped Class room Activity

Flipped classroom is an instructional approach where traditional classroom activities, such as lectures and direct instruction, are moved outside of the classroom through the use of online resources such as videos, articles, and quizzes. This allows students to learn the material at their own pace and in their own time, which can be especially beneficial for students who need more time to understand complex concepts. In the classroom, the focus shifts from teacher-led instruction to student-centered activities such as group work, discussions, and project-based learning. This approach allows for more personalized learning, greater student engagement, and a deeper understanding of the material.



Note: Sample copies are enclosed

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Name of the Activity: Group Discussion



Faculty Incharge

culty Facilitator

B. R rod HOD

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Date: 17/12/2022

Subject Name: SOFTWARE ENGINEERING Year & Branch: III-I B.Tech, CSE-3

Activity : Group Discussion on Overview of Software Design and User Interface Design concepts(Unit-3)

Outcomes:

- It helps in building comprehension
- It encourages cooperative learning among students
- It bulids confidence and enhance listening and speaking skills.

Procedure: Activity is conducted in 1 level. 8 teams have participated..

LEVEL-1: Dividing into "Home groups"(teams)

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	Batch 1	Overview of Software Design	
2	Batch 2	Cohesion and Coupling	
3	Batch 3	Layered Arrangements of Modules	
4	Batch 4	Structured Analysis	
5	Batch 5	Data Flow Diagrams(DFD)	50 min
6	Batch 6	Charateristics of User Interface Design	
7	Batch 7	Fundamentals of Component based GUI development	
8	Batch 8	An UI Design Methodology	

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LEVEL-1: Dividing into "Home groups"(teams)

Batch	Roll Number
	20AK1A0535
	20AK1A0529
	20AK1A05E9
2	20AK1A05F7
	20AK1A05C3
	20AK1A05E3
	20AK1A05G3

Batch	Roll Number
	20AK1A0521
	20AK1A0528
	20AK1A05D8
4	20AK1A05D7
	20AK1A05G6
	20AK1A05C7

Batch	Roll Number
	20AK1A05C4
	20AK1A05D6
6	20AK1A05E1
0	20AK1A05E7
	20AK1A05F5
	20AK1A05F9

Batch	Roll Number		
	19AK1A05G3		
	20AK1A05D2		
Q	20AK1A05F4		
0	20AK1A05D9		
	20AK1A05D5		
	20AK1A05E6		

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Batch	Roll Number
	20AK1A0533
	20AK1A0526
	20AK1A0532
1	20AK1A0534
	20AK1A0531
	20AK1A05E3
	20AK1A05F8

13

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Batch	Roll Number		
3	20AK1A05C1		
	20AK1A05E5		
	20AK1A0527		
	20AK1A0525		
	20AK1A0530		
	20AK1A0536		

Batch	Roll Number	
	20AK1A05F3	
	20AK1A05D3	
r	20AK1A05C6	
5	20AK1A05F0	
	20AK1A05E8	
	20AK1A05F6	

Batch	Roll Number	
	19AK1A05I3	
	20AK1A05G1	
	20AK1A05C2	
7	20AK1A05E0	
	20AK1A05D4	
	20AK1A05D0	
	20AK1A05G2	

Batch - 6

Branch : CSE Subject : Software Engineering Date : 17-[12]2022 Topic : Characteristics of user interface Design Group members : 20AKIA05C4 20AKIA05D6

20 AKI A05 D6 20 AKI A0 5E1 20 AKI A0 5E7 20 AKI A0 5F7 20 AKI A0 5F9

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Batch-6 Topic:- characteristics of user interface design clear and simple:- A good user interface powides a clear understanding of what is happening behind the scenes or powides visibility to the functioning of the system. Creative but-familiar:-When the users are familiar with Something and know how it behaves, navigation becomes Intuitive and Consistent: The controls and information must be lard out in an intuitive and Consistent way for an interface to be easy to use and navigate. Casier. Responsive: " If the interface fails to keep up with the demands of the wear, this will significantly diminish their demands of the wear, this will significantly diminish their experience can result in frustration, pasiticularly when trying to perform basic tasks Marntainable:- A us should have the capacity for and changes to be protogolated without causproy a conflict

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of interest.

Batch-5

Brauch : CSE Subject : Sottware Engineering Date : 17/12/22 Ropic : Data Flow Disgram (DFD) Grapmanbers:-

20AKIAOSAF3 20AKIAOSD3 20AKIAOSCC6 20AKIAOSFO 20AKIAOSE8 20AKIAOSF6

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- DFD (Data How Diagram) Batch.no:5

· conat is DFD? A Dota Flow Diogram (DFD) is a graphical OT Visual Representation using a Standarized Set of Symbols and notalions to describe a business's operations through the movement. · How are DFD's used? DFDs make it easy to depict the business requirements of applications by Representing the Sequence of procen steps and that of information using visual Representation · Difference b/w Logical DF12 and physicaDDED? Logical DFD'S Represent logical information Hous in Revalively abstract teems. physical DFDS show more physical information flow debil

· what Symbols and notations are used in DFDs, -> UML Symbol. Enternal subity X Procem - Dept. of Computer Science . Engg. 22porum Annamacnarya Institute of thnology & Sciences, Tirupati-5

Batch-2

Bronch : CSE

Subject : software Engineering

Date : 17/12/22

Topic : cohesion and coupling

Group members :-

20AKIA0535 20AKIA0529 20AKIA05E9 20AKIA05F7 20AKIA05C3 20AKIA05E3 20AKIA05E3

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Cohesion:-

cohesion is the indication of the velation. -ship within the module. It is the concept of intramodule cohesion has many types but usually, high cohesion is good for software. <u>Coupling</u>:-

coupling is also the indication of the relationships between modules. It is the concept of the Inter-module. The coupling has also many types but Usually, the tow coupling is good for the software

module_2 module -2.

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Dept. of Computer Science a Engs Annamacharya Institute of Ihnology & Sciences, Tirupati-5 cohesion:

* cohesion represents the functional strength

* cohesion is created between the same module * There are six types of cohesion

> Functional cohesion

-> Procedural cohesion

-> remporal cohesion

-> sequential cohesion

-> Layer cohesion

-> communication cohesion

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coupling :-

* coupling represents the independence among modules.

* coupling is created between two different modules.

* There are six types of coupling

> common coupling

-> control coupling -> stamp coupling -> Data coupling

> content cuptiong.

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SNO POLLNO		STUDENT	Socially Revant Project - II BATCH 19AK 2021-2022			
S.NO	ROLL NO	NAME	Team No	Project Title	Guide Name	
1	19AK1A0553	HARSHITHA CHOWDHARY N				
2	19AK1A0564	YnJAHNAVI A			Dr. N. Badrinath	
3	19AK1A0526	CHARAN BABU M			Ditto Distingu	
4	19AK1A0539	DIVYA M		SMART GUIDE		
5	19AK1A0508	AMULYA P				
6	19AK1A0532	DEEPTHI M	2		Dr. Shaik Jumlesha	
7	19AK1A0520	BHUMIKA K	2		Dironaro	
8	19AK1A0525	CHANDRU M		HEALTH HUB		
9	19AK1A0554	HASITHA V				
10	19AK1A0530	CHILIMI CHINNA BABJI SAHEB	3		Dr.S. Athinarayanan	
11	19AK1A0511	ANUPA K N	5	GET TAXI MANAGEMENT		
12	19AK1A0563	JAGADISH K		SYSTEM		
13	19AK1A0518	BHARGAVI S				
14	19AK1A0502	ABDUL NOWREEN	4	AUTHENTICATING	Mr. N. Venkata Vinod	
15	19AK1A0501	GAZI MOHAMMAD MEESAM		AND VEHICLE THEFT	Kumar	
16	19AK1A0510	ANIL V		ALERTING SYSTEM		
17	19AK1A0521	BINDU SREE C				
18	19AK1A0545	GOWTHAMI M	5		Mr. B Sunil Kumar	
19	19AK1A0534	DHALMIKA SATAKARNI P				
20	19AK1A0533	devananda		ATM SYSTEM		
21	19AK1A0550	HARISHITHA K				
22	19AK1A0540	DIVYA N	6		Mr. G. Ramakrishna	
23	19AK1A0538	DIVAKAR REDDY P		ENCRYPTION OF DATA		
24	19AK1A0517	BHARGAV A		USING IMAGE		
25	19AK1A0512	ANUSHA S				
26	19AK1A0514	ASHISH S	7		Mr. T. Sreenivasula	
27	19AK1A0523	CHAMUNDESWARI S		TEXTUAL VIDEO TO	Reddy	
28	19AK1A0549	HARI PRIYA M		SPEECH INTERFACE		
29	19AK1A0557	HEMANTH KUMAR P				
30	19AK1A0506	ΑΟΙΤΥΑ Τ	8		Ms. M. Reddi	
31	19AK1A0542	GAYATHRI D	0		Durgasree	
32	19AK1A0568	SHAIK AYESHA		FIRE DETECTION SYSTEM		
33	19AK1A0521	BINDU SREE C				
34	19AK1A0558	HEMASREE C	c		Ma S. Royanth Babu	
35	19AK1A0544	GOWTHAM G	9	SEAT ALLOCATION IN	WIT, S. Revalta Babu	
26	194K1A0524	CHANDRAMOULI A		(SOUTHERN RAILWAYS)		

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37	19AK1A0550	HARISHITHA K				i
38	19AK1A0507	AJAY KUMAR S	10			
39	19AK1A0509	ANIL KUMAR E	10		Mr. N. Venkatramana	
40	19AK1A0543	GOPICHAND B		SMART TRASH BIN SYSTEM		
41	19AK1A0512	ANUSHA S				
42	19AK1A0519	BHAVITHA B	11			
43	19AK1A0536	DILEEP P			Mr. T. Sai Kishore	
44	19AK1A0547	HANEEF G		VOICE BASED EMAIL		
45	19AK1A0557	HEMANTH KUMAR P				
46	19AK1A0504	ABHISHEK K	12			
47	19AK1A0548	HARI KRISHNA A	12		Mr. T. Sai Kumar	
48	19AK1A0541	GANGA REDDY P		DETECTION		
49	19AK1A0537	DINISRI P				
50	19AK1A0551	HARSHINI K				
51	19AK1A0555	HEMA SAI M	13		Mr. M. Kiran Moni	
52	19AK1A0562	JAGADEESWARI K		GYM MANAGEMENT		-
53	19AK1A0559	INDRAJA C		UNITEN		,
54	19AK1A0503	ABHINAYA SATYA M	-			
55	19AK1A0529	CHENNAKESAVA REDDY S	- 14		Ms. O. Sahitya	
56	19AK1A0560	JAGADEESH M V S	-	REAL - TIME OBJECT		
57	19AK1A0522	CHAITANYA M		MEASUREMIEN		
58	19AK1A0556	HEMACHANDRA K	-			
59	19AK1A0565	JAYABHARATHI S	15		Ms. D. Dhanya	
60	19AK1A0546	GUNA SEKHAR B	-			
61	19AK1A0505	ADHIVISHNU G		DWELLING AUTOMATION		
62	19AK1A0531	DEEPAK SAI N	-			
63	19AK1A0535	DHANUSH A	16			
64	19AK1A0527	CHENCHU LAKSHMI A			Ms. P. Anusha	
65	19AK1A0516	BHARATH A	-			1
				AMAZON PRICE ALERTS		I w

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	Socially Revant Project - II BATCH 19AK 2021-2022					
SNO	ROLL NO	STUDENT NAME	Sociali	Project Title	Guide Name	
1	10414140000	LUVIONEE V	Team No			
	19AK1A0572	JAYASREE K	-	CONSIGNING INFO	Dr. N. Badrinath	
2	19AK1A0588		- 17			
3	19AK1A05B4	PAVAN KUMAR C	-			
4	19AK1A0587	LEELADHAR S	-	VEHICLE BUSINESS		
5	19AKTA05A3	MOUNIKA D	-		Dr. Shaik Jumlesha	
0	19AK1A05B9	PREMA LATHA E	- 18	SYSTEM		
/	19AK1A0576	KAVYA D	-			
8	19AK1A05B6	PAVAN SAI REDDY E				
9	19AK1A0593	MADHUSUJAN G	-	AIRLINE MANAGEMENT	Dr.S. Athinarayanan	
10	19AK1A0583		- 19	SYSTEM		
11	19AK1A0575	KAVERIT	-			
12	19AK1A0581					
13	19AK1A05C2	PUJITHA J	-	STAY FIT	Ms. L. Charitha	
14	20AK5A0511	SHAIK FIRDOSH	20	Carlos		
15	20AK5A0501	RALEKTA	-			
16	19AK1A05A6	MUNI TEJA E		ATTENDANCE	Ms. H. Teja	
17	19AK1A0592	MADHUSREE B	-	MANAGMENT SYSTEM USING LOCAL BINARY		
18	19AK1A05A0	MEGHANA G	21			
19	19AK1A05B1	NARESH KUMAR K	-	PATTERN HISTOGRAM		
20	19AK1A05A5	MOUNISHA B			Ms. T. Ramya Sr	
21	19AK1A0582	LAVANYA A	-	WEB BASED		
22	19AK1A0596	MALLESWARI K	22	AGRICULTURE		
23	20AK5A0505	T.MOUNIKA	-			
24	19AK1A05B0	NANDINI L				
25	19AK1A05C6	RAJESH A	-	CURRENT LOCATION	Me Divya	
26	19AK1A05B5	PAVAN KUMAR YADAV B	23	AND WEATHER	WIS. DIVYA	
27	19AK1A0584	LAVANYA R	-			
28	19AK1A05A2	MOHAN C R				
29	19AK1A0595	MAITHILY S P	-	ANDROID ACCIDENT	0.0222454 56 44	
30	20AK5A0502	K. ANITHA	24	DETECTION &	Ms. K.Kaniska	
31	19AK1A05C5	RAJASHEKAR P		ALERT SYSTEM		
32	19AK1A05A7	MUNIPAVAN P				
33	19AK1A05A4	MOUNIKA G				
4	19AK1A0589	LIKHITHA P	25	UTILITY APP	Ms. Susmitha	
	204 K 540508	P S MANOJ	23			
<u>,,,</u>	LOAK LAOSDO	PRAVEEN KUMAR T	1			

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	3	7 19AK1A0574	KALAVATHI Y		7	
	3	8 19AK1A0590	LIKITHA K	-	CYBER BULLYING	Mr. N. Venkata Vinod
	3	9 19AK1A0571	JAYA KUMAR D S S S S	- 26	DETECTION	Kumar
	4	0 19AK1A0599	MANOJ KUMAR P	-		
	4	1 19AK1A0591	MADHURI K			
	4	2 19AK1A0577	KEERTHANA M	-	ONLINE BLOOD BANK	Mr. B. Sunil Kumar
	4.	3 19AK1A05C1	PRUTHVINATH REDDY P	27	MANAGEMENT SYSTEM	
	4.	4 20AK5A0507	P.PRATHAP	1 _		
	4	5 19AK1A0579	LAKSHMI PRIYA G			
	46	5 20AK5A0509	M.SATISH		ONLINE EXAMINATION	Mr. G. Ramakrishna
	47	19AK1A0594	MAHESH T	28	SYSTEM	Juli G. Luni
	48	20AK5A0510	SHAIK AKBAR	1		
	49	19AK1A0585	LAYA K			
	50	19AK1A0578	KOTESWARA P	1	EDUCATIONAL	Mr. T. Sreenivasula
	51	20AK5A0506	Y.PAVAN KALYAN	29	TRACKER	Reddy
	52	19AK1A0570	JAYA KRISHNA M	1		
	53	19AK1A05A1	MEGHANA R			
	54	20AK5A0503	B ANJALI	1	FAKE NEWS	Ms. M. Reddi
	55	20AK5A0504	P.BALA CHANDAR	30	DETECTION	Durgasree
ALC: NOT THE OWNER OF	56	19AK1A05B3	PAVAN KUMAR B			
	57	19AK1A0569 J	AHNAVI P			
	58	19AK1A05A8	AGA LAKSHMI G			
I	59	19AK1A05B2	IKHIL SAITEJA V	31	CREDIT CARD FRAUD	Mr. S. Revanth Babu
I	60	19AK1A05A9 N	AGA SAI KRISHNA REDDY M		DETECTION	
	61	19AK1A05C3 PI	UNITH P			
*	62	19AK1A0597 M	ANIKANTA K			
	63	19AK1A05C8 SH	IAIK MAHAMMAD ASHFAQ			
	64	19AK1A0598 M	ANOGNA N	32	DESTINATION ALARM	Mr. N. Venkatramana
	65	19AK1A05C0 PR	IYANKA D	199	STOLEW	
	66	19AK1A05C4 PU	RUSHOTHAM P		Ø	
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C.N	D POLL NO		Soc	ially Revant Project - II BA	TCH 19 2021-2022
51	KOLL NO	STUDENT NAME	Team No	Project Title	Guide Name
1	19AK1A05E9	SAMHARSHINI N V R			
2	19AK1A05E0	SAI KUMAR P	33	TRAFFIC AL FRT	Dr. N. Badrinath
3	19AK1A05G7	SUCHARITHA N	00	TRAFFIC ALERT	Dr. N. Data
4	19AK1A05D1	DEEPIKA K			
5	5 19AK1A05D2	MOHAMMAD YASEEN V			
6	5 19AK1A05F5	SHAIK SADHIK	34	SPELL CORRECTION	Dr. Shaik Jumlesha
7	7 19AK1A05D8	SAI GNAPIKA V		TYPHLOTIC PEOPLE	DI. Shan C
8	3 19AK1A05J0	YASWANTH N			
9	9 19AK1A05H3	TEJASWEE P			
10	0 19AK1A05H4	TEJASWINI A	35	APOTHECARY	Dr.S. Athinaravanan
1	1 19AK1A05H8	THULASI REDDY P		SYSTEM	DI.S. Atimia ayanan
12	2 19AK1A05F6	SHAIK SAYYED BASHA			
13	3 19AK1A05F0	SANDHYA G			
14	4 19AK1A05F4	SASIKALA V	36	AUTOMATIC FACE	Mr. T. Sai Kishore
15	5 19AK1A05D7	REDDY PRASANNA K		MASK RECOGNITION	MI. 1. 641 (1997)
10	5 19AK1A05E5	SAI SUSHMITHA D			
17	7 19AK1A05I4	VENKATESH A		INSURANCE CLAIM	
18	19AK1A05I5	VINUTHA M	37	PREDICTION	Mr. T. Sai Kumar
19	19AK1A05C9	AMUDALA MUNIPRIYA		USING MACHINE	MIT I ON FLOW
20	19AK1A05E4	SAI SAHITHI P			
21	19AK1A05D3	RAJITHA REDDY T			
22	19AK1A05H6	THARUN KUMAR B	38	SOCIAL DISTANCING	Mr. M. Kiran Moni
23	19AK1A05G8	SUDHARSHAN REDDY L		ALARM	Mit. M. Kiran Mon
24	19AK1A0516	/ISHNUCHANDANRAO K			
25	19AK1A05D4 R	AMYA V			
26	19AK1A05H5 T	EJASWINI D	39	FARMMART	Ma O Sabitua
27	19AK1A05D6 R	AVI PRAKASH M			wis. O. Saintya
28	19AK1A05J1 Y	ASWANTH SAI V			
20	19AK1A05F3 SA	ASIDHAR P	42.5		
30	19AK1A05F9 SH	НОВНА Р	40	ELECTRICITY PRICE	
21	194K140517 V	YSHNAVI G		FORCASTING	Ms. D. Dhanya
22	194K1A05E3 SA	AI PRAVEEN KUMAR			
13	194K1405F7 SH	IAIK SUHAIL			
4	19AK1A05H2 SW	VETHA G	41	DONATION	
	194K140514 VI	JVATEJA A	41	MANAGEMENT SYSTFM	Ms. P. Anusha
-	104K140510 VA	SWANTH K			

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			Social	ly Revant Project - II BATCI	1 19AK 2021-2022
S NO	ROLL NO	STUDENT NAME	Team No	Project Title	Guide Name
1	19AK1A0572	JAYASREE K	_		
2	19AK1A0588	LIKHITHA D	17	CONSIGNING INFO	Dr. N. Badrinath
3	19AK1A05B4	PAVAN KUMAR C			Diffe
4	19AK1A0587	LEELADHAR S			
5	19AK1A05A3	MOUNIKA D	_		
6	19AK1A05B9	PREMA LATHA E	18	VEHICLE BUSINESS	Dr. Shaik Jumlesha
7	19AK1A0576	KAVYA D	_	SYSTEM	
8	19AK1A05B6	PAVAN SAI REDDY E			
9	19AK1A0593	MADHUSUJAN G	-		
10	19AK1A0583	LAVANYA N	- 19	AIRLINE MANAGEMENT	Dr.S. Athinarayanan
11	19AK1A0575	KAVERI T	-	SYSTEM	
12	19AK1A0581	LARIFA A			
13	19AK1A05C2	PUJITHA J	_		
14	20AK5A0511	SHAIK FIRDOSH	20	STAY FIT	Ms. L. Charitha
15	20AK5A0501	R ALEKYA	_		
16	19AK1A05A6	MUNI TEJA E			
17	19AK1A0592	MADHUSREE B	_	ATTENDANCE	
18	19AK1A05A0	MEGHANA G	21	MANAGMENT SYSTEM	Ms. H. Teja
19	19AK1A05B1	NARESH KUMAR K	-	PATTERN HISTOGRAM	
20	19AK1A05A5	MOUNISHA B			
21	19AK1A0582	LAVANYA A	_		
22	19AK1A0596	MALLESWARI K	22	AGRICULTURE	Ms. T. Ramya Sri
23	20AK5A0505	T.MOUNIKA		INFORMATION SYSTEM	
24	19AK1A05B0	NANDINI L			
25	19AK1A05C6	RAJESH A	-		
26	19AK1A05B5	PAVAN KUMAR YADAV B	23	AND WEATHER	Ms. Divya
27	19AK1A0584	LAVANYA R	-	FINDING APPLICATION	
28	19AK1A05A2	MOHAN C R			
29	19AK1A0595	MAITHILY S P			
30	20AK5A0502	K. ANITHA	24	DETECTION &	Ms. K.Kaniska
31	19AK1A05C5	RAJASHEKAR P	1.	ALERT SYSTEM	
32	19AK1A05A7	MUNIPAVAN P			
33	19AK1A05A4	MOUNIKA G	_		
34	19AK1A0589	LIKHITHA P	25	UTILITY APP	Ms. Susmitha
35	20AK5A0508	P S MANOJ			
36	19AK1A05B8	PRAVEEN KUMAR T			

HEAD Dept. of Computer Science & Engy Annamacnarya Institute of Incloary & Sciences, Tirupati-5

				-		
37	19AK1A0510	VARUN KUMAR P S V S K				
38	19AK1A05G9	SUMATHI K		PARKING ALOT	Ms. L. Charitha	
39	19AK1A05E2	SAI PRASANNA N	42	SYSTEM		
40	19AK1A05J3	YUGANDHAR NAIK J				
41	19AK1A05H1	SUSHMA N				
42	19AK1A05E7	SAI VINEELA REDDY T	43	VILLAGE PROSPERITY	Ms. H. Teja	
43	19AK1A05G0	SIREESHA N P		SYSTEM		
44	19AK1A0512	VENKATA THARUN M				
45	19AK1A05F2	SASI KUMAR N				
46	19AK1A05H0	SUPRIYANKA V V	44	MANAGEMENT	Ms. T. Ramya Sri	
47	19AK1A05I1	VENKATA RAJU K		SYSTEM		
48	19AK1A05G6	SREENIVAS REDDY G				
49	19AK1A05G4	SRAVANI P				
50	19AK1A05I8	YASASWINI DURGA V	45	E - PLASTIC MANAGEMENT	Ms. Divya	
51	19AK1A05D9	SAI KRUPA U		SYSTEM		
52	19AK1A05D5	RANI K				
53	19AK1A05H7	THARUN KUMAR L				
54	19AK1A05E6	SAI VIKAS S	46	SETUP OUR WOMEN	Ms. K.Kaniska	
55	19AK1A05D0	AMULYA REDDY N	1000	SAFETY		
56	19AK1A05E1	SAI KUMAR V				
57	19AK1A05G1	SIVA SAI P				
58	19AK1A05E8	SAKUNTHALA A	47	HOUSE PRICE	Ms. Susmitha	
59	19AK1A05J2	YOSHITHA K		PREDICTION		
60	18AK1A05B8	SASI SAI KIRAN B				
61	19AK1A05F8	SHAIK SUMERA				
62	19AK1A05G2	SNEHA A	10	ACADEMIC UP	Mr. N. Venkata Vinod	
63	19AK1A05H9	UDAY KIRAN P	40	LIFTMENT	Kumar	
64	18AK1A05C8	SRINIVAS A				

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Dept. of Computer Science & Enge. Annamacnarya Institute of thrology & Sciences. Tinupati-51

1			1.3.4 - 0	SE FIR -1	
	Socially Re	levant Project - III Batch List for II	I year II semester (AY-20	SRP-TT.	
			LDATCH 19 (2022-202	3)	
	SO	CIALLY RELEVANT PROJECT - II	BAICH - 15 (2022 20-	NAME OF THE	
S NO	ROLL NO	STUDENT NAME	PROJECT TITLE	GUIDE	
1	19AK1A0553	HARSHITHA CHOWDHARY N	E-mars assistance		
2	19AK1A0564	Y. JAHNAVI	Farmers assistance	H. TEJA	
3	19AK1A0526	CHARAN BABU M	WED SCIVICCO		
4	19AK1A0539	DIVYA M			
5	19AK1A0508	AMULYA P		DE K NAVAZ	
6	19AK1A0532	DEEPTHI M	AITS BusTracker	Dr. N. NAVAZ	
7	19AK1A0520	BHUMIKA K			
8	19AK1A0525	CHANDRU M			
9	19AK1A0554	HASITHA V			
10	19AK1A0530	CHILIMI CHINNA BABJI SAHEB	Text Translator API	M. KIRAN WON	
11	19AK1A0511	ANUPA K N			
12	19AK1A0563	JAGADISH K			
13	19AK1A0518	BHARGAVIS			
1	19AK1A0502	ABDUL NOWREEN	Rural health scheme	K. DIVIA	
15	19AK1A0501	GAZI MOHAMMAD MEESAM	-		
16	19AK1A0510	ANIL V			
17	19AK1A0561	JAGADEESH REDDY J	Village Administration	T CALKISHORE	
18	19AK1A0545	GOWTHAMI M	System	1. SALKISHORE	
19	9 19AK1A0534	DHALMIKA SATAKARNI P			
20) 19AK1A0533				
. 21	1 19AK1A0566	JAYAKUWAR REDUT		M. LAKSHMI	
22	2 19AK1A0540		- Virtual Air Painting	PREETHI	
23	3 19AK1A0538	DIVAKAR REDUT F	-		
24	1 19AK1A0517	BHARGAVA			
25	5 19AK1A0567			C KANISHKA	
26	3 19AK1A0514	ASHISH S	- Smart City	G. KANIOHIVA	
27	7 19AK1A0523		1		
28	3 19AK1A0549				
	19AK1A0520		Offense Informing		
30	194K 140500		Form	E. OF WARTEN	
31	19AK1A0568	SHAIK AYESHA			
32	19AK 1A0500	BINDU SREE C			
33	100K100559	HEMASREE C	Data structures	M. REDDI	
34	100K10054	GOWTHAM G	Visualization	DURGASREE	
35	100K100544				
36	10AK1A0550	HARISHITHA K			
37	10AK1A0507	A LAY KLIMAR S	Virtual Mauroa	K SUSMITHA	
38	100K10007				
39	19AK 1A0509				
40	100K100513				
41	19AK 1A0512		Hotlier Management	N. VENKAT	
42	19AK 1A0519		System	RAMANA	
43	19AK1A0536				
44	1 19AK1A054/	INANEER G			

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Dept. of Computer Science & Engr Annamacnarya Institute of thnology & Sciences, Tirupati-5



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45	19AK1A0557	HEMANTH KUMAR P		
46	19AK1A0504	ABHISHEK K	AIR CANVAS	M. KIRAN MONI
47	19AK1A0548	HARI KRISHNA A		
48	19AK1A0541	GANGA REDDY P		
49	19AK1A0537	DINISRI P		
50	19AK1A0551	HARSHINI K	Applicant Tracking	D. DHANYA
51	19AK1A0555	HEMA SAI M	System	
52	19AK1A0562	JAGADEESWARI K		
53	19AK1A0559	INDRAJA C		
54	19AK1A0503	ABHINAYA SATYA M	Offling Mong	P ANUSHA
55	19AK1A0529	CHENNAKESAVA REDDY S		1.741001.01
56	19AK1A0560	JAGADEESH M V S		
57	19AK1A0522	CHAITANYA M		
58	19AK1A0556	HEMACHANDRA K	Real Time Image	
59	19AK1A0565	JAYABHARATHI S	Recognition	D. RAWAWA NEDDI
60	19AK1A0546	GUNA SEKHAR B		
61	19AK1A0505	ADHIVISHNU G		
62	19AK1A0531	DEEPAK SAI N		
63	19AK1A0535	DHANUSH A	- Road lane Line	P. CHARISHMA
64	19AK1A0527	CHENCHU LAKSHMI A	Detection	
65	19AK1A0516	BHARATH A		
66	19AK1A0572	JAYASREE K		
67	19AK1A0588	LIKHITHA D		
68	19AK1A05B4	PAVAN KUMAR C	- VVebsite Hindrance	B. SUNIL KUMAR
69	19AK1A0587	LEELADHAR S	7	
70	19AK1A05A3	MOUNIKA D		
71	19AK1A05B9	PREMA LATHA E	Canteen Queue	
72	19AK1A0576	KAVYA D	Avoidance System	R. SUSIVITTA
73	19AK1A05B6	PAVAN SAI REDDY E		
74	19AK1A0593	MADHUSUJAN G		
75	19AK1A0583	LAVANYA N	E mail snam detection	T. SREENIVASULA
76	19AK1A0575	KAVERI T	- L-IIIali spain delection	REDDY
77	19AK1A0581	LARIFA A		
78	19AK1A05C2	PUJITHA J		
79	20AK5A0511	SHAIK FIRDOSH	Property Assistance	M. LAKSHM
80	20AK5A0501	R ALEKYA	System	PREETHI
81	19AK1A05A6	MUNI TEJA E		
82	19AK1A0592	MADHUSREE B		
83	19AK1A05A0	MEGHANA G	Rental House	
84	19AK1A05B1	NARESH KUMAR K	Managment System	
85	19AK1A05A5	MOUNISHA B		
86	19AK1A0582	LAVANYA A		N Noukata
87	19AK1A0596	MALLESWARI K	Medi Record	NEW FAGULTY II
88	20AK5A0505	T.MOUNIKA		[akila?
89	19AK1A05B0	NANDINI L		Lawyswite .
90	19AK1A05C6	RAJESH A		
91	19AK1A05B5	PAVAN KUMAR YADAV B	Real time human	H. TEJA
92	19AK1A0584	LAVANYA R	identication	
93	19AK1A05A2	MOHAN C R		
94	19AK1A0595	MAITHILY S P	HEAD	l

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95	20AK5A0502	K. ANITHA	Grievance Handling	M. REDDI
96	19AK1A05C5	RAJASHEKAR P	System	DUNUAUNEL
97	19AK1A05A7	MUNIPAVAN P		
98	19AK1A05A4	MOUNIKA G	Diabates prediction	N VENKAT
99	19AK1A0589	LIKHITHA P	Diabetes prediction	RAMANA
100	20AK5A0508	P S MANOJ	System	
101	19AK1A05B8	PRAVEEN KUMAR T		
102	19AK1A0574	KALAVATHI Y	System Ouery	
103	19AK1A0590		Management System	B. SUNIL KUMAR
104	19AK1A0571	JAYA KUMAR D S S S S	Managerinet System	
105	19AK1A0599	MANOJ KUMAR P		
106	19AK1A0591	MADHURIK		S SUNDARA
107	19AK1A0577	KEERTHANA M	Online medical store	PANDYAN
108	19AK1A05C1	PRUTHVINATH REDDY P		17.002.77.07
109	20AK5A0507	P.PRATHAP		
110	19AK1A0579	LAKSHMI PRIYA G	Home Service	
111	20AK5A0509	M.SATISH	Providing Through	T. SAI KISHORE
112	19AK1A0594	MAHESH	Website	
113	20AK5A0510	SHAIK AKBAR		
4	19AK1A0585	LAYAK	Time Table	
115	19AK1A0578	KOTESWARA P		d. Dhanya
116	20AK5A0506		Automation	
117	19AK1A0570		Nevinator Decod on	
118	19AK1A05A1	MEGHANA R	Navigator Based on	
119	20AK5A0503	BANJALI		L. CHARITHA
120	20AK5A0504	P.BALA CHANDAR	GPS for Visually	
121	19AK1A05B3		Impaired People(IUS	
122	19AK1A0569		Sign Jonguaga	
123	19AK1A05A8		Sign language	T. RAMYASRI
124	19AK1A05B2	NIKHIL SATTEJA V	translator	
125	19AK1A05A9	NAGA SAI KRISHNA REDDY M		
126	19AK1A0597	MANIKANTAK	-	
127	19AK1A05C8	SHAIK MAHAMIMAD ASHFAQ	Awesome Landing	
128	19AK1A0598		Web page	J. SIVARANI
129	19AK1A05C0			
60	19AK1A05C4			
131	19AK1A05E9	SAMHARSHININVR	-	
132	19AK1A05E0		E-Donation	M. KIRAN MONI
133	19AK1A05G7	SUCHARITHA N	-	
134	19AK1A05D1			
135	19AK1A05D2	MOHAMMAD YASEEN V	-	
136	19AK1A05F5	SHAIK SADHIK	Agrarian System	
137	19AK1A05D8	SAI GNAPIKA V	- igranan oystern	
138	19AK1A05J0	YASWANTH N		
139	19AK1A05H3	TEJASWEE P		
140	19AK1A05H4	TEJASWINI A	Blood Denar Den	
141	19AK1A05H8	THULASI REDDY P	Diood Donor Service	K. DIVYA
142	19AK1A05F6	SHAIK SAYYED BASHA		
143	19AK1A05F0	SANDHYA G		
144	19AK1A05F4	SASIKALAV	Academic	
145	19AK1A05D7	REDDY PRASANNA K	Performance	G. KANISHKA
146	19AK1A05E5	SALSUSHMITHA D	Prediction	

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147	19AK1A05I4	VENKATESH A		N. Venkata
148	19AK1A05I5	VINUTHA M	Spam Detection using	
149	19AK1A05C9	AMUDALA MUNIPRIYA	Machine learning	Lakshmi
150	19AK1A05E4	SAI SAHITHI P		
151	19AK1A05D3	RAJITHA REDDY T		
152	19AK1A05H6	THARUN KUMAR B	Prevention of Security	I SIVARANI
153	19AK1A05G8	SUDHARSHAN REDDY L	Attacks	
154	19AK1A05I6	VISHNUCHANDANRAO K		
155	19AK1A05D4	RAMYA V	Home&Eunctions	
156	19AK1A05H5	TEJASWINI D	Food waste	Dr. S. ATHI
157	19AK1A05D6	RAVI PRAKASH M	Management System	NARAYANAN
158	19AK1A05J1	YASWANTH SAI V	Management oystem	
159	19AK1A05F3	SASIDHAR P		
160	19AK1A05F9	SHOBHA P	Detecting Malicious	
161	19AK1A05I7	VYSHNAVI G		L. CHARITHA
		SAI PRAVEEN KUMAR REDDY		
162	19AK1A05E3	К		
163	19AK1A05F7	SHAIK SUHAIL		
164	19AK1A05H2	SWETHA G	Face Recognition in E-	Dr. S. JUMIESHA
165	19AK1A05J4	YUVATEJA A	attendance	
166	19AK1A05I9	YASWANTH K		•
167	19AK1A05I0	VARUN KUMAR P S V S K	Eako Nows Detection	
168	19AK1A05G9	SUMATHI K	Fake News Delection	T RAMYASRI
169	19AK1A05E2	SAI PRASANNA N		
170	19AK1A05J3	YUGANDHAR NAIK J	Learning	
171	19AK1A05H1	SUSHMA N		
172	19AK1A05E7	SAI VINEELA REDDY T	Farming Aided	D ANUSHA
173	19AK1A05G0	SIREESHA N P	Android App	F. ANUSHA
174	19AK1A05I2	VENKATA THARUN M		
175	19AK1A05F2	SASI KUMAR N		
176	19AK1A05H0	SUPRIYANKA V V	Online Grocery	T DAMVA SPI
177	19AK1A05I1	VENKATA RAJU K	Management System	
178	19AK1A05G6	SREENIVAS REDDY G		
179	19AK1A05G4	SRAVANI P		- 0 0
180	19AK1A05I8	YASASWINI DURGA V	Flight Management	J. Chandra
181	19AK1A05D9	SAI KRUPA U	System	
182	19AK1A05D5	RANI K		babu
183	19AK1A05H7	THARUN KUMAR L		
184	19AK1A05E6	SAI VIKAS S	Boarding House	
185	19AK1A05D0	AMULYA REDDY N	System	F. CHARISHIMA
186	19AK1A05E1	SAI KUMAR V		
187	19AK1A05G1	SIVA SAI P		
188	19AK1A05E8	SAKUNTHALA A	Tourism management	S. SUNDARA
189	19AK1A05J2	YOSHITHA K	system	PANDYAN
190	18AK1A05B8	SASI SAI KIRAN B		
191	19AK1A05F8	SHAIK SUMERA		
192	19AK1A05G2	SNEHA A	Online Birth Certificate	N. VENKAT
193	19AK1A05H9	UDAY KIRAN P	Registration	RAMANA
194	18AK1A0563	KARTHIK K		

Dept. of Computer Science a Engy Annamacnarya Institute of Annology & Sciences, Tirupati-5

EDUCATIONAL PERFORMANCE TRACKER

A Socially Relevant Project Report Submitted to

Jawaharlal Nehru Technological University-A, Anantapur

In partial fulfilment of the requirements For the award of the degree of

BACHELOR OF TECHNOLOGY

F

In

COMPUTER SCIENCE AND ENGINEERING

By <u>Project Batch – 29</u>

Laya K - 19AK1A0585

Koteswara P -19AK1A0578

Pavan Kalyan Y -20AK5A0506

Jaya Krishna M -19AK1A0570

GUIDED BY

Asst Prof. T. Sreenivasula Reddy M.Tech., (PhD).,



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES::TIRUPATI (AUTONOMOUS)

Venkatapuram(V), Karakambadi(Po), Renigunta(M), Tirupati-517520, A.P. 2019-2023



Dept. of Computer Science a Engg. Annamacnarya Institute of Innology & Sciences, Tirupati-51

INDUSTRIAL VISIT



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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES DEPARTMENT OF COMPUTER SCIENCE& ENGINEERING Accredited by NBA,NAAC& IEI

e-mail:aitscse.tpt@gmail.com Ph: 0877 - 2285608/9website: aits-tpt.edu.in

INDUSTRIAL VISIT

Summary Sheet

S.No	Date	Place of Visit	No.of.Participates
1	20/05/2022	National Atmospheric Research	50 Students +
		Laboratory(NARL)	5 Staff
2	20/05/2022	Chandragiri Fort	50 Students
			5 Staff

B. Rounded

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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES DEPARTMENT OF COMPUTER SCIENCE& ENGINEERING Accredited by NBA,NAAC& IEI e-mail:<u>aitscse.tpt@gmail.com</u> Ph: 0877 – 2285608/9<u>website</u>: aits-tpt.edu.in

INDUSTRIAL VISIT REPORT

A complete report on industrial visit organized by AnnamacharyaInstitute of Technology and Sciences, for the students of Computer Science Engineering [IInd year] in order to get the practical knowledge about the working of the servers at National Atmospheric Research Laboratory(NARL) Data centers.



Dept. of Computer Science & Engl Annamacharya Institute of Innology & Sciences, Tirupati-5)

INDEX:

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- DETAILS OF JOURNEY
- RESEARCH LABORATORY PROFILE
- GROUP OBSERVATION
- CONCLUSION

Dept. of Computer Science & Eligs Annamacharya Institute af Annology & Sciences, Tirupati-Si

DETAILS OF JOURNEY

Annamacharya Institute of Technology and Scienceshad organized an industrial visit on 20th May, 2022 to NARL located in Gadanki, Andhra Pradesh for the students of Computer Science Engineering.

The visit was organized by Mr.B.Ramana Reddy, the HOD of Computer ScienceEngineering. Dr.S.Jumlesh & P.Charishma were the faculty co-ordinators accompanied by the faculty members M. Lakshmi Preethi, K. Divya &G. Kanishka for the industrial visit.

We started travelling from the college campus at 09:50 am in our college bus. Totally 50 students along with 5 faculty members were there in the journey.

> Dept. of Computer Science a Engg. Annamacnarya Institute of Annology & Sciences, Tirupati-5)

RESEARCH LABORATORY PROFILE

0

The National Atmospheric Research Laboratory(NARL) is an autonomous Research Institute funded by the Department of Space of the Government Of India. NARL is engaged in fundamental and applied research in the field of Atmospheric Sciences.

The research Institute was started in 1992 as National Mesosphere-Stratosphere- Troposphere (MST) Radar Facility(NMRF).

Overthe years many complementarytechniques such as Mie/ Rayleigh Lidars, lower atmospheric wind profiler, Sodar, OpticalRain Gauge, disdrometer, automated weather stations etc were added.

The NMRF was then expanded into research institute and renamed as National Atmospheric Research Laboratory on 22 September 2005

Being relatively young, NARL's research activities are spearheaded by a team of young and vibrant fulltime research scientists and students.

Annamacnarya Institute of Michael Sciences, Tirupati-51



ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

AUTONOMOUS

Venkatapuram(V), Karakambadi(P), Renigunta(M), Tirupati- 517520, Chittoor(D), A.P.

14/03/2022

This is to inform all the ME Faculty that the Collaborative Learning Activities have been proposed to conduct on EVERY FRIDAY to improve the quality of our students. Hence, the following staff members are requested to conduct Collaborative Learning Activities without fail.

S.No	Date	Subject	Faculty name
1	25/3/22	нт	M.SRUTHI
2	1/4/22	DMM-II	S.LAKSHMI
3	8/4/22	TE-II	N.BALAJI GANESH
4	22/4/22	INTRODUCTION	K.RAJASEKHAR
5	13/5/22	ML	S.JUMLESHA
6	20/5/22	PEPS	D.BHARATHI
7	27/5/22	PEHV	S.SWAPNA
8	3/6/22	нт	M.SRUTHI
9	10/6/22	DMM-II	S.LAKSHMI
10	17/6/22	TE-II	N.BALAJI GANESH
11	24/6/22	INTRODUCTION	K.RAJASEKHAR
12	30/6/22	ML	S.JUMLESHA

Subject F

CLC Coordinator

Signature of HOD

HEAD

DEPT, OF MECHANICAL ENGO ATS., TIRUPATI - 517 520



ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS) TIRUPATI -517520

10/06/2022,

From

S. Lakshmi, Assitant Professor, Dept. of ME, AITS Tirupati

То

The Head of the Department, Department of ME, AITS Tirupati

Madam/Sir,

SUB: CLC Session was not conducted -- explanation -- regarding.

Collaborative Learning Class (CLC) was not conducted on 10th June, 2022, i.e., 4th Period of Friday, as because of syllabus incompletion for second mid. The same is intimated to the CLC Facilitator and to the Head of the Department.

Thanking you,

Yours Sincerely,

(S.Lakshmi)

Subjec

CLC Coordinator

J.Ba

Signature of HOD HEAD DEPT. OF MECHANICAL ENGC AITS., TIRUPATI - 517 520



ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS) TIRUPATI -517520

Collaborative Learning for III B.Tech -1-04-2022

Department of Mechanical Engineering

Methodology: Think-pair-share



DEPT. OF MECHANICAL ENGL AITS., TIRUPATI - 517 520



ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS) TIRUPATI -517520



Methodology: Think-pair-share

collaborative learning in the class room

Subject Faculty

CLC Coordinator

'n

Signature of HOD HEAD DEPT. OF MECHANICAL ENGC AITS., TIRUPATI - 617 520
CLC 1 4 2022 N-Norasimho (2014520321 R. povon kurnor (201×510324 k.sathish (201k5A033) Batch Number -01 ACrane hook has a tropezoidal section of sides gom. 1) and depth of 116mm with on enner rodius and of Curvoture 65 mm determine the moximum stress developed in the hook by lifting the lood 90 km ar i:Pe VF=90KN Given data! inner radious of controid axis (Rt) = 65mm h=116; Ro) = Roth = 65+116 10:30 (Ro)= 181 mm . 60=21. 90 WN = 90×10 N 90 = 95 mm



$$= \frac{1}{2} \sum_{i=1}^{N} \sum_{i=$$

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$$0_{151} = \frac{10 \cdot 8 \times 10^{12}}{1 \cdot 6 \cdot R_{1}^{2}}$$

$$= \frac{10 \cdot 08 \times 10^{16} \times 5 \cdot 8 \cdot 41^{12}}{86 \cdot 30 \times 8 \cdot 61 \times 65}$$

$$= 10 \cdot 3 \cdot 30 \cdot 11 \left[\text{mm}^{-1} \right]$$

$$= \frac{10 \cdot 08 \times 10^{16} \times 33 \cdot 55}{66 \cdot 30 \times 8 \cdot 62 \times 181}$$

$$= \frac{10 \cdot 08 \times 10^{16} \times 33 \cdot 55}{66 \cdot 30 \times 8 \cdot 62 \times 181}$$

$$= \frac{10 \cdot 08 \times 10^{16} \times 33 \cdot 50}{1 \cdot 66 \cdot 30 \times 8 \cdot 62 \times 181}$$

$$= 13 \cdot 41 + 103 \cdot 30$$

$$= 113 \cdot 19 \cdot 19 \cdot 11 \text{ mm}^{-1}$$

$$\Rightarrow \sigma_{R_{0}} = \nabla_{R_{0}} - \nabla_{R_{0}}$$

$$= \frac{10 \cdot 13 \cdot 49}{1 \cdot 10^{16}}$$

$$= 61 \cdot 62 \cdot 11 \text{ mm}^{-1}$$

$$= 61 \cdot 62 \cdot 11 \text{ mm}^{-1}$$

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES, TIRUPATI (AUTONOMOUS) Department of Mechanical Engineering

Socially Relevant Projects (19APR0301)

S.No.	Name of the Student	Title of the Project	Mentor
1	ABHIRAM S	AUTOMOBILE ACCIDENTS	SRI.P.C.PRAKASH
2.	AKHILESH VARMA K	CONTROL SENSOR SYSTEM	
3.	ARUNDEEP K		
4.	BADRINATH K		
5	BADRINATH N	FABRICATION OF	SRI.K.RAJASEKHAR
6	BHARATH M	REVOLVING HYDRAULIC	
7	BOSE P	SCISSOR LIFT	
8	DARSHAN M SOLAR BI-CYCLE		SRI.M.BALAJI
9	DILLI PRASAD P		
10	GNANA PRASAD A		
11.	GOUTHAM P M V S		
12	HARSHA VARDHAN M	MINI SOLAR POWERED CAR	SRI.S.NISHANTHI
13	HEMASAIR		
14	SHIVANANDA Y		
16			
17	JAYANTH SALVARIVA D	EXPLORATION DRONE	SIVIT.S.PRAVEEINA
18			
19.	SAGAR		
	MADHAN P		
20	MANOHARACHARI B	MANUAL ROAD CLEANING	SRI.S.SIVASANKAR
21	NIKHIL VARMA S		
22	POORNA CHANDRA		
23	SESHA SAI P		
	RAVINDRA R		
24	SAI MEENESH REDDY A	GENERATION OF ELECTRICITY	SIMIT.P.INDRAPRASTA
25	SAI SANKAR G	FLECTRICAL GENERATION	3
20	SHAIK JABIVULLA	ELECTRICAL GENERATION	
27	SIVA KUMAR Y		
28	SNEHA K	GENERATION OF	SRI.K.KUMAR
29	SRAVANTH K	ELECTRICITY USING	
30	VEERAPURNA ESWARA	FLECTRICAL GENERATION	
31	SAI P	ELECTRONE GENERATION	
	VENKAT HEMANTH P R		
32	VIJAYSANKAR G	ZERO TUKN VEHICLE	SKI.C.JAYSHYAM
33	YOGA BALAJI S		
34	YUVARAJU REDDY S		

Mr. M Balaji Head of the Department, MED, AITS, Tirupati HEAD DEPT. OF MECHANICAL ENGC A'TS., TIRUPATI - 517 520

S.No.	Name of the Student	Title of the Project	Mentor
1	ABILASH C	AGRICULTURE	SMT. M. SRUTHI
2.	AJITH KUMAR I	PESTISIDE SPRAYING	0
3.	ASHOK GOUD F	DRONE	
4.	BHANLIPRAKASHMS		
	Share Fredering 3		
5	BHARATHP	SILENT AIR PUBLEIER	SRICJAYASHYAM
6	CHAITHANYAC	AND HUMIDIFIER	
7	CHAITHANYAT	USING WATER FILTER	
8	CHAMANTHP		
9	DHANINIAYAV	PEDDLE OPERATED	SRIMBALAII
10	DINESHI	GRAIN MILL AND	SIG.M.BALADI
11	GNANESH S	POWERED GENERATOR	
12	GOWTHAM KUMAR		
13	JAYASIMHA REDDY B	AUTOMATIC	SMT S NISHANTHI
14	LOKESHL	RAILWAY GATE	
15	MADHUSUDHAN P	CONTROLLER	
16	MANIKANTA K		
17	MANJUNATH G	RFID BASED SECURE	SMT.S.PRAVEENA
18	MANOJ KUMAR K	SMART SCHOOL BUS	
19	NANDAVARDHAN T	SYSTEM	
20	NARASIMHA N		
21	NARENDRA C	STEAM INHALATION	SRI.K.KUMAR
22	NARENDRA K	UNIT TO INCREASE	
23	PAVAN KUMAR R	OXYGEN AND STEAM	
24	PRUDHVI B	APPLICATIONS	
25	PURUSHOTHAM P	ADVANE STAIR	SRISSIVASANKAR
26	RANJITH B	CLIMBLING TROLEY	SILLO.SIV ASAINKAN
27	SAI GANESH N		
28	SAI SASANK U		
- 20			
29	SAIGANESH K	POWER GENERATION BY	SRI.P.C.PRAKASH
31	SANDEEP C	WIND TUPPINE	
32	SASIU	WIND TORBINE	
22	SATHISH K		
33	SHASHANK A	SOLAR OUTDOOR	SRI K.RAJASEKHAR
35	SUBRAMANYAM ARAVIND P	MOTION LIGHT	
36	SUNIL M		
	VASU K		
37	VENKATA HARISH K	DESIGN OF HORZONTIAL	SMT.S.LAKSHMI
38	VIJAY KUMAR A	AXIS WIND TURBINE	
40	VIJEYUDU B		
41	VINAY G		
	VISHNU VARDHAN KUMAR P		

-

M.Bel Ň

Mr. M Balaji Head of the Department, MED, HEAD^{AITS}, Tirupati DEPT. OF MECHANICAL ENGC A'TS., TIRUPATI - 517 520

<u>Collaborative Learning for II B.Tech (A-section)-09-01-2023</u> <u>Department of Civil Engineering</u> <u>Name of Activity: Group Disscussion</u> <u>Topic:</u> Properties of fluids

Physical Properties of Fluids

Density

Viscosity

Specific Volume

Surface Tension

Specific Weight

Pressure

- Specific Gravity
- Buoyancy

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Compressibility

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collaborative learning in the class room



collaborative learning in the class room

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Civil Engg. Ipatit517 520

Name: V. Dinest Kumer 21AKIA0102 O Properties of fluids Density of mass density * Density is Defined as the ratio of mass of the fluid to its volume. The mass per unit volume of fluid is called density. It denoted Density Mass of the fluid volume of the fluid by e VOI DAY specific weight specific weight of weight density of third is the ratio blue the weight of a finid to its volome It is denoted by 'w' W - weight of fluid growity vowme of fluid specific volume. specific volume is defined as volume of the fluid occupied by unsit mass of volume per whit mass of fluid is called specific specific volume - volume of fluid volume Mass of their ! specific gravity is defined as the ratio of weight density of a fluid to the weight density of standard fluid opecific gravity: for requires the standard find is taken water & the gases the standard flord is taken all specific gravity is also called specific gravity: weight density of liquid relative density weight density of water

Specific gravitle : weight density of air (19,0°de) weight densiter of gaser specific growity = weight density of our gasee) weight density of galy The top layer caused a strear stress on the adjacent layer while the lower layer causer a shear stress on the adjacent top layer. This shear stress is proportional is the rate of change of velocity with respect to g It is denoted by symbol I called Tau Tady It is defined as the ratio blue the dynamic Miscossity & density of fluid . It is denoted by greek, symbol (1) alled '60' Kinematic visocity The symbol of Kinematic viscolity is my Kipematic & Vizcosity - Density Parcals laws. 1 Pz Sino pz coso TPY It stated the intensity of pressure at a Point in a fivid at rest is some in au no direction 02= 84 = 85 erow to phenob

Newtorian fluid:

A real fluid in which shear stress is directly proportional to the rate of shear strain is known as newtonian fluid

Non newstion fluid: A real fluid in which shear stress is not proportional the rate of shear strain is known at NON newstantian

Kinematic viscority: H is defined at the ratio klub the dynamic Viscosity & density of the floid . It is denoted by the greek symbol called no The mathematically $V = \frac{Viscosity}{Density}$

when a body is immersed in fluid an upward toke is exerted by the fluid on the body This upwoold force is aqual to the weight of 100dy the flood displaced by force of booyance

-AUSONAL PRESSORE: it is preserve measured with reference to absolute vaccum pressure H is independent of changes in Outrooppreve pressure it is meagured about the avequite zero preserve.

Newton's law of viscosity: H states that the shear stress (t) on a H states that the shear stress (t) on a ftwid element layer is alreatly proportional to the rate of shear strain the constant of propo rate of shear strain the constant of propo tionality is called coefficient viscosity.

Field Dreaking
Total Oresume force on Con area of our off

$$e = 1de = 1cqpda$$

 $from figure
 $g = \frac{1}{y^2} = \frac{1}{q} = sing$
 $f = 1cqq sind and
 $f = cqqsind 1yda$
 $f = cqsind 1yda$
 $f = cqqsind 1yda$
 $f =$$$

hydrostatic law: The vasiation of pressure with temp, typologitatic law states that the rate of increase of preserve in the vartically about would direction at a point in a static fruid must be equal to the specific weight of the their DOB. - D C C The folce acting on the fivid element preserve force on -AB=PidA pressure toke on co = ProlA weight of fluid element = w= egu - lg dadz Pressure lorces on surface BC & AD are equal $P_1 dt A + eq dt A dz = P_2 dt A$ $eq dt A dz = P_2 dt A - P_1 dt A$ $eq dz = P_2 - P_1$ E OPPORite 1.0.10.7 Jegaz = Jap e= egz z = P/eg





	SRP PROJECTS 2021-22				
S.No	Student details	Title of Project	Venue (physical mode: Area/virtual mode platform)	Duration	Member
1	19AK1A0135 19AK1A0132 19AK1A0116 19AK1A0142 19AK1A0130	Use of Waste Tyres and rubbers for construction of retaining walls	physical mode	2 weeks	Mrs.T.Jahnavi
2	19AK1A0113 19AK1A0140 19AK1A0124 19AK1A0136 19AK1A0103	Partial Replacement of Fine aggregate in concrete using recycled plastic	physical mode	2 weeks	Dr.J.Guru Jawahar





3	19AK1A0114				
	19AK1A0112				
	19AK1A0126	Use of Plastic waste in Road Construction	physical mode	2 weeks	Mr.A.Anil
	19AK1A0110				
	19AK1A0138				
4	19AK1A0117				
	19AK1A0115				
	19AK1A0108	Ready mix concrete	physical mode	2 weeks	Mrs.D,Nirosha
	19AK1A0122				
	19AK1A0129				
5	19AK1A0146				
	19AK1A0144				
	19AK1A0123				
	19AK1A0118	Under Ground Construction	physical mode	2 weeks	Mr.K.Saiabhinav
	19AK1A0106				





6	19AK1A0109				
	19AK1A0119				
	19AK1A0107	Gyroscopic Transportation	physical mode	2 weeks	Mr.S.Sameer
	19AK1A0121				
	19AK1A0105				
7	19AK1A0143				
	19AK1A0125				
	19AK1A0131	Low Cost Housing	physical mode	2 weeks	Mrs.P.Vishnupriya
	19AK1A0134				
	19AK1A0141				
8	19AK1A0133				
	19AK1A0101				
	19AK1A0127	Production of Eco bricks from			
	19AK1A0104	Industrial waste	physical mode	2 weeks	Mr.P.Dhanabal
	19AK1A0102				





9	19AK1A0111				
	19AK1A0103				
	19AK1A0128	Fire Reinforced Concrete	physical mode	2 weeks	Mr.P.Narendra reddy
	19AK1A0145				Teady
	19AK1A0138				
10	20AK5A0105				
	20AK5A0143				
	20AK5A0122	Recycling and reuse of building waste in construction	physical mode	2 weeks	Mr.ENarasimhilu
	20AK5A0112				
	20AK5A0134				
11	20AK5A0124				
	20AK5A0121				
	20AK5A0138	Effective Utilization of construction		2	D. K. Talasinsisa
	20AK5A0108	and demolition waste in tirupati	physical mode	2 weeks	Dr.K. I ulasirajan
	20AK5A0118				





12	20AK5A0119				
	20AK5A0106				
	20AK5A0109	Green smart building by using waste materials	physical mode	2 weeks	Mr.T.Saikrishna
	20AK5A0139				
	20AK5A0131				
13	20AK5A0140				
	20AK5A0116				
	20AK5A0101	Recycling plastic waste in to HDPC paving tiles	physical mode	2 weeks	Ms.K.S.Sshmitha
	20AK5A0132				
	20AK5A0140				





14	20AK5A0137 20AK5A0148 20AK5A0128 20AK5A0125 20AK5A0141	Irrigation Techniques and tricks	physical mode	2 weeks	Mr.E.Narasimhulu
15	20AK5A0115 20AK5A0114 20AK5A0127 20AK5A0130 20AK5A0135	Partial Replacement of Biomedical waste in Concrete	physical mode	2 weeks	Mr.M.Syamsundar
16	20AK5A0117 20AK5A0107 20AK5A0133 20AK5A0103 20AK5A0129	physical modeling of wind turbine	physical mode	2 weeks	Mr.A.Madanmohan





17	20AK5A0136 20AK5A0126 20AK5A0149 20AK5A0123 20AK5A0102	smart parking management system	physical mode	2 weeks	Ms.A.Kalpana
18	20AK5A0146 20AK5A0147 20AK5A0144 20AK5A0145 20AK5A0142	solar panels on canals surface and floating on water surface	physical mode	2 weeks	Ms.B.Baby

HEAD

Dept. of Civil Engg. AITS, Tirupati-517 520

2.3.1-ECE - File NO.2.



Annamacharya Institute of Technology and Sciences (Autonomous) Department of Electronics and Communication Engineering



COLLABORATIVE LEARNING ACTIVITIES

Group Discussion Conducted for III B. Tech II sem

Microprocessors and Microcontrollers

Group 1: Discussion on differential features of 8085 and 8086

Student Roll no.	Name of the Student
20AK1A0475	PRADEEP KUMAR B
20AK1A0476	PRANEETHA G
20AK1A0478	PRIYANKA M
20AK1A0479	PRUDVI A
20AK1A0480	RAGHUNATH M



N. Rishyalalles HEAD

Dept. of Electronies & Commentantion hngg Annamacharya Institute of Technology & Sciences, TIRUPSTI-517 528

Group 2: Discussion on Importance of Memory Segmentation in 8086

Student Roll no.	Name of the Student	
20AK1A0482	RAJASEKHAR N	
20AK1A0483	RAJU C	
20AK1A0484	RAKESH S	
20AK1A0485	REDDY YAMINI P	
20AK1A0486	SADA G	



N. Ruehpalatta

HEAD Dept. of Electronics & Commentection Lugg Annamacherya Institute of Technology & Sciences, TIRUPATI-517 520

Student Roll no.	Name of the Student		
20AK1A0495	SANGEETHA N		
20AK1A0496	SANTHIPRIYA K		
20AK1A0497	SANTHOSH RAJ P		
20AK1A0498	SARATH B		
20AK1A0499	SASI VARDHAN REDDY K		

Group 3: Discussion on Microcontroller MSP430 features



Faculty Signature

N. Pushpalalis HOD ECE

Dept. of Electronics & Communitation Engs Annamacharya Institute of Technology & Sciences, TINUPATI-517 520

G. Pranee tha & Team 20 AK 1 AO 476. ECE dift Group Discussion Details Discussed Points on Differential characteristics of 8085 & BO86 Micro Processor -> 8085 it a 8bit Procettor Which allows only 8bit operands can slotler execution. -> 8086 is ulgraded to 16 bit Which ImProves Performance \rightarrow 8085 ohly 16 bits of addressing can address with $2^{16} = 64$ kB of Hemory. -> 8086 is a 20 bit addressing calacity Which allows 2²⁰ = IHB of Hemory. -> Memory symentation and PiPelining Process Included in 8086 can Improve Processor Performance -> 8086 follows Harvard architecture in ProceMor. -> 14 Internal Registers available Which allots Internal Storage Calacity More. Group Dix cultion Team Faculty 1. 20AKIA0 475 2. 20 AK 1A0 476 N. PUST ALEAD bert Dept of Electronies & Commention Lags 3. 20 AK 1 AO 478 L of Electromias & Commentoniton Eags Annamacharya Institute of Annamacharya Institute of Annamacharya TINU (MITLE 17.520 3, 20 AKIA0 479 C. 20 Ar 1 AO 480





List of Industrial Visit

S.no	Name of the Industry	No.of Participants	Date of Visit
1.	National Atmospheric Research Laboratory (NARL)	50	2/12/2022
2.	Sathish Dawan Space Center (SHAR)	93	23/2/2023

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HODSECE Dept. of Electronics & Communication Environmentation Environment Annamacharya Institute of Nechnology & Sciencee, TIKUPATI-517 520



Date of Visit: 02.12.2022

Totally **50 students of II year ECE-Section:** I of **AITS** visited the NATIONAL ATMOSPHERIC RESEARCH LABORATORY which is located in GADANKI in the district of Tirupati, AndhraPradesh. The students were accompanied by four faculty members from AITS. The establishment houses MST RADAR, Doppler Sodar, GPS Radio Sonde, 32x32 MST Radar Array, Roof mounted micro strip array antenna, Uhf wind profiler and Lidar.

The students group started from AITS campus at 9:30.00 a.m. and reached the NARL campus at 10.30 a.m. After several security checks and administrative formalities, visitors were allowed.

N. Ruthpalal Es

Dept. of Electronics & Communication 1999 Annamasharya Institute of Rechinology & Sciences, TIKUP/W1-517 520 NARL Visit: Students visited the NARL and learned about;

- MST RADAR
- DOPPLER SODAR
- GPS RADIO SONDE
- RAYLEIGH DOPPLER LIDAR
- UHF WIND PROFILER

The visit came to an end at 4:30pm

It was an informative, interesting and a successful visit. We learnt many new things about the Antenna System, Lidar, UHF Wind Profiler GPS RECEIVER used in atmospheric research.

In 32x32 Yagi uda array antennaa, the students learnt about how they are working, how the the signals are transmitted into space, how the gps receiver works for receiving the signal from space. They felt proud for the opportunity of visiting the advance technological establishment. Many students got inspired on visit

Conclusion:

The overall experience was enthralling and inspiring. The staff and students of ECE, AITS, Tirupati appreciated the tireless effort of the scientists who work to make each launch a success. The inspiration derived was well worth the time spent.

The students expressed their thankfulness to the principal who permitted them to go on the visit, the faculty members who accompanied us and the officials who explained the various departments.

N. Rishpalalis Dept. of Electronies & Commentation Lugg Annamacharya Institute of Pechaology & Sciences, TIRUANTI-517 520





Students at the NARL-Gadanki establishment

Faculty visited:

Facuty Name	Designation
Mr.N.DilipKumar	ASST. PROFESSOR
Dr.R.SenthamilSelvam	ASST. PROFESSOR
Ms. Hemvathi	Lab Technician
	Dept. of Electronies & Commentication http: Aunamacharya Institute of Rechnology & Sciences, TIRUFATI-517 520

List of the Students Visited:

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					The second se
	ł	1	21AK1A04	01	AKASH G
	H	2	21AK1A04	02	AKASH M
	F	3	21AK1A04	03	ANJANEYULU V
	F	4	21AK1A04	04	ANUSHA K
	F	5	21AK1A04	05	ASHA LATHA P
	F	6	21AK1A04	06	ASHWANI G
	\vdash	1	21AK1A040)7	ASMATHULLA SHAIK
	+	8	21AK1A04(8	BHARATH N
	H	9	21AK1A040	9	BHARATHCHAND N
	H	10	21AK1A041	0	BHASKAR RAMESH SAI P
	1	1	21AK1A041	1	BHAVANA C
	1	2	21AK1A041	2	BHOUNIKA S
	1	3	21AK1A041	3	CHANDINI P
	1.	4	21AK1A041	4	CHANDRA HARIKA S
	1	5	21AK1A041	5	CHANDRIKA G
	16	6 2	21AK1A0416	3 0	CHARAN REDDY Y
	17	7 2	21AK1A0417	/ (CHINNA NARASIMHA G
	18	3 2	1AK1A0418		CHIRANJEEVIN
	19	2	1AK1A0419		DEDEEPYA M
	20	2	1AK1A0420	C	EELIP REDDY P
	21	2	1AK1A0421		EEPIKA P
	22	2	1AK1A0423	D	HANUSHA M
ŀ	23	2	1AK1A0424	E	SWAR K
	24	2	IAK1A0425	G	ANESH K
	25	21	AK1A0426	G,	ANGA MADHAVI A
	26	21	AK1A0427	G	JRU GANGADHAR REDDY B
	27	21	AK1A0428	G	AREESHMA N
	28	21	AK1A0429	GI	RIP
	29	21/	AK1A0430	GC	OURI PRASANTH C
North Colored	30	21/	AK1A0431	GL	IRU ROHITH A
	31	21/	AK1A0432	HA	NEEF D
-	32	21/	K1A0433	HA	REESHM
	33	21A	K1A0434	HA	R
2	84	21A	K1A0435	HA	RSHAVARDHANA D
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HEAD Dept. of Electronics & Communication Logg Annamacharya Institute of Technology & Sciences, THUP471-517 520

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25	21AK1A0436	HARSHITHA B	
36	21AK1A0437	HARSHITHA C	
37	21AK1A0438	HARSHITHA CHOU	
38	21AK1A0439	HARSHITHA P	-
39	21AK1A0440	HEMA A	
10	21AK1A0441	HEMA K	
11	21AK1A0442	JAGAN MOHAN K	
12	21AK1A0443	JAGANMOHAN KRISHNIA M	
13	21AK1A0444	JAHNAVI B	-
14	21AK1A0445	JAYACHANDRA P	
45	21AK1A0446	JAYAKRISHNA K	
46	21AK1A0447	JAYAKRISHNA P	-
47	21AK1A0448	JAYASURYA Y	
18	21AK1A0449	KAILASH P	
10	21AK1A0450	KARTHIK J	
40	21AK1A0451	KAVERIK	-
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	(Autonomous)			
ALL PROPERTY AND	Department of Electronics and Communication Engineering			
	List of Socially Relevant Projects(2021-22)			
S.No	Title of the Broingt			
1.	Active Solar Tracking System Using Nada MCU			
2.	Automatic Door Lock System			
3.	Sewage Monitoring And Maintenance Alert System			
4.	Fire Detection And Alerting System			
5.	loT Based Smart Toll Tax Collection System			
6.	Fire Alarm System			
7.	Speech Controlled Robotic Vehicle			
8.	Automated Voice Controlled Robotic Vehicle			
9.	Touchless Hand Sanitizer			
10.	Home Automation			
11.	Automated Unmanned Bailway Level Crossing System			
12.	Plant Monitoring System			
13.	Automatic Street Light Control And Fault Detection System			
14.	Bidirectional Visitor Counter With Light Automation			
15.	Covid-19 Detection And Safety Measures			
16.	IoT Based Soil Moisture Detection			
17.	Smart Parking Management System			
18.	Alcohol Detection And Engine Lock System			
19.	Smart Gas Leakage Detector Using lot			
20.	Foot Step Power Generation			
21.	Conversion Of Plastic Waste Into Fuel			
22.	IoT Based Coal Monitoring And Controlling System			
23.	Bi-Directional Visitor Counter With Light Automation			
24.	Intelligent IOT Based Automated Irrigation System			
25.	Sun Tracking System Using IoT			
26.	Mini Spy Drone			
27.	Automatic Irrigation System With Message Alert			
28.	Automatic Water Planting System			
29.	Vehicle Accident Detection System Using Gps And Gsm Module			
30.	Foot Step Power Generation System			
31.	RFID Based Smart Traffic Signal For Ambulance			
32.	Smart Traffic Lighting System			

33. Temperature Controlled Fan

34.

Voice Control Robotic Vehicle Using Arduino

N: Puelpalatis

Dept. of Electronies & Commenscotion Eng Armanacobarya Institute of Technology & Sciences, TEXUPATI-517 52

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES::TIRUPATI Department of Electrical & Electronics Engineering <u>Socially Relevant Projects (19APR0203)</u>

Socially Relevant Projects carried out during III year-II Semester

S.NO	Name of The Student	Roll Number	Topic of SRP	Guide Name
1	AJITH KG	19AK1A0201	Block Chain Technology	Ms. VENKATARAMANAMMA
2	ALEKHYA YADAV G	19AK1A0202	Block Chain Technology	Ms. VENKATARAMANAMMA
3	ANIL KUMAR N	19AK1A0203	Block Chain Technology	Ms. VENKATARAMANAMMA
4	BALASUBRAMANYAM A	19AK1A0204	Block Chain Technology	Ms. VENKATARAMANAMMA
5	BHARATH KUMAR A	19AK1A0205	Future Of Fossil Fuels	Ms. VENKATARAMANAMMA
6	CHAITANYA C	19AK1A0206	Future Of Fossil Fuels	Ms. VENKATARAMANAMMA
7	CHAITANYA SUPRIYA M	19AK1A0207	Future Of Fossil Fuels	Ms. VENKATARAMANAMMA
8	CHAMANI K	19AK1A0208	Future Of Fossil Fuels	Ms. VENKATARAMANAMMA
9	DARSASREE LAKSHMI M	19AK1A0209	Quantum Computers	Mr. K.M.SANJEEVA KUMAR
10	DEEPTHI T	19AK1A0210	Quantum Computers	Mr. K.M.SANJEEVA KUMAR
11	DINESH G	19AK1A0211	Quantum Computers	Mr. K.M.SANJEEVA KUMAR
12	GANESH A	19AK1A0212	Quantum Computers	Mr. K.M.SANJEEVA KUMAR
13	GOWTHAMI D	19AK1A0214	Renewable Energy For 2030	Mr. K.M.SANJEEVA KUMAR
14	KALYAN KUMAR C	19AK1A0215	Renewable Energy For 2030	Mr. K.M.SANJEEVA KUMAR
15	KARTHIK K	19AK1A0216	Renewable Energy For 2030	Mr. K.M.SANJEEVA KUMAR
16	KARTHIK KUMAR REDDY Y	19AK1A0217	Renewable Energy For 2030	Mr. K.M.SANJEEVA KUMAR
17	KEERTHI D	19AK1A0218	Block Chain Technology	Mr. K.M.SANJEEVA KUMAR
18	KISHOREKUMAR REDDY N	19AK1A0219	Block Chain Technology	Mr. K.M.SANJEEVA KUMAR
19	LAHARI R	19AK1A0220	Block Chain Technology	Mr. K.M.SANJEEVA KUMAR
20	MADHU S	19AK1A0221	Block Chain Technology	Mr. K.M.SANJEEVA KUMAR
21	NAGENDRA REDDY N	19AK1A0222	Renewable Energy For 2030	Mr. K.M.SANJEEVA KUMAR
22	NANDI REDDY VENKATA PAVANI	19AK1A0223	Renewable Energy For 2030	Mr. K.M.SANJEEVA KUMAR
23	NITHIN KUMAR P	19AK1A0224	Renewable Energy For 2030	Mr. K.M.SANJEEVA KUMAR
24	NITHYA SREE C V	19AK1A0225	Fuel Cells	Mr. K.M.SANJEEVA KUMAR
25	NITYASREE K	19AK1A0226	Fuel Cells	Mr. P.SUDHEER
26	PADMAJA P	19AK1A0227	Fuel Cells	Mr. P.SUDHEER
27	RAJESWARJ M	19AK1A0228	Fuel Cells	Mr. P.SUDHEER
28	REVANTH KUMAR REDDY P	19AK1A0229	Renewable Energies For 2030	Mr. P.SUDHEER
29	SAI GEETHIKA N	19AK1A0230	Renewable Energies For 2030	Mr. P.SUDHEER
30	SALMANOLM	19AK1A0231	Renewable Energies For 2030	Mr. P.SUDHEER
31	SAIKUMAR NAIDU M	19AK1A0232	Renewable Energies For 2030	Mr. P.SUDHEER
1 32	SAITHARUN B	19AK1A0233	Desalination Technologies	Mr. S.PAUL CLEMENT
33	SRIKANTH M	19AK1A0234	Desalination Technologies	Mr. S.PAUL CLEMENT
34	<u>SWAPNA M</u>	19AK1A0235	Desalination Technologies	Mr. S.PAUL CLEMENT
25		19AK1A0236	Desalination Technologies	Mr. S.PAUL CLEMENT
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36	VAMSI KRISHNA REDDY B	19AK1A0237	Renewable Energies For 2030	Mr. S.PAUL CLEMENT
37	VAMSIKRISHNA K	19AK1A0238	Renewable Energies For 2030	Mr. S.PAUL CLEMENT
38	VINAYAK REDDY E	19AK1A0239	Renewable Energies For 2030	Mr. S.PAUL CLEMENT
39	SAI DEEPAK KUMAR T	19AK1A0242	Renewable Energies For 2030	Mr. S.PAUL CLEMENT
40	SAITHARUN T	19AK1A0243	Water Conversation Study	Mr. T. NAVEENKUMAR
41	LOHITHA.V	20AK5A0201	Water Conversation Study	Mr. T. NAVEENKUMAR
42	PAVANKUMAR.J	20AK5A0202	Water Conversation Study	Mr. T. NAVEENKUMAR
43	SIVA.R	20AK5A0203	Water Conversation Study	Mr. T. NAVEENKUMAR
44	SWARNA SRI.T	20AK5A0204	Water Conversation Study	Mr. T. NAVEFNKUMAR
45	UDAYKIRAN.Y	20AK5A0205	Fusion Energy	Dr. R. MURUGESAN
46	VENKATALAKSHMI CHAITANYA		Fusion Energy	
1	.Н	20AK5A0206		Dr. R. MURUGESAN
47	YAMINI.K	20AK5A0207	Fusion Energy	Dr. R. MURUGESAN
48	AHIDAR REDDY BALASANI	20AK5A0208	Fusion Energy	Dr. R. MURUGESAN
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Annamacharya Institute of Technology & Sciences: Tirupati (AUTONOMOUS) Department of Electrical and Electronics Engineering

Collaborative Learning Activity

Name of the Subject with Code: POWER ELECTRONICS (20APC0212) Name of the faculty handled the activity: Mr B. Eswar Kumar Unit in the syllabus: Unit-II Topic in the unit-II: Phase controlled Converters Name of the Activity: Group Discussion Date & Time: 11-Nov-2022 & 11:10AM To 12:00PM Name of the participated students:

TEAM-1	TEAM-2	TEAM-3	TEAM-4
A Harshitha-	S. Yasaswini-	C Harshawardan-	G. Vijaya Lakshmi-
20AK1A0208	20AK1A0211	20AK1A0207	20AK1A0238
J Ravi Kishore-	B. Sumanth-	T. Swetha-	K. Mohan-
20AK1A0220	20AK1A0225	20AK1A0227	21AK5A0209
K Rupesh-	K. Vamsi Srinivas-	S. Charan-	M. Muni Hemanth-
20AK1A0223	20AK1A0233	21AK5A0205	21AK5A0210

Group Discussion Title: Discussion on the 1-Phase fully controlled converters with (R, RL, RL+FD & RLE Loads) which converter has the continuous and dis-continuous current conduction in the output waveforms.





Remarks & Observations: All four teams participated in this activity performed well. Every team have one Advance learner, average learner and struggling learner. Every team kept their topic important and valid points in front of other teams. This process makes them to learn very efficiently and helps them to good remembering especially for average and struggle learners. In this Mr. J. Ravi Kishore from team-1, Ms. S. Yasaswini from team-2, from team-3 Mr. K. Mohan discussed points in the expert way. The session ended with all participants and viewers gaining better understanding of the 1-Phase fully controlled converters with (R, RL, RL+FD & RLE Loads).

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e of the HOD

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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES (AUTONOMOUS)

Venkatapuram (V), Karakambadi Road, Renigunta (M), Tirupati - 517 520, Chittoor (A.P)

COLLABORATIVE LEARNING ACTIVITY

Name of the subject with Code :CONTROL SYSTEMS (20APC0213)

Name of the Faculty handling the activity:Mr.S.Paul Clement

Unit of syllabus for which activity is done:UNIT-1

Name of Collabirative activity:JIG SAW

Date & Time of the activity: 20/10/2022 & 1:50pm -2:40pm

Name of the participants :

TEAM A	TEAM B	TEAM C	TEAM D
M. Sai Sankar	N. Sree Harsh	H. Abhinay	K. Deekshith
(21AK5A0216)	(21AK5A0219)	(20AK1A0201)	(20AK1A0206)
T.Muni Kumar	P. Prem Swaroop	Y. Charan	R.Reddy Praneeth
(20AK1A0216)	(21AK5A0212)	(20AK1A0205)	(20AK1A0222)
S. Vinay Kumar	A. Venkata Dheeraj	G. Venkata	B. Teja Narasimhulu
(20AK1A0239)	KumarYadav	Subramanya Balaji	(20AK1A0228)
	(21AK5A0220)	(20AK1A0237)	
K. Niharika	N. Jaya Krishna	G. Lakshmi Priya	V. Ravi Kumar
(20AK1A0217)	(21AK5A0207)	(20AK1A0213)	(20AK1A0221)
P.Vandhana	M. Rakesh	A. Teja	K. Veera Prasad
(20AK1A0234)	(21AK5A0213)	Sri(20AK1A0229)	(20AK1A0235)
V. Thanuja	A. Manikanta	J. Pujitha	M. Madhu Kumar
(20AK1A0231)	(21AK5A0208)	(20AK1A0218)	Reddy
			(21AK5A0218)

JIGSAW:

S.No	Topics	Team	Name of the Participant
1.	Modelling of Electrical systems	A	M. Sai Sankar
2.	Modelling of Mechanical systems	B	N. Sree Harsh
3.	Block diagram reduction	C	H. Abhinay
4.	Signal flow graphs	D	K. Deekshith



Remarks:

- 1. TeamA participant Mr. M. SaiSankar explained about electrical elements used in electrical systems and derivation of the equations from the given topic.
- 2. TeamB participant Mr. N. Sree Harsh explained the concept of stationary and dynamic elements and derivations of the equations from the given topic
- 3. TeamC participant Mr. H. Abinay shared the important rules in block diagram reduction
- 4. TeamD participant Mr. K. Deekshith expressed in his own words about Masons gain formula regarding SFG.

The session is ended with all participants and viewers gaining better way of understanding in all four topics mentioned above. All students enjoyed this activity very well.

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COLLABORATIVE LEARNING ACTIVITY

Name of the subject with Code :- ELECTRICAL MACHINES-I (20APC0203) Name of the Faculty handling the activity:- Dr. K. Balaji Nanda Kumar Reddy. Unit of syllubus for which activity is done:- UNIT-4 Topic Of the Syllubus:- 1-Phase Transformer Name of Collabirative Activity:- Seminar Date & Time of Activity: 28/01/23 10:20 AM To 11:10 AM Name of the participants :- 1) P MAHESH (22AK5A0217) Seminar Title :- Working Princple and Operation of 1-Phase Transformer



Remarks: - Mr P. Maheshgiven the Seminar on Working Principle & Operation of 1-Phase Transformer under No-load & load conditions. The session ended with all participants and viewers gaining better understanding of the topic.

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COLLABORATIVE LEARNING ACTIVITY

Name of the subject with Code :- ELECTRICAL CIRCUITS-1(20APC0201)

Name of the Faculty handling the activity:- Mr.T. NAVEEN KUMAR. Unit of syllubus for which activity is done:- UNIT-3 Topic Of the Syllubus:- Single phase AC circuits& series R-L AC circuit Name of Collabirative Activity:- THINK PAIR SHARE Date and time of activity:-17-11-2023 & 11.10 AM-12.00 PM. Name of the participants :-Pair-1

1) B.Harshitha (21AK1A0212) 2) P.Joshna(21AK1A0217)

Pair-2

1

1) J.Amruthavalli(21AK5A0202) and 2) A.Tulasi(21AK5A0244)

Title :- Think share pair on the concept of single phase AC circuits and series RL and RC AC circuit. 1). Harshitha and Joshna share thinking on the concept of altrnating current and phasor representation of alternating quantityto pair-2



2). Amruthavalli and thulasi share thinking on the concept of R-L and R-C series AC circuit



Remarks: - Ms.B.Harshitha shared her thoughts on alternating quantity and dc current after that P.Joshna also shared her views regarding phasor representation of alternating quantity to pair-2. In the same way J.Amruthavalli shared her thoughts on series RL AC circuit and after that A.Thulasi shared her views on the concept of series RC AC circuit to pair-1. The session ended with all participants and viewers gaining better understanding of the topic.

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COLLABORATIVE LEARNING ACTIVITY

Name of the subject with Code :- FLEXIBLE AC TRANSMISSION SYSTEMS (19APE0205)

Name of the Faculty handling the activity:- Mr. P. Sudheer.

Unit of syllubus for which activity is done:- UNIT-1

Topic Of the Syllubus:- Power flow in A.C System

Name of Collabirative Activity:- GROUP DISCUSSION

Date and Time of Activity:- 10-10-2022 and 12.00PM to 12.50PM

Name of the participants :-1) G.Alekhya (19AK1A0202)

2) K. Nithysri(19AK1A0226)

- 3) V.Lohitha (20AK5A0201) and
- 4) H.Venkata Lakshmi Chaithanya (20AK5A0206)

Group Discussion Title :- Discussion on which are of the following power flow in AC system is superior

1) Power Flow In Paralllel Paths

2) Power Flow In Meshed Paths



Remarks: - Ms.H.Venkata Lakshmi Chaithanya discussed the specification of Meshed paths is best because it is a simpleprocess and has scope for more applications. Also Ms. H. Venkata Lakshmi Chaithanya confidently listed the merits of Meshed paths and the demerits of Parallel paths. The session ended with all participants and viewers gaining better understanding of the topic.

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ANNAMACHARYA INSTITUTE OF TECHNOLOGY&SCIENCES::TIRUPATI (AUTONOMOUS)

Venkatapuram(V), Karakambadi(P), Renigunta(M), Tirupati- 517520, Chittoor(D), A.P.

This is to inform all the I year CSE-2 faculty that the Collaborative Learning Class has been proposed to conduct on EVERY Monday to improve the quality of students. Hence, the following staff members are requested to conduct CLC Activities without fail.

S.No	Date	Subject	Faculty name	Signature
1	20/12/2021	AC	N.Sujana Kumari	Att
2	27/12/2021	PSP	M.Kiranmoni	Aspa
3	03/01/2022	CH	Dr.P.Lavanya	the
4	10/01/2022	NM	Dr.P.Krishna Jyothi	fre ,
5	17/01/2022	IT	Ms.Divya	Alata
6	24/01/2022	AC	N.Sujana Kumari	1 the
7	31/01/2022	PSP	M.Kiranmoni	poten
8	14/02/2022	CH	Dr.P.Lavanya	H
9	21/02/2022	NM	Dr.P.Krishna Jyothi	(K)
10	28/02/2022	IT	Ms.Divya	Q.
11	07/03/2022	AC	N.Sujana Kumari	Off.
12	14/03/2022	PSP	M.Kiranmoni	Action
13	21/03/2022	CH	Dr.P.Lavanya	· FP
14	28/03/2022	NM	Dr.P.Krishna Jyothi	As.
15	07/03/2022	IT	Ms.Divya	Q
16	04/04/2022	AC	N.Sujana Kumari	CHC
17	11/04/2022	PSP	M.Kiranmoni	papier

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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES (AUTONOMOUS)

Venkatapuram (V), Karakambadi Road, Renigunta (M), Tirupati – 517 520, Chittoor (A.P)

COLLABORATIVE LEARNING CLASS- CHEMISTRY(19ABS9903)

I B.TECH COMPUTER SCIENCE AND ENGINEERING-2,

GIGSAW CONDUCTED ON 03-01-2022







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I. B. Tech Cfc ->- I SEM (Chemistry)

Date: 03/01/2022

Activity Name: Jigsaw.

Outcome: It helps in generating more ideas, student know about their mistakes, build confidence,

Enhance listing and speaking skills.

Procedure: jigsaw is conducted in 3 steps. Size of team is 4 members. Again these teams divided into 2 groups. i.e group-1(1A,1B, 1C)and groups-2(2A,2B, 2C).

Step1: Initially teams are as follows

GROUP	GROUP MEMBERS		Discussion on Titles	TIME
1 3.4	1A	1B 1C	Explain Application of Schrodinger wave Equation to particle in one dimensional box.	15min
2	2A	2B 2C	Explain Postulates of MOT	-

Step2: swapping of groups and start the discussion on both titles.

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	1A 2B 2C	Explain Postulates of MOT	1Emin
2	2A 1B 1C	Explain Application of Schrodinger wave	15000
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Equation to particle in one dimensional box, s	

Step3: Test team of 4-student skills.[10 min]

S.No	Roll No	Name of the student	Sign
1		B. Rajeswani	B Diesum
2		M. Dohen Don IT!	10. Najesila
3		M Marin Deepchi	M. Deepth.
4		P. Q. A	M. Mouniko
5		r SaiAmmulu_	P. SaisAmal
5		G. Monasa	alla
		M. Kavyastee Keddy	Mikarya

Feedback:

*. I Like this programme due to we learnt fast, we can memorize by our group discussion, and improve our learning skills





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I. B. Tech CJE-2 I SEM (Chemistry)

Date: 03/01/2022

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Step1: Initially teams are as follows

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	1A 1B 1C	Explain Application of Schrodinger wave Equation to particle in one dimensional box.	15min
2	2A 2B 2C	Explain Postulates of MOT	1

Step2: swapping of groups and start the discussion on both titles.

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	1A 2B 2C	Explain Postulates of MOT	15min
2	2A 1B 1C	Explain Application of Schrodinger wave	
		Equation to particle in one dimensional box. s	

Step3: Test team of 4-student skills.[10 min]

S.No	Roll No	Name of the student	Sign
1		A.Sandeep	A
2		R. Manoj Kumar	Dinapallong
3		P. Naveen Kumar	P.A.pen
4		k. Kumar	Di
5		y. Naveen Kumar	V:plant
6		A. Sai Ram	fairant.

Feedback: Et is good idea to learn queations more easily Et is very useful to all students. 1. Define Schrodinger Wave Equation, Give its formula, and Give any four applications of Schrodinger wave equation [1*10=10 marks]



A grade- 15-20marks

B grade-10-14 marks C grade- 05-09 marks D grade- 0-04 marks



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I. B. Tech C(E⁻² I SEM (Chemistry)

Date: 03/01/2022

Activity Name: Jigsaw.

Outcome: It helps in generating more ideas, student know about their mistakes, build confidence,

Enhance listing and speaking skills.

Procedure: jigsaw is conducted in 3 steps. Size of team is 4 members. Again these teams divided into 2 groups. i.e group-1(1A,1B, 1C) and groups-2(2A,2B, 2C).

Step1: Initially teams are as follows

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1 1	1A 1B 1C	Explain Application of Schrodinger wave Equation to particle in one dimensional box.	15min
2	2A 2B 2C	Explain Postulates of MOT	e (15 (

Step2: swapping of groups and start the discussion on both titles.

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	1A 2B 2C	Explain Postulates of MOT	15min
2	2A 1B 1C	Explain Application of Schrodinger wave	
A.,		Equation to particle in one dimensional box. s	

Step3: Test team of 4-student skills.[10 min]

Team I	Name:		
S.No	Roll No	Name of the student	Sign
1		S. Nayaz	E shups
2		p. Rajasekhar	P. Raleur
3		M. Khyathi kiran Reddy	M-Kryath
4		U. Sai Sozan	U. Sei Sohu
5		S. Lokesh	Steld
6		m.R. mesh	mikumpsh

Feedback: By this we have learnt 2 or estions. Thank you man.

1. Define Schrodinger Wave Equation, Give its formula, and Give any four applications of Schrodinger wave equation [1*10=10 marks] Schaondinger Wave Equation: This wave equation that decribes dual nature of matter of wave nature of particle that is Pasticle equation and dual equation both -Applications of Schrondinger Wave equation: 5) It explains rescue. It explains bang theory. It explains degeneracy of orbitals. 2) It explains energy level 3) 4) It is used to calculate ison energy and ison wave function in one dimensional and three dimension 2. Draw the MOT diagram for CO, N₂ [1*10=10 marks]

N2 I 15 25 2p3

 $C = 1S^{2} 2S^{2} 2p^{2}$ $O = 1S^{2} 2S^{2} 2p^{4}$





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I. B. Tech CJE-2 I SEM (Chemistry)

Date: 03/01/2022

Activity Name: Jigsaw.

Outcome: It helps in generating more ideas, student know about their mistakes, build confidence,

Enhance listing and speaking skills.

Procedure: jigsaw is conducted in 3 steps. Size of team is 4 members. Again these teams divided into 2 groups. i.e group-1(1A,1B, 1C) and groups-2(2A,2B, 2C).

Step1: Initially teams are as follows

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	1A 1B 1C	Explain Application of Schrodinger wave Equation to particle in one dimensional box.	15min
2	2A 2B 2C	Explain Postulates of MOT	

Step2: swapping of groups and start the discussion on both titles.

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1 .	1A 2B 2C	Explain Postulates of MOT	15min
2	2A 1B 1C	Explain Application of Schrodinger wave Equation to particle in one dimensional box, s	

Step3: Test team of 4-student skills.[10 min]

S.No	Roll No	Name of the student	Sign
1		P. Kavyamyutha	Pikauura
2		B. Mabathi	B. Mabatta
3		P. Repuka	D. Panuka
4		K. Marudwath:	K Nandersthi
5		K. Lasua Peddu	Filowa Podd
6		K. Koulla	V N V I AD

Feedback:

It is very useful and interesting. It helps in clarifing doubts and know the new things.

1. Define Schrodinger Wave Equation, Give its formula, and Give any four applications of Schrodinger wave equation [1*10=10 marks]





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I. B. Tech CJC-> I SEM (Chemistry)

Date: 03/01/2022

Activity Name: Jigsaw.

Outcome: It helps in generating more ideas, student know about their mistakes, build confidence,

Enhance listing and speaking skills.

Procedure: jigsaw is conducted in 3 steps. Size of team is 4 members. Again these teams divided into 2 groups. i.e group-1(1A,1B, 1C)and groups-2(2A,2B, 2C).

Step1: Initially teams are as follows

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	1A 1B 1C	Explain Application of Schrodinger wave Equation to particle in one dimensional box.	15min
2	2A 2B 2C	Explain Postulates of MOT	

Step2: swapping of groups and start the discussion on both titles.

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	1A 2B 2C	Explain Postulates of MOT	15min
2	2A 1B 1C	Explain Application of Schrodinger wave	
		Equation to particle in one dimensional box. s	

Step3: Test team of 4-student skills.[10 min]

S.No	Roll No	Name of the student	Sign
1	×	Gi. Jyothika	G. Jyothiba.
2		N-Samua	NEEDdiara
3		K. Sabithya	K. Solithan
4		in a second state of the s	r sun reger
5			
6			

Feedback: its intresting and knowledgable



1. Define Schrodinger Wave Equation, Give its formula, and Give any four applications of Schrodinger wave equation [1*10=10 marks]



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I. B. Tech CJE-2 I SEM (Chemistry)

Date: 03/01/2022

Activity Name: Jigsaw.

Outcome: It helps in generating more ideas, student know about their mistakes, build confidence,

Enhance listing and speaking skills.

Procedure: jigsaw is conducted in 3 steps. Size of team is 4 members. Again these teams divided into 2 groups. i.e group-1(1A,1B, 1C) and groups-2(2A,2B, 2C).

Step1: Initially teams are as follows

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	1A 1B 1C	Explain Application of Schrodinger wave Equation to particle in one dimensional box.	15min
2	2A 2B 2C	Explain Postulates of MOT	-

Step2: swapping of groups and start the discussion on both titles.

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	1A 2B 2C	Explain Postulates of MOT	15min
2	2A 1B 1C	Explain Application of Schrodinger wave Equation to particle in one dimensional box s	

Step3: Test team of 4-student skills.[10 min]

Team I	Name:		
S.No	Roll No	Name of the student	Sign
1		G. Sai Divya	G Soi Divyg
2		J. Sai Likitha	- 8° (110/1
3		P. Sana Afroz	Pa Cauca A Graz
4		D. Manisha	To all artics
5		S. Nouro	D. Maurena
6		G1. Khasimbee	G khasin ho

Feedback:

-> CLC classes brings us good knowledge about a particular topic with deep discussions.

-> It increases good co-ordination between students and good learning stills.

1. Define Schrodinger Wave Equation, Give its formula, and Give any four applications of Schrodinger wave equation [1*10=10 marks]

Schoolinger Wave Equation:
Hormula:
$$\frac{\partial^2 \psi}{\partial x^2} + \frac{\partial^2 \psi}{\partial y^2} + \frac{\partial^2 \psi}{\partial x^2} + \frac{2m[E-v]\psi}{\pi^2} = 0$$

 $\nabla^2 \psi + \frac{2m[E-v]\psi}{\pi^2} = 0$
Split ations:
 \rightarrow Jt is used to derive Quaritum numbers
 \rightarrow Jt is used to adulate eigen energy, eigen wave function of a fonticle
in one elimension and three dimension.
 \rightarrow Jt explains degeneracy of Orbitols
 \rightarrow Jt explains degeneracy of Schergy Jevels:
 $2. Draw the MOT diagram for CO, N_2$
No molecule:
 $C_{g} = 16^2 25^2 2p^2$
 $O_{g} = 15^2 25^2 2p^2$
 $O_{g} = 16^2 100^2$
 $E_{g} = 16^2 100^2$
 $E_{g} = 16^2 100^2$
 $E_{g} = 16^2 100^2$
 $E_{g} = 16^2 100^2$
 $V = \frac{1}{10} 100^2$



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I. B.Tech CJE-2 I SEM (Chemistry)

Date: 03/01/2022

differ " to borned!

Activity Name: Jigsaw.

Outcome: It helps in generating more ideas, student know about their mistakes, build confidence,

Enhance listing and speaking skills.

Procedure: jigsaw is conducted in 3 steps. Size of team is 4 members. Again these teams divided into 2 groups. i.e group-1(1A,1B, 1C) and groups-2(2A,2B, 2C).

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2	2A 2B 2C	Explain Postulates of MOT	

Step2: swapping of groups and start the discussion on both titles.

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	1A 2B 2C	Explain Postulates of MOT	15min
2	2A 1B 1C	Explain Application of Schrodinger wave Equation to particle in one dimensional box s	2.000

Step3: Test team of 4-student skills.[10 min]

Team N	lame:	I FOR THE PERIOD	
S.No	Roll No	Name of the student	Sign
1		A.Sandhua	A. Snul
2		T. Nagalak shini	T: Dlandalash
3		A. Mouniko	A. Maurita
4		G.Mounika	1/20 Marine
5	-	M. Prothusha	Morathuncha
6		P. Reddomma	D. Pedlance

Feedback:

Thankyou for giving this time to read the Subject and gain knowledge. 1. Define Schrodinger Wave Equation, Give its formula, and Give any four applications of Schrodinger wave equation [1*10=10 marks]

Schrodinger wave equation: The TT electrons in a consugate molecule to be constructed according to the afbou principle.

formula:
$$\frac{\partial \psi}{\partial x^{*}} + \frac{\partial^{*}\psi}{\partial y^{*}} + \frac{\partial^{*}\psi}{\partial z^{*}} + \frac{\partial m(\varepsilon - v)}{v} = 0$$

Applications:

 Schrodinger core equation is used to calculate ideal energy & wave function
 At explains band theory.
 At is used to calculate degenerated energies.
 At is used to calculate resonance energies.
 Draw the MOT diagram for CO, N2 [1*10=10 marks]



N2= 152522p3





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1	1A 1B 1C	Explain Application of Schrodinger wave Equation to particle in one dimensional box.	15min
2	2A 2B 2C	Explain Postulates of MOT	11 13 1

Step2: swapping of groups and start the discussion on both titles.

GROUP	GRC MEN	DUP MBER	s	Discussion on Titles	TIME
1	1A	2B	2C	Explain Postulates of MOT	15min
2	2A	1B	1C	Explain Application of Schrodinger wave	
				Equation to particle in one dimensional box. s	•

Step3: Test team of 4-student skills.[10 min]

S.No	Roll No	Name of the student	Sign
1		K. Nikhil	K.Wikhle.
2		K. Rampath	K-Romanals.
3		P. Rakesh	P Patesh
4		S. Nithiin Reddi	Nothim
5		T. KUShwanth Reddy	Ke Aren well Danted
6		S. Rojesh Reddy	Parcel Poddie X

Feedback:

It is v.good foor studen ts.

IF is very use for us





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Step1: Initially teams are as follows

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	1A 1B 1C	Explain Application of Schrodinger wave Equation to particle in one dimensional box.	15min
2	2A 2B 2C	Explain Postulates of MOT	Sec. 2

Step2: swapping of groups and start the discussion on both titles.

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	1A 2B 2C	Explain Postulates of MOT	15min
2	2A 1B 1C	Explain Application of Schrodinger wave Equation to particle in one dimensional box. s	South

Step3: Test team of 4-student skills.[10 min]

Team l	Name:	λ. (1.0 p)	121
S.No	Roll No	Name of the student	Sign
1		K. Nithin Kumax Rendy	Neufury.
2		M. Rajesh Naik	Rich North
3		O' lai Charan Rai	O. Jey'chormen
4		R. Sai Kumax	Acq
5		C. Manai in Kumar	Smile m
6		Gi-Mani Subsamanyam	17 maki

Feedback:

It is good for Revising the questions and lessone. and it's improve the communication skills.

1. Define Schrodinger Wave Equation, Give its formula, and Give any four applications of [1*10=10 marks] Schrodinger wave equation APPlications of Schoodinger 1) It is used to calculate eigen energy or eigion in one dimensional and 3N 3) It is used to desive quantum numbers. 3) It is used to calculate energy of electron in conjugated system. , It is used to find pastical in one-dimensional box. i) It explains degressession degensery of osbitals. Schoodinger wave equation:-The mothernatics egn that describes wave accessed nature of matter that is both wave nature and Partical nature. Foomula:-2. Draw the MOT diagram for CO, N2 [1*10=10 marks] Nitrogen - 152, 252 213 5-2P2 $B.0 = \frac{1}{2} [NB - NA]$ $= \frac{1}{2} [10 - 4]$ ЯИИ 262Py 20% T2Br T2Pu 11 at 902 = 1 6 11 252 -252 d'amognetic nature HL 0-152 Total marks secured by team Grade Signature of the faculty * A grade- 15-20marks C grade- 05-09 marks D grade- 0-04 marks B grade-10-14 marks



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I. B. Tech CIE-2-I SEM (Chemistry)

Date: 03/01/2022

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Step1: Initially teams are as follows

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10 1080	1A 1B 1C	Explain Application of Schrodinger wave Equation to particle in one dimensional box.	15min
2	2A 2B 2C	Explain Postulates of MOT	- 17

Step2: swapping of groups and start the discussion on both titles.

GROUP	GROUP MEMBERS	Discussion on Titles	TIME
1	1A 2B 2C	Explain Postulates of MOT	15min
2	2A 1B 1C	Explain Application of Schrodinger wave	1.511111
		Equation to particle in one dimensional box, s	

Step3: Test team of 4-student skills.[10 min]

S.No	Roll No	Name of the student	Sign
1		Sa Man? Kunnau	6 Holler
2		Ye Soi Reddy Two ofth	Pulant
		Gakashan P 1	Tune of User
-		4. Respara branna	9×13
		GH C C L L C	r1.5.1002
5		D. P. A.	Ch. Saidurga hahe

Feedback:

It is very useful to understand

the topics easily.

1. Define Schrodinger Wave Equation, Give its formula, and Give any four applications of Schrodinger wave equation [1*10=10 marks]

Schrödingen Wave Equation;

$$\frac{\partial^2 \psi}{\partial \alpha^2} + \frac{\partial^2 \psi}{\partial \gamma^2} + \frac{\partial^2 \psi}{\partial z^2} + \frac{2m}{5^2} [E-V]\psi = 0$$

Applications of schrodinger wave equation

1 It earplains Plank's theory

- 21 It explains resonance of high energy level
- 31 It is used to calculate Eigen's energy and Eigen's function of one and three dimensional box.

41 It is used to find particle in one dimensional box.2. Draw the MOT diagram for CO, N2[1*10=10 marks]



2-3.1-MBA-Filed

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Venkatapuram (V), Karakambadi Road, Renigunta (M), Tirupati – 517 520, Chittoor (A.P)

Department of MBA COLLOBORATIVE LEARNING CLASS Subject: INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT

Date: 13-03-2022

Class: MBA

Activity: Case-Based Collaborative Learning OBJECTIVE:

Case-Based Collaborative Learning (CBCL) provides a structured, student-centered approach to learning challenging material within realistic scenarios from the field. In the CBCL classroom, students identify and wrestle with concepts as they appear in reality.

PROCEDURE:

- 1. Students are informed to form a team and given various case studies
- 2. Students of team discuss about the case and they present to the classmates

Team	Team Members	Topic Chosen		
	BHARATH KUMAR J			
	BHASKAR REDDY M			
A	BHASKAR YADAV P	- valuation of shares		
	BOGADI A			
	CHANUKYA K			
	ESWAR REDDY T			
	GAUTHAM T			
В	GIRISH Y	Summary of fundamental analysis, technical analysis		
	GNANENDAR REDDY C	and encient market hypothesis		
	GURU MADHAN MOHAN N			
	INDU D			
	JEEVAN REDDY B			
C	JINO J	What are aquity shares evaluin its factures and the its		
	JYOTHESH KUMAR G	what are equity shares explain its features and merits		
	LAVAKUMAR REDDY B			
	MANASA M			
	SAHILRATHOD N	Valuation of the present value of shares		
	SAI BRAHMANI P			
D	SAI CHANDANA M			
	SAI LAKSHMI R			
	SAI RAM T			

E HOD-MBA

Dept. of Management Studies Annamacharya Institute of Technology & Sciences, TIRUPATI-517









-05 HOD-MBA

Dect. of Management Studies Annamacharya Institute of Technology & Sciences, TIRUPATI-517 / HOD-N

Case study on Present Value do the Cash-flows and Valuation do sharres

> Name: J. 13HARATH KUMAR RINO: 20AKIE0005 Subject: EAPM

Consider five annual cash flour (the first occurring place year from today).

year : 2 345 Cash flow : 12 15 16. 8

Given a discout rate of 10 percent, what is the prepart value of this stream of cash flow ?

solution ?-

$$PY = \frac{C1}{(1+K)^{1}} + \frac{C_{2}}{(1+K)^{2}} + -\dots + \frac{Cn}{(1+K)^{n}}$$

where

C1, C2, C3 --- cn = future cash flougat time period 1,2, -- n.

= 40.3530

Here.

$$PY = \frac{5}{(1+0\cdot1)^{1}} + \frac{8}{(1+0\cdot1)^{2}} + \frac{12}{(1+0\cdot1)^{3}} + \frac{15}{(1+0\cdot1)^{4}} + \frac{11}{(1+0\cdot1)^{5}}$$

= $(4 \cdot 545 + 6 \cdot 612 + 9 \cdot 016 + 10 \cdot 245 + 9 \cdot 935$

2.

"A shore is currently selling for 65. The company is a cuted to pay a divided of 250. on the share at the end of the year. It is reliably estimated that the share will sell for its at the end of the year.

- 1. Assuming that the dividende and price forecasty are accurate, would youbly the share to hold it for one year, if your required rate of return where 12 per cut?
- 2. Given the current price of 65 and the expected dividend of 2.50 that would the price. have to beat the ond of one year to juftity purchase of the share to day, if your reactived rate of return were 15 per ant ?

Solution:-

share valuation model for one-year holding periodiss 1. The

S0 =	·Di	+ SI
Ĩ([+k]	(i+k)

Given •

D1 = 2.50 S1 = 78 1 = 12.1.

 $SO = \frac{9.50}{(1+0.12)} + \frac{78}{(1+0.12)}$ = 2.23+69.64=71.87.

Given 2.

current price = 65 DI = 2.50 K = 15 per cent.

$$65 = \frac{9.50}{(1+0.15)^{1}} + \frac{x}{(0+0.15)^{1}}$$

$$65 = 2.17 + \frac{x}{(1.15)}$$

$$1.15(65-2.17) = X$$

x = 1.15 (62.83) = 12.25

A selling price 0, 12.25 at the end of the gear would

you have decided to buy 500 sharry of an IT company with the intenfiance selling out at the end of five years, gas effinate that the company will pay 3.50 per share as dividendy for the first two yeary holding period. The sharry can be sold for 85. what would you be willing to pay to day for these sharrey. if your required rate of return is 12.1.

solution 5-

$$SO = \frac{D_1}{(1+k)^1} + \frac{D_2}{(1+k)^2} + \frac{D_3}{(1+k)^3} - -+ \frac{Dn+Sn}{(1+k)^n}.$$

Criven .

Di and D1 = 3.50. D3, D4 and D5 = 4.50 SI = 85 12=121.

Henle.

4.

A

tue

So =
$$\frac{3.50}{(1+0.12)^2} + \frac{3.50}{(1+0.12)^2} + \frac{4.50}{(1+0.12)^3} + \frac{4.50}{(1+0.12)^4} + \frac{4.50}{(1+0.12)^4} + \frac{55}{(1+0.12)^4} + \frac{55}{(1+0$$

Price for this Campany's share?

Solution 5-

So = Do (1-g) K-A.

Given

D0 = 4 7=8% K= 14.10

SO = 4 (1+0.08) - 4.32 <u>CO.14-0.08</u> - 4.32 <u>o.06</u> = 72. The fair price for the Company's shary would be 12.

A compay paid dividendy amounting to 0075 por shore during the last year. The company is expected to pay 2 pershare during the next fear. Envestory. forecast a dividend of 3 per chance in the year after that. The seabler, PH 95 expected that dividendy will grow at 10% per gear into an on de finite fature would you bay/sell the share if the Conrout price of the shary is 547 investory reactived rate of returns in 15 %.

solution :-

5.

The valuetion model to be applied in this case is the two-stage grown model.

SO= V1+V2 $V_{1} = \frac{D_{1}}{(+k)^{1}} + \frac{D_{2}}{(+k)^{2}}$ V2= Dr (1+g) (K-g)(HK)

$$\begin{array}{l} G_{1}^{2} Ven \\ D_{1} &= 2 \\ D_{2} &= 3 \\ N &= 2 \\ \partial &= 10 \cdot l \\ N &= 15 \cdot l \\ \end{array}$$

$$\begin{array}{l} V_{1} &= \frac{2}{(l+0 \cdot l5)^{2}} + \frac{3}{(l+0 \cdot l5)^{2}} \\ &= 1 \cdot 7 \cdot 4 + 2 \cdot 27 = 4 \cdot 0 l \\ \end{array}$$

$$\begin{array}{l} V_{2} &= \frac{3(1+0 \cdot l0)}{(0 \cdot l5-0 \cdot l0)(l+0 \cdot l5)^{2}} \\ &= \frac{3 \cdot 3}{(0 \cdot 05)(l \cdot l5)^{2}} = lq \cdot q_{1}, \\ \end{array}$$

$$\begin{array}{l} S_{0} &= q \cdot 0 l + uq \cdot q_{1} = 5 \cdot 3 \cdot q_{2} q_{1}. \end{array}$$

A Chemical company paid a dividend of 2.75 during the current year. for e costy suggest that earnings and dividends of the compayare likely to grow at the rate of 5.1. over the next fire years and at the rate of 5.1. there a fer . Investory nave traditionality required a rate of 20 per cent on these shary . What is he present value of the stock?

6.

solutions-

Gliven.

DO = 2. 75. N = 512 = 20 %. 9 = 81. g = 5%.

here,

$$D_{1} = D_{0} (1 + g)^{1} = 2 \cdot 75 (1 + 0 \cdot 08)^{1} = 2 \cdot 97.$$

$$D_{2} = D_{0} (1 + g)^{2} = 2 \cdot 75 (1 \cdot 08)^{2} = 3 \cdot 2.1.$$

$$D_{3} = D_{0} (1 + g)^{3} = 2 \cdot 75 (1 \cdot 08)^{3} = 3 \cdot 46.$$

$$D_{4} = D_{0} (1 + g)^{4} = 2 \cdot 75 (1 \cdot 08)^{4} = 3 \cdot 74.$$

$$D_{5} = D_{0} (1 + g)^{5} = 2 \cdot 75 (1 \cdot 08)^{5} = 6 \cdot 64.$$

$$V_{1} = \frac{2 \cdot 47}{(1 + 0 \cdot 2)^{1}} + \frac{3 \cdot 21}{(1 + 62)^{2}} + \frac{3 \cdot 46}{(4 + 62)^{3}} + \frac{3 \cdot 74}{(1 + 62)^{4}} + \frac{4 \cdot 04}{(1 + 62)^{5}}$$

$$= 2 \cdot 48 + 2 \cdot 23 + 2 \cdot 60 + 1 \cdot 80 + 1 \cdot 62.$$

$$V_{2} = D_{N1} (1 + g)$$

$$= \frac{10 \cdot 13}{(1 - g)(1 - k)^{N}}$$

$$= \frac{4 \cdot 04 (1 + 0 \cdot 05)}{(0 \cdot 20 - 0 \cdot 05)(1 + 620)^{5}}$$

$$= 4.24 = 11.36.$$
SO = V1 + V2 = 10.13 + 11.36=21.49. The present value of the stock is =21.49. Cemut products Ltd. Earrently pays a dividend of 4 per share on ity calling sharry. 1. If the company plany to increase ity dividend at the tate of & per cent per jear in de finitely, what will be the dividend per shorse in 10 years? 2. If the com pany's directed per share is expected to be 7.05 per share at the end of fire years, at what annual rate is fue devidend expected to grow? solution :-1. Do= 4. 8=8%. $D_{10} = D_0 (1+q)^{10} = 4 (1+0.08)^{10} = 8.64.$ hence 2. Do = 4. D 5= 7.05 we have to determine the growth rate, that is, g. D5 = Do(1+g)5

1.

7.05 = 4 (1+9)5.

 $\frac{7.05}{4} = (1+g)^{5}$ - 63 1. 7625 = (1+g)5 (1+g) = 5/1.7625. 1+g = 1.12. g = 1.12-1=0.1200 12.1. Henle, d'isidend growthe gate is & por cont.