

Rubric –Mini Project [KEC354/554]

Statement: Review by the Mini Project Coordinator: Students will be able to practice acquired knowledge within the chosen area of technology for project development.

Expectation:--> Criteria	Scale of Assessment			Score
	0-35%(Fair)	35-70(Good)	70-100%(Excellent)	
C1- Identification of Project	Detailed and extensive explanation of the purpose and need of the project	Average explanation of the purpose and need of the project	Detailed and extensive explanation of the purpose and need of the project	
C 2- Planning & Implementation of Project	1.Time frame not properly specified 2. In-appropriate distribution of project work	1.Time frame properly specified, but not being followed 2.Distribution of project work un-even	1.Time frame properly specified and being followed 2.Appropriate distribution of project work	
C 3- Demonstrate the project.	Modules are working well in isolation and properly demonstrated but not properly integrated.	Each module working well and properly demonstrated. Integration of all modules done but system working is not very satisfactory.	Each module working well and properly demonstrated and all modules of project are well integrated and system working is accurate	
C 4- Team and Individual work	Makes little or no attempt to collaborate in a group situation	Exchanges some views but requires guidance to collaborate with others	Collaborates and communicates in a group situation and integrates the views of others	
Total Score				

Course Outcome No.	Description	Bloom's Taxonomy Level
CO1	Identification of a project proposal which is relevant to the subject of engineering.	L ₂
CO2	Implement proposed project with estimated cost and time of completing the work.	L ₃
CO3	Demonstrate the project with its working.	L ₆
CO4	Demonstrate leadership with team and individual work whilst abiding by established norms of professional ethics.	L ₃

KL- Bloom's Knowledge Level (L₁, L₂, L₃, L₄, L₅, L₆)

L₁-Remember, L₂- Understand, L₃- Apply, L₄- Analyze, L₅- Evaluate, L₆- Create


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22-23

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List of Mini Projects allotted in the end of II and IV Semester and Evaluated in II & V semesters. Mini projects should be on multi-disciplinary concept as far											
Department: ECE			Subject Code: KEC-354								
S. No.	Dept.	Program Code	Sem/Section	Session	Group	ROLL NO.	STUDENT NAME	PROJECT TITLE	Technology	GUIDE	PO/PSO Mapping
1	ECE	KEC -354	III	2022-23	G1	2102220310029	Sonu	Water Level controller using Arduino Uno	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5, PO9,PO10,PO11, PO12, PSO1
						2102220310021	Rakesh				
2	ECE	KEC -354	III	2022-23	G2	2102220310023	Sahwag	Alcohol detector using Arduino & MQ3 Sensor	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5, PO9,PO10,PO11, PO12, PSO1
						2102220310018	Taushif				
3	ECE	KEC -354	III	2022-23	G3	2102220310026	Sushant	Arduino Based Solar Tracker System	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5, PO9,PO10,PO11, PO12, PSO1
						2102220310002	Abhay				
						2102220310024	Sahzaad				
4	ECE	KEC -354	III	2022-23	G4	2102220310010	Avinash AB Roy	Obstacle Avoiding Robot	IoT & Robotics	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5, PO9,PO10,PO11, PO12, PSO1
						2102220310005	Aditya Rana				
						2102220310007	Akmal				
5	ECE	KEC -354	III	2022-23	G5	2102220310012	DevRaj Singh	Bluetooth Controlled Obstacle Avoidance & Voice Operated Car	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5, PO9,PO10,PO11, PO12, PSO1,PSO2
						2102220310022	Riya Chaudhary				
6	ECE	KEC -354	III	2022-23	G6	2102220310030	Urvesh Saifi	Heart Beat Monitoring System	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5, PO9,PO10,PO11, PO12, PSO1
						2102220310028	Sneha Tripathi				
						2102220310016	Md. Gulab Nabi				
7	ECE	KEC -354	III	2022-23	G7	Lateral Entry	Rahul Kumar	Home Automation System	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5, PO9,PO10,PO11, PO12, PSO1
						2102220310014	Harshit Raj				
						2102220310027	Siddhartha				
8	ECE	KEC -354	III	2022-23	G10	Lateral Entry	Abhijeet	Temperature Controlled Fan Using Arduino Uno	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5, PO9,PO10,PO11, PO12, PSO1
						2102220310008	Alok Kumar				

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9	ECE	KEC -354	III	2022-23	G11	2102220310013	Gautam Negi	IOT Based Weather Monitoring System	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5, PO9,PO10,PO11, PO12, PSO1
						2102220310011	Bhumika Pal				
10	ECE	KEC -354	III	2022-23	G12	2102220310001	Adarsh	Gas Leakage Detector System	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5, PO9,PO10,PO11, PO12, PSO1
						2102220310009	Ashwin				
						2102220310006	Aditya Shankar				

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Marks Assessment sheet

Batch	2021-25
session	2022-23
Sub:	Mini Project
Code:	KEC 354
Methodology	

Benchmark		75%					
	Level 1	55% Students secure >75% marks				Points	1
	Level 2	65% Students secure > 75% marks				Points	2
	Level 3	75% Students secure > 75% marks				Points	3

Course Outcome (COs)	
CO-1	Identification of a project proposal which is relevant to the subject of engineering.
CO-2	Implement proposed project with estimated cost and time of completing the work.
CO-3	Demonstrate the project with its working.
CO-4	Demonstrate leadership with team and individual work whilst abiding by established norms of professional ethics.

S.No.	Roll No.	Name of the Students	Identification of Project (CO1)		Planning & Implementation of Project (CO2)		Demonstrate the project (CO3)		Team and Individual work (CO4)		Internal Marks
			10		20		10		10		
			Marks	>75% (Y/N)	Marks	>75% (Y/N)	Marks	>75% (Y/N)	Marks	>75% (Y/N)	
1	2102220310001	Aadarsh	9	Y	20	Y	10	Y	10	Y	49
2	2102220310002	Abhay Sharma	9	Y	19	Y	9	Y	19	Y	46
3	2102220310005	Aditya Rana	8	Y	16	Y	9	Y	9	Y	42
4	2102220310006	Aditya Shankar	9	Y	19	Y	10	Y	10	Y	48
5	2102220310007	Akmal Hussain	9	Y	16	Y	9	Y	9	Y	43
6	2102220310008	Alok Kumar Singh	7	N	17	Y	8	Y	9	Y	41

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7	2102220310009	Ashwin Yadav	9	Y	19	Y	9	Y	10	Y	47
8	2102220310010	Avinash A B Roy	9	Y	19	Y	10	Y	10	Y	48
9	2102220310011	Bhumika Pal	8	Y	17	Y	7	N	10	Y	42
10	2102220310012	Devraj Singh	10	Y	19	Y	10	Y	10	Y	49
11	2102220310013	Gautam Negi	7	N	18	Y	8	Y	10	Y	43
12	2102220310014	Harshit Raj	8	Y	17	Y	10	Y	10	Y	45
13	2102220310016	Md. Gulab Nabi	6	N	15	Y	9	Y	9	Y	39
14	2102220310018	Md Tausif Raja	5	N	14	N	9	Y	10	Y	38
15	2102220310021	Rakesh Kumar	10	Y	18	Y	9	Y	8	Y	45
16	2102220310022	Riya Chaudhary	8	Y	17	Y	8	Y	9	Y	42
17	2102220310023	Sahwag Raj	7	N	18	Y	9	Y	10	Y	44
18	2102220310024	Sahzaad Bhatti	8	Y	18	Y	10	Y	9	Y	45
19	2102220310026	Shushant	9	Y	19	Y	9	Y	9	Y	46
20	2102220310027	Siddharth Kumar	9	Y	19	Y	10	Y	10	Y	48
21	2102220310028	Sneha	8	Y	17	Y	8	Y	8	Y	41
22	2102220310029	Sonu Kumar	8	Y	16	Y	7	N	9	Y	40
	2102220310030	Urvesh Saifi	10	Y	19	Y	10	Y	10	Y	49
23	2202220319001	Abhijeet	7	N	15	Y	8	Y	8	Y	38
23	2202220319002	Rahul	9	Y	18	Y	10	Y	10	Y	47
Level Achievement			19		24		23		25		
CO Attainment			0.76		0.96		0.92		1.00		

	Identification of Project	Planning and Implementation of Project	Demonstrate the project.	Team & Individual work	Average	
CO1	0.76				0.76	
CO2		0.96			0.96	
CO3			0.92		0.92	
CO4				1.00	1.00	
Average Attainment					0.91	
Overall CO Attainment %					30.33	0.30


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CO & PO Mapping (Three Level : 3-Strongly Related , 2-Moderate, 1-Slightly)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	3	3	2	2				2	3	3		3	1	1
CO 2	3	3	3	3	3	2	2	2	3	3	3	3	3	3
CO 3	3	3	3	3	3		2	2	3	3		3	2	2
CO 4	3	3	3	3	3	3	3		3	3	2	3		
Average	3	3	2.75	2.75	3.00	2.50	2.33	2.00	3.00	3.00	2.50	3	2	2
CO & PO Attainment (Three Level : 3-Strongly Related , 2-Moderate, 1-Slightly)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	0.91	0.91	0.61	0.61				0.61	0.91	0.91		0.91	0.30	0.30
CO 2	0.91	0.91	0.91	0.91	0.91	0.61	0.61	0.61	0.91	0.91	0.91	0.91	0.91	0.91
CO 3	0.91	0.91	0.91	0.91	0.91		0.61	0.61	0.91	0.91		0.91	0.61	0.61
CO 4	0.91	0.91	0.91	0.91	0.91	0.91	0.91		0.91	0.91	0.61	0.91		
Achieved	0.91	0.91	0.83	0.83	0.91	0.76	0.71	0.61	0.91	0.91	0.76	0.91	0.61	0.61

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List of Mini Projects allotted in the end of II and IV Semester and Evaluated in II & V semesters. Mini projects should be on multi-disciplinary concept as far as possible. (Not more than three Students per Mini Project)

Department: ECE						Subject Code: KEC-554					
S. No.	Dept.	Program Code	Sem/Section	Session	Group	ROLL NO.	STUDENT NAME	PROJECT TITLE	Technology	GUIDE	PO/PSO Mapping
1	ECE	KEC -554	V	2022-23	G1	2002220310006	Divya Verma	Smart Home Automation System using Arduino	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5,PO9, PO10,PO11, PO12, PSO1
						2002220310002	Abhishek Yadav				
						1902220310047	Vivek Kumar				
2	ECE	KEC -554	V	2022-23	G2	2002220310001	Abhinav Kumar Kanth	Arduino Based Radar System for Detecting any object	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5,PO9, PO10,PO11, PO12, PSO1
						2002220310014	Prashant Kumar				
						2002220310012	Lokesh Bisht				
3	ECE	KEC -554	V	2022-23	G3	2002220310010	Kavita Yadav	Arduino Alarm System	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5,PO9, PO10,PO11, PO12, PSO1
						2002220310016	Rahul Raj				
						2002220310017	Raju Kumar				
4	ECE	KEC -554	V	2022-23	G4	2002220310003	Aman Pratap Singh	Car Parking system using Arduino	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5,PO9, PO10,PO11, PO12, PSO1
						2002220310007	Harshit Mishra				
						2002220310004	Ambika				
5	ECE	KEC -554	V	2022-23	G5	2002220310010	Kanchan	Traffic light controller system using arduino	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5,PO9, PO10,PO11, PO12, PSO1
						210220319001	Navdeep Thakur				
						210220319003	Prashant Kumar				
6	ECE	KEC -554	V	2022-23	G6	2002220310011	Komal Nagar	Arduino Based Radar System	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5,PO9, PO10,PO11, PO12, PSO1
						2002220310009	Kashish Solan				
9	ECE	KEC -554	V	2022-23	G9	2002220310020	Suman Kumar	Fire Alarm system using arduino	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5,PO9, PO10,PO11, PO12, PSO1
						2002220310021	Umesh Kumar				
						2002220310005	Ayush Raj				
10	ECE	KEC -554	V	2022-23	G10	2002220310022	Vikram Kumar Jha	Non touch Automation door open close system	IoT	Ms. Pragati Tripathi	PO1,PO2,PO3,PO5,PO9, PO10,PO11, PO12, PSO1
						2102220319002	Parveen				
						1902220310011	Deepak Mandal				


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Marks Assessment sheet

Batch	2020-24	
session	2022-23	
Sub:	Mini Project	
Code:	KEC 554	
Methodology		

Benchmark		75%					
	Level 1	55% Students secure > 75% marks				Points	1
	Level 2	65% Students secure > 75% marks				Points	2
	Level 3	75% Students secure > 75% marks				Points	3

Course Outcome (COs)	
CO-1	Identification of a project proposal which is relevant to the subject of engineering.
CO-2	Implement proposed project with estimated cost and time of completing the work.
CO-3	Demonstrate the project with its working.
CO-4	Demonstrate leadership with team and individual work whilst abiding by established norms of professional ethics.

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S.No.	Roll No.	Name of the Students	Identification of Project (CO1)		Planning & Implementation of Project (CO2)		Demonstrate the project (CO3)		Team and Individual work (CO4)		Internal Marks
			10		20		10		10		
			Marks	>75% (Y/N)	Marks	>75% (Y/N)	Marks	>75% (Y/N)	Grade	>75% (Y/N)	
1	2002220310001	ABHINAV KUMAR KANTH	8	Y	13	N	8	Y	9	Y	38
2	2002220310002	ABHISHEK YADAV	8	Y	18	Y	9	Y	10	Y	45
3	2002220310003	AMAN PRATAP SINGH	9	Y	18	Y	9	Y	9	Y	45

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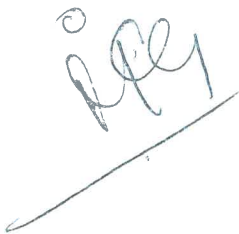
4	2002220310004	AMBIKA	10	Y	19	Y	10	Y	10	Y	49
5	2002220310005	AYUSH RAJ	7	N	14	N	7	N	6	N	34
6	2002220310006	DIVYA VERMA	10	Y	19	Y	10	Y	10	Y	49
7	2002220310007	HARSHIT MISHRA	9	Y	15	Y	8	Y	7	N	39
8	2002220310008	KANCHAN GUPTA 0 47	9	Y	19	Y	8	Y	7	N	43
9	2002220310009	KASHISH SOLAN	8	Y	17	Y	8	Y	8	Y	41
10	2002220310010	KAVITA YADAV	6	N	14	N	6	N	6	N	32
11	2002220310011	KOMAL NAGAR	8	Y	18	Y	7	N	7	N	40
12	2002220310012	LOKESH BISHT	9	Y	19	Y	9	Y	9	Y	46
13	2002220310014	PRASHANT KUMAR	8	Y	15	Y	8	Y	8	Y	39
14	2002220310016	RAHUL RAJ	8	Y	19	Y	9	Y	8	Y	44
15	2002220310017	RAJU KUMAR	6	N	12	N	6	N	6	N	30
16	2002220310020	SUMAN KUMAR	8	Y	17	Y	8	Y	8	Y	41
17	2002220310021	UMESH KUMAR	7	N	17	Y	8	Y	8	Y	40
18	2002220310022	VIKRAM KUMAR JHA	9	Y	19	Y	10	Y	9	Y	47
19	2102220319001	Navdeep Thakur	8	Y	18	Y	9	Y	9	Y	44
20	2102220319002	PARVEEN	10	Y	18	Y	9	Y	9	Y	46
21	2102220319003	PRASHANT KUMAR	9	Y	18	Y	9	Y	9	Y	45
22	1902220310001	AMIR AZAZ	7	N	14	N	6	N	8	Y	35
23	1902220310047	VIVEK KUMAR	8	Y	12	N	8	Y	7	N	35
Level Achievement			18		17		18		16		
CO Attainment			0.78		0.74		0.78		0.70		


	Identification of Project	Planning and Implementation of Project	Demonstrate the project.	Team & Individual	Average	
CO1	0.78				0.78	
CO2		0.74			0.74	
CO3			0.78		0.78	
CO4				0.70	0.70	
Average Attainment					0.75	
Overall CO Attainment %					25.00	0.25

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Pratibha

CO & PO Mapping (Three Level : 3-Strongly Related , 2-Moderate, 1-Slightly)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	3	3	2	2				2	3	3		3	1	1
CO 2	3	3	3	3	3	2	2	2	3	3	3	3	3	3
CO 3	3	3	3	3	3		2	2	3	3		3	2	2
CO 4	3	3	3	3	3	3	3		3	3	2	3		
Average	3	3	2.75	2.75	3.00	2.50	2.33	2.00	3.00	3.00	2.50	3	2	2
CO & PO Attainment (Three Level : 3-Strongly Related , 2-Moderate, 1-Slightly)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	0.75	0.75	0.50	0.50				0.50	0.75	0.75		0.75	0.25	0.25
CO 2	0.75	0.75	0.75	0.75	0.75	0.50	0.50	0.50	0.75	0.75	0.75	0.75	0.75	0.75
CO 3	0.75	0.75	0.75	0.75	0.75		0.50	0.50	0.75	0.75		0.75	0.50	0.50
CO 4	0.75	0.75	0.75	0.75	0.75	0.75	0.75		0.75	0.75	0.50	0.75		
Achieved	0.75	0.75	0.69	0.69	0.75	0.63	0.58	0.50	0.75	0.75	0.63	0.75	0.50	0.50


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Rubric -B.Tech Mini Project/ Internship Assessment (ITVV)[KEC752]

Statement: Review by the Industrial Training Coordinator: Ability to work in industrial environment, its challenges and work culture.

Expectation:--> Criteria	Excellent (100-90%)	Good (90-75%)	Fair (75-60%)	Average (60-40%)	Score
CO1: Viva-voce	<ul style="list-style-type: none"> • Good understanding of the relevance of the Industrial Training. • Extensive knowledge of domain • Technically sound and confident answers • Crisp to-the-point answers 	<ul style="list-style-type: none"> • Good understanding of the relevance of the Industrial Training. • Good knowledge of domain • Technically correct and confident answers • Crisp to-the-point answers 	<ul style="list-style-type: none"> • Good understanding of the relevance of the Industrial Training. • Average knowledge of domain • Technically correct and confident answers • Appropriate answers 	<ul style="list-style-type: none"> • Good understanding of the relevance of the Industrial Training. • Average knowledge of domain • Technically correct but not confident answers • Approximate nearby answers 	
CO2: Industrial Training Report	<ul style="list-style-type: none"> • Report as per prescribed format • All chapters arrange in sequence • No formatting issues. • Tables and Figures are clearly visible • The Content is well explanatory 	<ul style="list-style-type: none"> • Report as per prescribed format • All chapters arrange in proper sequence • Formatting issues. • Tables and Figures are not clearly visible • The Content is well explanatory 	<ul style="list-style-type: none"> • Report as per prescribed format • All chapters arrange not in proper sequence • Formatting issues. • Tables and Figures are not clearly visible • The Content is explanatory 	<ul style="list-style-type: none"> • Report not as per prescribed format • All chapters arrange not in proper sequence • Formatting issues. • Tables and Figures are not clearly visible • The Content is not well explanatory 	
CO3: Presentation	<ul style="list-style-type: none"> • Appropriate to the topic • Confident delivery style with clear voice • Contents of presentations are appropriate and well arranged • Good spoken English 	<ul style="list-style-type: none"> • Appropriate to the topic • Confident delivery style with not clear voice. • Contents of presentations are appropriate but not well arranged • Good spoken English 	<ul style="list-style-type: none"> • Appropriate to the topic • Confident delivery style with not clear voice • Contents of presentations are not appropriate and not well arranged • Average spoken English 	<ul style="list-style-type: none"> • Not appropriate to the topic • Confident delivery style with not clear voice • Contents of presentations are not appropriate and not well arranged • Average spoken English 	

CO4: Technical knowledge, awareness about the Industry and its work	<ul style="list-style-type: none"> Well defined problem with clear cut objectives and methodology Key concepts clearly specified and explained technically Results are relevant and presented in appropriate manner Work is well summarised and concluded 	<ul style="list-style-type: none"> Well defined problem with clear cut objectives and methodology Key concepts specified and explained technically Results are relevant but not presented in appropriate manner Work is well summarised and concluded 	<ul style="list-style-type: none"> Well defined problem but objectives and methodology not cleared. Key concepts specified and explained technically Results are relevant but not presented in appropriate manner Work is well summarised and concluded 	<ul style="list-style-type: none"> Well defined problem but objectives and methodology not cleared. Key concepts not specified Results are relevant but not presented in appropriate manner Work is not well summarised and concluded 	
	Total Score				

CO-1	Present your Skills in an effective manner with ethics.
CO-2	Understand the organisational structure of the industry and recognise the need of skill development.
CO-3	Understand how to write a successful training report
CO-4	Competence of acquiring and utilization of engineering principles in industrial application.

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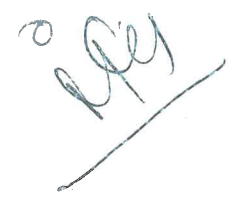
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I.T.S Engineering College, Greater Noida											
Department of Electronics & Communication Engineering											
Marks Assessment sheet											
Batch	2019-23										
session	2022-23										
Sub:	Mini Project/Internship assesment										
Code:	KEC 752										
Methodology		Benchmark		75%							
			Level 1	55% to 65% Students secure > 75% marks					Points	1	
			Level 2	65% to 75% Students secure > 75% marks					Points	2	
			Level 3	>75% Students secure > 75% marks					Points	3	

Course Outcome (COs)											
CO-1	Understand the organisational structure of the industry and recognise the need of skill development.										
CO-2	Understand how to write a successful training report										
CO-3	Present your Skills in an effective manner with ethics.										
CO-4	Competence of acquiring and applying fundamental engineering principles										
S.No.	Roll No.	Name of the Students	Viva-voce (CO1)		Industrial Training Report (CO2)		Presentation (CO3)		Technical knowledge, awareness about the Industry and its work (CO4)		Internal Marks
			10		10		10		20		
			Marks	>75% (Y/N)	Marks	>75% (Y/N)	Marks	>75% (Y/N)	Grade	>75% (Y/N)	
1	1902220310002	ADEEB KHAN	7	N	5	N	6	N	13	N	31
2	1902220310003	AINUL HASAN	9	Y	10	Y	10	Y	18	Y	47
3	1902220310004	AISHWARYA SENGAR	8	Y	8	Y	8	Y	14	Y	38
4	1902220310005	AJAY PRASAD	9	Y	10	Y	8	Y	16	Y	43
5	1902220310006	ANUSHREE BHUI	5	N	7	N	6	N	13	N	31


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6	1902220310007	AVINASH SINGH	5	N	7	N	8	Y	16	Y	36
7	1902220310008	AVIRAL VARSHNEY	5	N	8	Y	7	N	16	Y	36
8	1902220310009	AYUSH PATEL	7	N	6	N	5	N	13	N	31
9	1902220310010	BALRAJ SINGH	5	N	5	N	7	N	14	N	31
10	1902220310012	DEEPAK SHARMA	8	Y	8	Y	8	Y	17	Y	41
11	1902220310013	DHRUV GUPTA	8	Y	5	N	5	N	13	N	31
12	1902220310015	GOVIND KUMAR JHA	9	Y	9	Y	8	Y	15	Y	41
13	1902220310016	KSHAMA SHAKTI	6	N	8	Y	5	N	16	N	35
14	1902220310017	KSHITIJ UPMANYU	5	N	5	N	5	N	16	N	31
15	1902220310018	MADAN MOHAN KUMAR	8	Y	6	N	7	N	16	N	37
16	1902220310019	MD ADIL HUSSAIN	9	Y	10	Y	10	Y	18	Y	47
17	1902220310020	MOHD MUDASSIR	5	N	5	N	7	N	13	N	30
18	1902220310021	MD ARKAM	6	N	6	N	5	N	14	N	31
19	1902220310022	MUHAMMAD SAKIB	9	Y	10	Y	10	Y	16	Y	45
20	1902220310023	NAVEEN KUMAR GUPTA	8	Y	8	Y	5	N	16	N	37
21	1902220310025	PIYUSH BHARDWAJ	5	N	6	N	8	Y	16	N	35
22	1902220310026	PLAKSHI TOMAR	9	Y	9	Y	9	Y	16	Y	43
23	1902220310027	PRAGATI RAI	9	Y	8	Y	8	Y	17	Y	42
24	1902220310029	PRIYESH RAI	7	N	5	N	5	N	13	N	30
25	1902220310030	RAVI KUMAR SHAH	5	N	7	N	5	N	14	N	31
26	1902220310031	ROSHAN KUMAR	8	Y	8	Y	8	Y	16	Y	40
27	1902220310032	SACHIN	9	Y	10	Y	10	Y	16	Y	45
28	1902220310033	SACHIN KUMAR SINGH	9	Y	10	Y	10	Y	17	Y	46
29	1902220310034	SAUMYA	9	Y	10	Y	9	Y	16	Y	44
30	1902220310035	SAURAV BHARTI	9	Y	10	Y	10	Y	20	Y	49
31	1902220310036	SHAGUN BENIWAL	9	Y	10	Y	10	Y	20	Y	49
32	1902220310037	SHASHI KANT	9	Y	10	Y	10	Y	20	Y	49
33	1902220310038	SHASHWAT PANDEY	9	Y	10	Y	10	Y	20	Y	49
34	1902220310039	SHIVAM RAJPOOT	9	Y	10	Y	10	Y	20	Y	49
35	1902220310040	SIDDHI SINGH	6	N	7	N	8	Y	16	N	37
36	1902220310041	SONAL SOURAV	9	Y	10	Y	10	Y	16	Y	45
37	1902220310044	SUNIL KUMAR PATEL	9	Y	8	Y	8	Y	17	Y	42
38	1902220310045	SUYASH SHUKLA	8	Y	8	Y	8	Y	16	Y	40
39	1902220310046	UTKARSH SRIVASTAVA	8	Y	10	Y	10	Y	20	Y	48
40	2002220319003	RIYAZ AHMED BHAT	8	Y	8	Y	8	Y	17	Y	41
Level Achievement			26		26		26		25		
% ATTAINMENT			0.65		0.65		0.65		0.625		
			2		2		2		1		

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	Understand the Industry Requirements	Training Report after completion of Training	Presentat ion of Skill learned	Applying Fundamental Engineering Principles	Average	
CO1	2				2	
CO2		2			2	
CO3			2		2	
CO4				1	1	
Internal Average Attainment					1.75	
Overall CO Attainment %					58.3333	0.58333

CO & PO Mapping (Three Level : 3-Strongly Related , 2-Moderate, 1-Slightly)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	3		3	2	2	2		2	3	3	3	3	2	2
CO 2	3	2		3			2	2		3	2	2	2	2
CO 3	3	2		3			2	2	3	3		3	2	3
CO 4				3			3			3	3	3	2	2
Average	3	2	3	2.75	2	2	2.333	2	3	3	2.666667	2.75	2	2.25

CO & PO Attainment (Three Level : 3-Strongly Related , 2-Moderate, 1-Slightly)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	1.75		1.75	1.17	1.17	1.17		1.17	1.75	1.75	1.75	1.75	1.17	1.17
CO 2	1.75	1.17		1.75			1.17	1.17		1.75	1.17	1.17	1.17	1.17
CO 3	1.75	1.17		1.75			1.17	1.17	1.75	1.75		1.75	1.17	1.75
CO 4				1.75			1.75			1.75	1.75	1.75	1.17	1.17
Achieved	1.75	1.17	1.75	1.60	1.17	1.17	1.36	1.17	1.75	1.75	1.56	1.60	1.17	1.31


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Rubric -B.Tech Project [KEC753]

Statement:Review by the Project Coordinator: Ability to work for the Project, its challenges and application in industry.

Expectation:--> Criteria	Excellent (16-20)	Good (11-15)	Average (6-10)	Moderate (1-5)	Score	MAPPING WITH PSO's PO,
C1: Identification of Project Proposal	<ul style="list-style-type: none"> Detailed and extensive explanation of the purpose and need of the project Detailed and extensive explanation of the specifications and the limitations of the existing systems. All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified 	<ul style="list-style-type: none"> Good explanation of the purpose and need of the project. Collects a great deal of information and good study of the existing systems. Good justification to the objectives; Methodology to be followed is specified but detailing is not done. 	<ul style="list-style-type: none"> Average explanation of the purpose and need of the project. Average study of the existing systems; collects some basic information. Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives. 	<ul style="list-style-type: none"> Moderate explanation of the purpose and need of the project. Explanation of the specifications and the limitations of the existing systems not very satisfactory; limited information. Only some objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are not specified properly. 	—	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO12, PSO1, PSO2
C2: Design & Implementation	<ul style="list-style-type: none"> Division of problem into modules and good selection of computing framework Appropriate design methodology and properly justification Implementation of the design achieved Time frame properly specified and being followed 	<ul style="list-style-type: none"> Division of problem into modules and good selection of computing frame work Design methodology not properly justified Implementation done but not properly designed Time frame properly specified but being followed partly 	<ul style="list-style-type: none"> Division of problem into modules but in appropriate selection of computing frame work Design methodology not defined properly No implementation Time frame properly specified, but not being followed 	<ul style="list-style-type: none"> Partial division of problem into module sand inappropriate selection of computing frame work Design methodology not defined properly No implementation No Time frame not properly specified 	—	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2

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Greater Noida

C3: Team & Individual Work	<ul style="list-style-type: none"> Objectives achieved as per time frame Individual & Team Coordination & performance upto the mark. Followed appropriate distribution of work 	<ul style="list-style-type: none"> Objectives achieved as per timeframe Individually performed but less coordination team wise. Followed inappropriate distribution of work 	<ul style="list-style-type: none"> Objectives achieved as per time frame. Less individual nor team coordination. Followed appropriate un-even distribution of work. 	<ul style="list-style-type: none"> Objectives not achieved as per time frame. Neither individual nor team coordination. Followed in appropriate distribution of work. 		PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO9, PO10, PO12, PSO1, PSO2	
C4: Report & Presentation Skill	<ul style="list-style-type: none"> Report as per prescribed format. All chapters arranged in sequence. No formatting issues. Tables and Figures are clearly visible The Content is well explanatory. Contents of presentations are appropriate and well arranged. Proper eye contact with audience and clear voice with good spoken language. 	<ul style="list-style-type: none"> Report as per prescribed format. All chapters arranged in proper sequence. Formatting issues. Tables and Figures are not clearly visible The Content is well explanatory. Contents of presentations are appropriate but not well arranged. Satisfactory demonstration, clear voice with good spoken language but eye contact not proper. 	<ul style="list-style-type: none"> Report as per prescribed format. All chapters arranged not in proper sequence. Formatting issues. Tables and Figures are not clearly visible. The Content is less explanatory. Contents of presentations are appropriate but not well arranged. Eye contact with few people and unclear voice. 	<ul style="list-style-type: none"> Report not as per prescribed format. All chapters arranged not in proper sequence. Formatting issues. Tables and Figures are not clearly visible. The Content is not well explanatory. Contents of presentations are not appropriate. Demonstration not satisfactory. 		PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12, PSO1, PSO2	
Total Score						50	

Course Outcome (COs)

CO-1	Identification of a project proposal which is relevant to the subject of engineering and engage in state-of-art literature review to formulate an Engineering problem.
CO-2	Design and implement proposed project methodology with estimated cost of completing the work.
CO-3	Demonstrate leadership with team and individual work whilst abiding by established norms of Professional ethics.
CO-4	Effective Communication skills (Written, oral and presentation) to assimilate their project work.

R. Jayan
 Director
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 Greater Noida

Shyam *P. P. P.*

I.T.S Engineering College, Greater Noida
Department of Electronics & Communication Engineering

Marks Assessment sheet

Batch	2019-23	
Session	2022-23	
Sub:	Project	
Code:	KEC 753	
Methodology		

Benchmark		75%	
Level 1	55% to 65% Students secure > 75% marks	Points	1
Level 2	65% to 75% Students secure > 75% marks	Points	2
Level 3	>75% Students secure > 75% marks	Points	3

Course Outcome (COs)		Bloom Level
CO-1	Identification of a project proposal which is relevant to the subject of engineering and engage in state-of-art literature review to formulate an Engineering problem.	L2
CO-2	Design and implement proposed project methodology with estimated cost of completing the work.	L4
CO-3	Demonstrate leadership with team and individual work whilst abiding by established norms of Professional ethics.	L4
CO-4	Effective Communication skills (Written, oral and presentation) to assimilate their project work.	L3



S.No.	Roll No.	Name of the Students	Identification of Project Proposal (CO1)		Design & Implementation (CO2)		Team & Individual Work (CO3)		Report & Presentation Skill (CO4)		Internal Marks
			30		40		50		150		
			Marks	>75% (Y/N)	Marks	>75% (Y/N)	Marks	>75% (Y/N)	Grade	>75% (Y/N)	
1	1902220310002	ADEEB KHAN	23	Y	25	Y	36	Y	45	Y	129
2	1902220310003	AINUL HASAN	27	Y	27	Y	38	Y	46	Y	138
3	1902220310004	AISHWARYA SENGAR	17	N	19	N	25	N	30	N	91
4	1902220310005	AJAY PRASAD	19	N	19	N	26	N	31	N	95
5	1902220310006	ANUSHREE BHUI	19	N	19	N	25	N	32	N	95
6	1902220310007	AVINASH SINGH	20	N	20	N	24	N	29	N	93
7	1902220310008	AVIRAL VARSHNEY	20	N	20	N	20	N	30	N	90
8	1902220310009	AYUSH PATEL	23	Y	23	Y	26	N	37	N	109
9	1902220310010	BALRAJ SINGH	19	N	19	N	23	N	30	N	91
10	1902220310012	DEEPAK SHARMA	23	Y	19	N	30	Y	40	Y	112
11	1902220310013	DHRUV GUPTA	23	Y	23	Y	28	N	35	N	109
12	1902220310015	GOVIND KUMAR JHA	25	Y	27	Y	35	Y	45	Y	132
13	1902220310016	KSHAMA SHAKTI	23	Y	23	Y	38	Y	45	Y	129
14	1902220310017	KSHITIJ UPMANYU	19	N	20	N	25	N	30	N	94

Signature

15	1902220310018	MADAN MOHAN KUMAR	25	Y	26	Y	38	Y	46	Y	135
16	1902220310019	MD ADIL HUSSAIN	28	Y	26	Y	36	Y	43	Y	133
17	1902220310020	MOHD MUDASSIR	23	Y	23	Y	28	N	38	Y	112
18	1902220310021	MD ARKAM	26	Y	25	Y	28	N	45	Y	124
19	1902220310022	MUHAMMAD SAKIB	23	Y	24	Y	25	N	38	Y	110
20	1902220310023	NAVEEN KUMAR GUPTA	25	Y	26	Y	34	Y	44	Y	129
21	1902220310025	PIYUSH BHARDWAJ	20	N	20	N	25	N	30	N	95
22	1902220310026	PLAKSHI TOMAR	24	Y	23	Y	36	Y	48	Y	131
23	1902220310027	PRAGATI RAI	26	Y	27	Y	35	Y	45	Y	133
24	1902220310029	PRIYESH RAI	20	N	20	N	20	N	30	N	90
25	1902220310030	RAVI KUMAR SHAH	27	Y	28	Y	32	Y	44	Y	131
26	1902220310031	ROSHAN KUMAR	25	Y	23	Y	36	Y	48	Y	132
27	1902220310032	SACHIN	25	Y	25	Y	36	Y	48	Y	134
28	1902220310033	SACHIN KUMAR SINGH	25	Y	24	Y	38	Y	45	Y	132
29	1902220310034	SAUMYA	27	Y	26	Y	35	Y	48	Y	136
30	1902220310035	SAURAV BHARTI	20	N	20	N	20	N	30	N	90
31	1902220310036	SHAGUN BENIWAL	28	Y	26	Y	31	Y	43	Y	128
32	1902220310037	SHASHI KANT	23	Y	22	N	27	N	38	Y	110
33	1902220310038	SHASHWAT PANDEY	29	Y	29	Y	38	Y	49	Y	145
34	1902220310039	SHIVAM RAJPOOT	23	Y	23	Y	30	Y	39	Y	115
35	1902220310040	SIDDHI SINGH	23	Y	23	Y	31	Y	45	Y	122
36	1902220310041	SONAL SOURAV	25	Y	25	Y	37	Y	48	Y	135
37	1902220310044	SUNIL KUMAR PATEL	26	Y	28	Y	34	Y	40	Y	128
38	1902220310045	SUYASH SHUKLA	25	Y	25	Y	32	Y	40	Y	122
39	1902220310046	UTKARSH SRIVASTAVA	26	Y	28	Y	38	Y	48	Y	140
40	2002220319003	RIYAZ AHMED BHAT	26	Y	25	Y	37	Y	46	Y	134
Level Achievement			30		28		24		28		
% ATTAINMENT			0.75		0.70		0.60		0.70		


	Identification of Project Poroposal	Design & Implementation	Team & Individual Work	Report & Presentation Skill	Average	
CO1	3.00				3.00	
CO2		2.00			2.00	
CO3			1.00		1.00	
CO4				2.00	2.00	
Internal Average Attainment					2.00	
Overall CO Attainment %					66.67	0.67


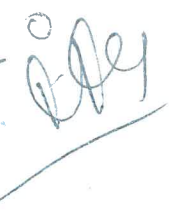

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CO & PO Mapping (Three Level : 3-Strongly Related , 2-Moderate, 1-Slightly)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	3	2	2	2		2	1				2		1	
CO 2		1	2	2	3								1	2
CO 3		1	2	2	3			3	3				1	2
CO 4		3		1						3		2		2
Average	3	1.75	2.00	1.75	3.00	2.00	1.00	3.00	3.00	3.00	2.00	2	1	2

CO & PO Attainment (Three Level : 3-Strongly Related , 2-Moderate, 1-Slightly)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	2.00	1.33	1.33	1.33		1.33	0.67				1.33		0.67	
CO 2		0.67	1.33	1.33	2.00								0.67	1.33
CO 3		0.67	1.33	1.33	2.00			2.00	2.00				0.67	1.33
CO 4		2.00		0.67						2.00		1.33		1.33
Achieved	2.00	1.17	1.33	1.17	2.00	1.33	0.67	2.00	2.00	2.00	1.33	1.33	0.67	1.33


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Rubric -B.Tech Project [KEC85]

Statement:Review by the Project Coordinator: Ability to work for the Project, its challenges and application in industry.


Expectation:--> Criteria	Excellent (20)	Good (15)	Average (10)	Moderate (5)	Score	MAPPING WITH PO, PSO's
C1: Implementation & Demonstration	<ul style="list-style-type: none"> • Study of existing papers/projects and their author's work • Study of Existing S/W and H/W required for project work • Implementation of the design achieved • Each module working well and properly demonstrated • All modules of project are well integrated and system working is accurate 	<ul style="list-style-type: none"> • Study of existing papers/projects and their author's work • Study of Existing S/W and H/W required for project work • Implementation done but not properly designed • Each module working well and properly demonstrated • Integration of all modules not done, and system working is not very satisfactory 	<ul style="list-style-type: none"> • Study of existing papers/projects and their author's work • Clearly not identified the appropriate S/W and H/W • No implementation • Modules are working well in isolation and properly demonstrated • Modules of project are not properly integrated 	<ul style="list-style-type: none"> • Not well study of existing projects work • Not appropriate select S/W and H/W • No implementation • Modules are not in proper working form that further lead to failure of integrated system 		PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
C2: Research Paper Publication and Presentation	<ul style="list-style-type: none"> • Research paper published in reputed Conference/ Journal • Attended or presented their work in conferences • Well-presented and Proper eye contact with audience • Clear voice with good spoken language 	<ul style="list-style-type: none"> • Research paper published in reputed Conference/ Journal • Not Attended or presented their work in conferences • Satisfactory presentation • Eye contact not proper • Clear voice with less good spoken language 	<ul style="list-style-type: none"> • No Research paper published in reputed Conference/ Journal • Attended but not presented their work in conferences • Presentation not very Satisfactory • Eye contact with few people and unclear voice 	<ul style="list-style-type: none"> • No Research paper published in reputed Conference/ Journal • Neither attended nor presented their work in conferences • Presentation very poor • No eye Contact neither clear voice 		PO1, PO2, PO3, PO4, PO5, PO7, PO9, PO10, PO12, PSO1, PSO2


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C3: Project Report and Team Work	<ul style="list-style-type: none"> • Report as per prescribed format • All chapters arrange in sequence • No formatting issues. • Tables and Figures are clearly visible • The Content is well explanatory • Proper Team coordination 	<ul style="list-style-type: none"> • Report as per prescribed format • All chapters arrange in proper sequence • Formatting issues. • Tables and Figures are not clearly visible • The Content is well explanatory • Satisfactory Team Coordination 	<ul style="list-style-type: none"> • Report as per prescribed format • All chapters arrange not in proper sequence • Formatting issues. • Tables and Figures are not clearly visible • The Content is explanatory • Team Coordination not very good 	<ul style="list-style-type: none"> • Report not as per prescribed format • All chapters arrange not in proper sequence • Formatting issues. • Tables and Figures are not clearly visible • The Content is not well explanatory • Poor Team Coordination 		PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO12, PSO1, PSO2
	Total Score					50


Course Outcome (COs)	
CO-1	Analyse and interpret the results of experiments conducted on designed solution(s) for the identified engineering problem.
CO-2	Demonstrate a working model, prototype, proof of concept or technical innovation through effective oral communication.
CO-3	Independently engage in study of literature and assimilate a state of art literature review to formulate an Engineering problem.
CO-4	Identify mathematical, Scientific, Engineering and Management concepts and tools necessary to solve the formulated problem.
CO-5	Present a written record of the work in the form of a project report, poster, conference, or research paper.
CO-6	Demonstrate teamwork, leadership and mentorship whilst abiding by established norms of professional ethics.




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Department of Electronics & Communication Engineering									
Marks Assessment sheet									
Batch	2019-23								
Session	2022-23								
Sub:	Project								
Code:	KEC 851								
Methodology									
		Benchmark		75%					
		Level 1	55% to 65% Students secure > 75% marks			Points	1		
		Level 2	65% to 75% Students secure > 75% marks			Points	2		
		Level 3	>75% Students secure > 75% marks			Points	3		

Course Outcome (COs)		Bloom Level
CO-1	Analyse and interpret the results of experiments conducted on designed solution(s) for the identified engineering problem.	L4
CO-2	Demonstrate a working model, prototype, proof of concept or technical innovation through effective oral communication.	L4
CO-3	Independently engage in study of literature and assimilate a state of art literature review to formulate an Engineering problem.	L2
CO-4	Presentation and communication of created work effectively in context of societal, environmental and industrial need.	L5
CO-5	Present a written record of the work in the form of a project report, poster, conference or research paper.	L3
CO-6	Demonstrate team work, leadership and mentor-ship whilst abiding by established norms of professional ethics.	L4


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Presentation-1											
S.No.	Roll No.	Name of the Students	Implementation & Presentation (CO1 & CO2)		Research Paper Publication and Presentation (CO3 & CO4)		Project Report (CO5 & CO6)		Internal Marks	External marks	
			30		30		40		100	300	
			Grade	>75% (Y/N)	Grade	>75% (Y/N)	Grade	>75% (Y/N)		Grade	>75% (Y/N)
1	1902220310002	ADEEB KHAN	23	Y	23	Y	29	N	75	238	Y
2	1902220310003	AINUL HASAN	27	Y	26	Y	36	Y	89	258	Y
3	1902220310004	AISHWARYA SENGAR	23	Y	23	Y	24	N	70	235	Y
4	1902220310005	AJAY PRASAD	23	Y	21	N	27	N	71	240	Y
5	1902220310006	ANUSHREE BHUI	23	Y	23	Y	31	Y	77	245	Y
6	1902220310007	AVINASH SINGH	23	Y	23	Y	28	N	74	235	Y
7	1902220310008	AVIRAL VARSHNEY	20	N	20	N	25	N	65	225	Y
8	1902220310009	AYUSH PATEL	23	Y	25	Y	31	Y	79	250	Y
9	1902220310010	BALRAJ SINGH	20	N	20	N	30	Y	70	225	Y
10	1902220310012	DEEPAK SHARMA	23	Y	23	Y	25	N	71	232	Y
11	1902220310013	DHRUV GUPTA	23	Y	22	N	31	Y	76	248	Y
12	1902220310015	GOVIND KUMAR JHA	25	Y	24	Y	30	Y	79	245	Y
13	1902220310016	KSHAMA SHAKTI	24	Y	23	Y	30	Y	77	252	Y
14	1902220310017	KSHITIJ UPMANYU	23	Y	23	Y	29	N	75	242	Y
15	1902220310018	MADAN MOHAN KUMAR	23	Y	23	Y	31	Y	77	255	Y
16	1902220310019	MD ADIL HUSSAIN	23	Y	23	Y	35	Y	81	260	Y
17	1902220310021	MD ARKAM	23	Y	23	Y	33	Y	79	248	Y
18	1902220310020	MOHD MUDASSIR	23	Y	22	N	30	Y	75	248	Y
19	1902220310022	MUHAMMAD SAKIB	25	Y	22	N	30	Y	77	244	Y
20	1902220310023	NAVEEN KUMAR GUPTA	20	N	25	Y	30	Y	75	235	Y
21	1902220310025	PIYUSH BHARDWAJ	20	N	20	N	36	Y	76	247	Y
22	1902220310026	PLAKSHI TOMAR	23	Y	23	Y	29	N	75	260	Y
23	1902220310027	PRAGATI RAI	24	Y	25	Y	30	Y	79	258	Y
24	1902220310029	PRIYESH RAI	15	N	15	N	20	N	50	AB	N
25	1902220310030	RAVI KUMAR SHAH	22	N	23	Y	30	Y	75	248	Y
26	1902220310031	ROSHAN KUMAR	23	Y	23	Y	33	Y	79	258	Y
27	1902220310032	SACHIN	24	Y	23	Y	30	Y	77	240	Y
28	1902220310033	SACHIN KUMAR SINGH	22	N	23	Y	30	Y	75	235	Y
29	1902220310034	SAUMYA	24	Y	24	Y	34	Y	82	245	Y
30	1902220310035	SAURAV BHARTI	23	N	15	N	20	N	50	AB	N
31	1902220310036	SHAGUN BENIWAL	23	Y	22	N	30	Y	75	265	Y
32	1902220310037	SHASHI KANT	23	Y	20	N	30	Y	73	233	Y
33	1902220310038	SHASHWAT PANDEY	28	Y	25	Y	37	Y	90	270	Y
34	1902220310039	SHIVAM RAJPOOT	23	Y	23	Y	29	N	75	242	Y

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35	1902220310040	SIDDHI SINGH	23	Y	20	N	27	N	70	230	Y
36	1902220310041	SONAL SOURAV	25	Y	23	Y	35	Y	83	265	Y
37	1902220310044	SUNIL KUMAR PATEL	23	Y	23	Y	29	N	75	238	Y
38	1902220310045	SUYASH SHUKLA	20	N	20	N	30	Y	70	245	Y
39	1902220310046	UTKARSH SRIVASTAVA	27	Y	26	Y	37	Y	90	268	Y
40	2002220319003	RIYAZ AHMAD BHAT	25	Y	24	Y	30	Y	79	245	Y
Level Achievement			31		27		27			38	
% TARGET LEVEL			0.78		0.68		0.68			1.00	
CO ATTAINMENT			3		2		2			3	

	Implementation & Presentation	Research Paper Publication and Presentation	Project Report	Average	
CO1	3.00			3.00	
CO2	3.00			3.00	
CO3		2.00		2.00	
CO4		2.00		2.00	
CO5			2.00	2.00	
CO6			2.00	2.00	
Internal Average Attainment				2.34	
University Attainment Value				3	
Overall Direct CO Attainment				2.802	
Overall CO Attainment %				93.40	0.93


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CO & PO Mapping (Three Level : 3-Strongly Related , 2-Moderate, 1-Slightly)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	1	2	2	3		2	3				2		1	2
CO 2	3		1	2				1					3	2
CO 3		1	2	2	3						3	1	2	
CO 4			2			3	2						1	3
CO 5		2	3	2				2	3	2			2	2
CO 6		3		1						3		2		2
Average	2.00	2.00	2.00	2.00	3.00	2.50	2.50	1.50	3.00	2.50	2.50	1.50	1.60	2.25

CO & PO Attainment (Three Level : 3-Strongly Related , 2-Moderate, 1-Slightly)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	0.63	1.27	1.27	1.90		1.27	1.90				1.27		0.63	
CO 2	1.90		0.63	1.27				0.63					1.90	1.27
CO 3		0.63	1.27	1.27	1.90								0.63	1.27
CO 4			1.27			1.90	1.27				1.90	0.63	1.27	
CO 5		1.27	1.90	1.27				1.27	1.90	1.27			0.63	1.90
CO 6		1.90		0.63						1.90		1.27		1.27
Achieved	1.27	1.27	1.27	1.27	1.90	1.58	1.58	0.95	1.90	1.58	1.58	0.95	1.01	1.01

Handwritten signatures and initials in blue ink.

Director
 ITS Engineering College
 Greater Noida