



Year: I
Semester: II

6. Name of the Faculty: _____ Course Code: GEE14004
7. Course : SEC B L: 0
8. Program : B.Tech T: 0
9. Target : 60% P: 2
C: 2

LABORATORY COURSE FILE CONTENTS

Check list Course Outcomes Attainment

S. No.	Contents	Available (Y/N/NA)	Date of Submission	Signature of HOD
1.	Authenticated Syllabus Copy	Y	20.04.2021	
2.	Individual Time Table	Y		
3.	Students' Name List (Approved Copy)	Y		
4.	Course Plan, PO, PSO, COs, CO-PO Mapping, COA Plan, Session Plan and Periodic Monitoring	Y		
5.	Rubrics for Assessment of Laboratory Experiments	Y		
6.	Lab Manual / Lab Learning Materials a) List of Experiments (Cycle I & Cycle II) b) Detailed Procedure for Experiments & Field Applications c) Viva-Voce Questions d) Smart Lab Experiments if any	NA		
7.	Dissemination of Syllabus and Course Plan to the Students	Y		
8.	Continuous Assessment A. Laboratory Observation B. Laboratory Records C. Evaluation Sheet with Rubrics D. Slow Learners List and Remedial Measures			
9.	Course End Survey (Indirect Assessment) & Consolidation			
10.	End Term Examination A. Question Paper B. Sample Answer Scripts (Best, Average, Poor) if available C. Evaluation Sheet with Rubrics D. Slow Learners List and Remedial Measures.			
11.	Content Beyond the Syllabus (Proof)			
12.	Innovative Teaching Tools Used			
13.	Consolidated Mark Statement			



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

14.	CO Attainment (Continuous Assessment + End Term)			
15.	Gap Analysis & Remedial Measures			
16.	CO - PO Attainment			
17.	Class Record (Faculty Logbook)			

Signature of HOD/ Dean

Signature of Faculty

Date:

Date:



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

GEE14004	Capstone Project-II	L	T	P	C
Version 1.0		0	0	2	2
Pre-requisites/Exposure	Capstone Project I				
Co-requisites	--				

Syllabus Copy

Course Objectives

1. To provide design experience to the students through team work.
2. To develop an understanding of various areas involved in any project.
3. To train students with various project dealing areas like feasibility, communications, planning, design, deployment and testing.

Course Content

Unit I:

10 Lecture Hours

Geometry and Mechanics: Transformations, Rotations, Euler Angles, Axis/Angle Representations for Rotations, Angular Velocity, Rigid-Body Displacements, Properties of Functions, Symbolic Calculations in Matlab, The atan2 Function, Eigenvalues and Eigenvectors of Matrices, Quaternions, Matrix Derivative, Skew-Symmetric Matrices and the Hat Operator, Formulation, Newton-Euler Equations, Principal Axes and Principal Moments of Inertia, Quadrotor Equations of Motion, State-Space Form, Getting Started With the First Programming Assignment.

Unit II:

10 Lecture Hours

EV System, Parameters and Propulsion:

EV Configuration: Fixed & variable gearing, single & multiple motor drive, In-wheel drives, Weight, size, force, energy & performance parameters.

Electric Motor: Choice of electric propulsion system, block diagram of EV propulsion system, concept of EV Motors, single motor and multi-motor configurations, fixed & variable geared transmission, In-wheel motor configuration, classification of EV motors, Electric motors used in current vehicle applications, Recent EV Motors, Comparison of Electric Motors for EV applications.

Required Power Electronics & Control: Comparison of EV power devices, introduction to power electronics converter, four quadrant DC chopper, three-phase full bridge voltage-fed inverter, soft switching



Year: I
Semester: II

6. Name of the Faculty:		Course Code: GEE14004
7. Course	: SEC B	L: 0
8. Program	: B.Tech	T: 0
9. Target	: 60%	P: 2
		C: 2

EV converters, comparison of hard-switching and soft-switching converter, three-phase voltage-fed resonance dc link inverter, Basics of Microcontroller & Control Strategies.

Unit III: 10 Lecture Hours

Smart Urban Energy System: Energy infrastructure layer, energy services layer, planning, maintenance, operations, Emerging Information and communication Technology (ICT), Innovation stages and innovation in energy technologies, Energy Innovation: from Shale gas to solar power, Role of regulation and policies in smart energy technologies.

Text Books:

Reference Books:

Web Resources:

Journals:



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

Faculty Individual Time Table

ADAMAS UNIVERSITY, KOLKATA								
SCHOOL OF ENGINEERING AND TECHNOLOGY								
DEPARTMENT OF ELECTRICAL ENGINEERING								
Programme: B.Tech								
Course Code & Course: GEE14004 & Capstone Project-II Faculty Coordinator:								
Day & Time	10.30 - 11.20	11.20 - 12.10	12.10 - 01.00	01.00 - 01.50	01.50 - 02.40	02.40 - 03.30	03.30 - 04.20	04.20 - 05.10
Monday	-			LU NC H				
Tuesday	-		-					
Wednesday	-							
Thursday	-				-			-
Friday	-	-	-		-			

Signature of HOD

Signature of Class Coordinator

Date:

Date:



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

Students Name List

Roll Number	Registration Number	Name of the Student
UG/02/BTBIOME/2020/002	AU/2020/0004600	Ravi Lal
UG/02/BTBIOME/2020/008	AU/2020/0005281	Gaurav Gain
UG/02/BTBIOME/2020/003	AU/2020/0005498	Soumyadeep Samaddar
UG/02/BTBIOME/2020/004	AU/2020/0005499	Spandan Bhattachaarya
UG/02/BTCE/2020/003	AU/2020/0004536	Arjya Das
UG/02/BTCE/2020/002	AU/2020/0004463	Rohit Kumar Shit
UG/02/BTCSE/2020/002	AU/2020/0004275	Sunanda Jana
UG/02/BTCSE/2020/009	AU/2020/0004466	Ritushna Roy
UG/02/BTCSE/2020/032	AU/2020/0004540	Md Alnas Hossain
UG/02/BTCSE/2020/035	AU/2020/0004565	Nikhil Kumar Jha
UG/02/BTCSE/2020/041	AU/2020/0004580	Raja Banik
UG/02/BTCSE/2020/042	AU/2020/0004583	Arshad Raja
UG/02/BTCSE/2020/046	AU/2020/0004593	Hritik Kumar Dutta
UG/02/BTCSE/2020/047	AU/2020/0004596	Shiuli Mahata
UG/02/BTCSE/2020/012	AU/2020/0004472	Sougata Dutt
UG/02/BTCSE/2020/018	AU/2020/0004479	Protyush Kr Chatterjee
UG/02/BTCSE/2020/033	AU/2020/0004549	Vivek Raj
UG/02/BTCSE/2020/034	AU/2020/0004562	Soyata Saha
UG/02/BTCSE/2020/003	AU/2020/0004276	Supratim Tarun Nath
UG/02/BTCSE/2020/027	AU/2020/0004529	Atanu Pramanick
UG/02/BTCSE/2020/028	AU/2020/0004530	Ayan Kumar Das
UG/02/BTCSE/2020/007	AU/2020/0004462	Suraj Majumder
UG/02/BTCSE/2020/011	AU/2020/0004468	Prima Giri
UG/02/BTCSE/2020/004	AU/2020/0004451	Abhipsit Bhattacharjee
UG/02/BTCSE/2020/008	AU/2020/0004464	Arkadeep Chatterjee
UG/02/BTCSE/2020/022	AU/2020/0004494	Indranil Das
UG/02/BTCSE/2020/052	AU/2020/0005542	Anirban Roy
UG/02/BTCSE/2020/036	AU/2020/0004569	Nandini Roy
UG/02/BTCSE/2020/001	AU/2020/0004250	Alok Dutta
UG/02/BTCSEAIML/2020/006	AU/2020/0004557	Soumyadwip Maity
UG/02/BTCSEAIML/2020/009	AU/2020/0004563	Rohit Kumar Roy
UG/02/BTCSEAIML/2020/013	AU/2020/0004578	Md Sohail Irfan



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

UG/02/BTCSEAIML/2020/011	AU/2020/0004572	Subarna Bhowmik
UG/02/BTCSEAIML/2020/015	AU/2020/0004588	Chandrachur Majhi
UG/02/BTCSECSF/2020/006	AU/2020/0004587	Sabyasachi Paul
UG/02/BTECE/2020/001	AU/2020/0004465	Arya Paul
UG/02/BTECE/2020/002	AU/2020/0004486	Utsab Bose
UG/02/BTECE/2020/004	AU/2020/0004566	Rohit Raj Halder
UG/02/BTEE/2020/002	AU/2020/0004560	Arka Jyoti Das
UG/02/BTEE/2020/001	AU/2020/0004481	Saptarshi Bhattacharjee
UG/02/BTME/2020/001	AU/2020/0004471	Suman Hait
UG/02/BTME/2020/002	AU/2020/0004484	Koushik Ghosh
UG/02/BTME/2020/005	AU/2020/0004555	Reetam Mondal
UG/02/BTME/2020/004	AU/2020/0004495	Rakesh Kumar Mozumder

Signature of HOD/Dean

Signature of Class Coordinator

Date:

Date:



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

COURSE PLAN

Target	60% (marks)
Level-1	50% (population)
Level-2	60% (population)
Level-3	70% (population)

1. Method of Evaluation

UG	PG
Continuous Assessment (50%)	Continuous Assessment (50%)
End Semester Examination (50%)	End Semester Examination (50%)

*Keep as per Program (UG/PG)

2. Passing Criteria

Scale	PG	UG
Out of 10 Point Scale	CGPA – “5.00” Min. Individual Course Grade – “C” Passing Minimum – 40	CGPA – “5.00” Min. Individual Course Grade – “C” Passing Minimum – 35

*Keep as per Program (UG/PG)

3. Pedagogy

- Direct Instruction
- Kinesthetic Learning
- Flipped Classroom
- Differentiated Instruction
- Expeditionary Learning
- Inquiry Based Learning
- Game Based Learning
- Personalized Learning

4. Topics introduced for the first time in the program through this course

- (New Experiments Introduced & Content Beyond Syllabus)

5. References:

Text Books	Web resources	Journals	Reference books



Year: I

Semester: II

6. Name of the Faculty:

7. Course : SEC B

8. Program : B.Tech

9. Target : 60%

Course Code: GEE14004

L: 0

T: 0

P: 2

C: 2

Signature of HOD/Dean

Signature of Faculty

Date:

Date:



Year: I
Semester: II

6. Name of the Faculty:		Course Code: GEE14004
7. Course	: SEC B	L: 0
8. Program	: B.Tech	T: 0
9. Target	: 60%	P: 2
		C: 2

GUIDELINES TO STUDY THE SUBJECT

Instructions to Students:

1. Go through the 'Syllabus' in the LMS in order to find out the Reading List.
2. Get your schedule and try to pace your studies as close to the timeline as possible.
3. Get your on-line SmartLab videos section. Make sure you use them during this course.
4. check your LMS regularly
5. go through study material
6. check mails and announcements on blackboard
7. keep updated with the posts, assignments and examinations which shall be conducted on the blackboard
8. Be regular, so that you do not suffer in any way
9. **Cell Phones and other Electronic Communication Devices:** Cell phones and other electronic communication devices (such as Blackberries/Laptops) are not permitted in classes during Tests or the Mid/Final Examination. Such devices MUST be turned off in the class room.
10. **E-Mail and online learning tool:** Each student in the class should have an e-mail id and a pass word to access the LMS system regularly. Regularly, important information – Date of conducting class tests, guest lectures, via online learning tool. The best way to arrange meetings with us or ask specific questions is by email and prior appointment. All the assignments preferably should be uploaded on online learning tool. Various research papers/reference material will be mailed/uploaded on online learning platform time to time.
11. **Attendance:** Students are required to have minimum attendance of 75% in each subject. Students with less than said percentage shall NOT be allowed to appear in the end semester examination.

This much should be enough to get you organized and on your way to having a great semester! If you need us for anything, send your feedback through e-mail XXX@adamasuniversity.ac.in Please use an appropriate subject line to indicate your message details.

There will no doubt be many more activities in the coming weeks. So, to keep up to date with all the latest developments, please keep visiting this website regularly.



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

RELATED OUTCOMES

1. The expected outcomes of the Program are:

PO1	Engineering Knowledge: Apply the knowledge of mathematics, science, engineering Fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem Analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/ Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
PO6	The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and Sustainability: Understand the impact of professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: Communicate effectively in complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and multidisciplinary environments.
PO12	Life-Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



Course Code: GEE14004

$$L = 0$$

T: 0

P: 2

C: 2

PSO1	Engage in analysis and design of various power system components and their applications in the field of Electrical Engineering.
PSO2	Apply the domain knowledge of Electrical Engineering to solve problems for development of society, and/ or pursue higher education and research.
PSO3	Engage in lifelong learning and adapt to changing professional and societal needs.

CO1	Outline of derivation of the dynamic equations of motion for quadrotors.
CO2	Identify appropriate motor and converter for EV applications.
CO3	Summarize the energy management system of smart cities.

Indicate the relationships by 1- Slight (Low) 2- Moderate (Medium) 3-Substantial (High)

[illegible]



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

5. Course Outcomes Assessment Plan (COA):

Course Outcomes	Continuous Assessment* (50 Marks)		End Term Exam (50 Marks)	Total (100 Marks)
	Cycle I	Cycle II		
C01	10	NA	23	33
C02	10	15	10	35
C03	NA	15	17	32
Total	20	30	50	100

* Internal Assessment – Continuous Assessment



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

OVERVIEW OF COURSE PLAN OF COURSE COVERAGE

Course Activities:

S. No.	Description	Planned			Actual			Remarks
		From	To	No. of Session	From	TO	No. of Session	
1.	Cycle I Experiments	05/04/2021	19/05/2021	6				
2.	Cycle II Experiments	22/05/2021	25/07/2021	9				

Total No. of Instructional periods available for the course: ____ Sessions

Signature of HOD/Dean

Signature of Faculty

Date:

Date:



Year: I

Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

SESSION PLAN

Session Plan				Actual Delivery			
Exp.	Date	Topics to be Covered	CO Mapped	Exp.	Date	Topics Covered	CO Achieved
1	07/04/2021	Geometry Regarding Aerial Robotics- I	CO1				
2	21/04/2021	Geometry Regarding Aerial Robotics- II	CO1				
3	28/04/2021	Mathematical calculations Regarding Aerial Robotics	CO1				
4	05/05/2021	Quadrotor Equations of Motion	CO1				
5	12/05/2021	Getting Started With Programming in MATLAB	CO1				
6	19/05/2021	EV Configuration - basics	CO2				

Cycle-I

Remarks:

Signature of Faculty

Date:



Year: I

Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

SESSION PLAN

Cycle-II

Session Plan				Actual Delivery			
Exp.	Date	Topics to be Covered	CO Mapped	Exp.	Date	Topics Covered	CO Achieved
1	26/05/2021	Electric Propulsion System	CO2				
2	02/06/2021	In-wheel motor configuration	CO2				
3	09/06/2021	Required Power Electronics & Control	CO2				
4	16/06/2021	Comparison of EV power devices	CO2				
5	23/06/2021	Smart Urban Energy System	CO3				
6	30/06/2021	Energy infrastructure layer	CO3				
7	07/07/2021	Emerging Information and communication Technology (ICT)	CO3				
8	14/07/2021	Energy Innovation	CO3				
9	21/07/2021	Role of regulation and policies in smart energy technologies	CO3				

Remarks:

Signature of Faculty



Year: I

Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

Date:



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

PERIODIC MONITORING

Attainment of the Course (Learning) Outcomes:

Components	Attainment level	Action Plan	Remarks
Cycle I Continuous Assessment	CO1:	Quiz/Test on 15.05.2021	
	CO2:		
	CO3:	NA	
Cycle II Continuous Assessment	CO1:	NA	
	CO2:	Quiz/Test on 17.07.2021	
	CO3:		
End Semester	CO1:	Will held on 28.07.2021	
	CO2:		
	CO3:		
Any Other	CO1:	NA	
	CO2:		
	CO3:		
	CO4:		
	CO5:		

Signature of HOD/ Dean

Signature of Faculty

Date

Date



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

Continuous Evaluation Sheet

Roll Number	Registration Number	Name of the Student	Continuous Assessment*								
			Cycle I (25)					Cycle II (25)			
			Ex 1	Ex 2	Ex 3	Ex 4	Ex 5	Ex 6	Ex 7	etc .	Total (50)

*Depends on Number of Experiments Divide the Total Marks and Prepare Rubrics for Evaluating Experiments

Signature of HOD/Dean

Signature of Faculty

Date:

Date:



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

Planning for Remedial Classes

Sl. No.	Name of Student	Roll No.	Re g. No.	Mid Sem Marks	Remedial Classes Held							Retest on the basis of Remedial Classes	End Sem Marks	Improvement (Y/N)
					Date									
					Venue									
					Time									
1.														
2.														

Signature of HOD/ Dean

Signature of Faculty

Date:

Date:



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

COURSE END SURVEY

INDIRECT ASSESSMENT

Sample format for Indirect Assessment of Course outcomes:

NAME:
ROLL NO.:
REG. NO.:
COURSE:
PROGRAM:

Please rate the following aspects of course outcomes of

Use the scale 1-5 (Poor – Excellent) *

Course Outcome s	Statement	1	2	3	4	5
CO1						
CO2						
CO3						
CO4						
CO5						



Year: I

Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

INDIRECT ASSESSMENT CONSOLIDATION

ADAMAS UNIVERSITY, KOLKATA SCHOOL OF DEPARTMENT OF CO Indirect Assessment		
Programme: Batch: 2020-22		Academic Year:2020-21
Course Code & Name:		
Course Outcome	Students Feed Back (5)	Attainment (100)
C01		
C02		
C03		
C04		
C05		
etc.		
Signature of HOD/Dean Date:		Signature of Faculty Date:



Year: I

Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

Evaluation Sheet (End Semester)

Roll Number	Registration Number	Name of the Student	Marks (50)

Signature of HOD/Dean

Signature of Faculty

Date:

Date:



Year: I
Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

Planning for Remedial Classes – End Semester

Sl. No.	Name of Student	Roll No.	Reg. No.	End Sem Marks	Remedial Classes Held							Retest on the basis of Remedial Classes	Supple Exam Marks	Improvement (Y/N)
					Date									
					Venue									
					Time									
1.														
2.														

Signature of HOD/ Dean

Signature of Faculty

Date

Date



Year: I

Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

Consolidated Mark Statement

Roll Number	Registration Number	Name of the Student	Marks			
			Continuous Assessment (50)		End Semester (50)	Total (100)
			Cycle I (25)	Cycle II (25)		

Signature of Dean/HOD

Signature of Faculty

Date:

Date:



Year: I

Semester: II

6. Name of the Faculty:

7. Course : SEC B

8. Program : B.Tech

9. Target : 60%

Course Code: GEE14004

L: 0

T: 0

P: 2

C: 2



Year: I

Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

CO ATTAINMENT – GAP ANALYSIS & REMEDIAL MEASURES

ADAMAS UNIVERSITY, KOLKATA SCHOOL OF DEPARTMENT OF CO ATTAINMENT - GAP ANALYSIS & REMEDIAL MEASURES							
Batch	: 2020-22					Academic Year: 2020-21	
Course Code & Name			Name of the Coordinator			Year & Semester	
						I & I	
CO	Direct Assessmen t	Indirect Assessmen t	CO Attainmen t	Target	CO Attainmen t Gaps	Action for Bridge the Gap	Target Modificatio n
CO1							
CO2							
CO3							
CO4							
CO5							

Signature of HOD/Dean

Signature of Faculty

Date:

Date:



Year: I

Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

CO-PO ATTAINMENT

ADAMAS UNIVERSITY, KOLKATA SCHOOL OF DEPARTMENT OF CO-PO ATTAINMENT																	
Programme :		Year & Sem: I & I		Academic 2020- Year: 21		Batch:2020-22											
Course Code	Course Name	CO-PO	PO 1	PO 2	PO 3	PO4	PO5	PO6	PO 7	PO8	PO 9	PO 10	P O 11	PO 12	PS O 1	PSO 2	PS O 3
		Relationship															
		Mapping Value															
		Attainment															

Signature of HOD/Dean

Signature of Faculty

Date:

Date:



Year: I

Semester: II

6. Name of the Faculty:

Course Code: GEE14004

7. Course : SEC B

L: 0

8. Program : B.Tech

T: 0

9. Target : 60%

P: 2

C: 2

PO ATTAINMENT OF THE COURSE

Signature of HOD/Dean

Date:

Signature of Faculty

Date:



Year: I
Semester: II

6. Name of the Faculty:		Course Code: GEE14004
7. Course	: SEC B	L: 0
8. Program	: B.Tech	T: 0
9. Target	: 60%	P: 2
		C: 2

INSTRUCTIONS FOR FACULTY

Instructions for Faculty

- Faculty should keep track of the students with low attendance and counsel them regularly.
- Course coordinator will arrange to communicate the short attendance (as per University policy) cases to the students and their parents monthly.
- Experiment covered in each lab should be recorded in the table of RECORD OF CLASS TEACHING (Suggested Format).
- Internal assessment marks should be communicated to the students twice in a semester.
- The file will be audited by respective Academic Monitoring and Review Committee (AMRC) members for theory as well as for lab as per AMRC schedule.
- The faculty is required to maintain these files for a period of at least three years.
- This register should be handed over to the head of department, whenever the faculty member goes on long leave or leaves the Colleges/University.
- For labs, continuous evaluation format (break-up given in the guidelines for result preparation in the same file) should be followed.
- Department should monitor the actual execution of the components of continuous lab evaluation regularly.
- Instructor should maintain record of experiments conducted by the students in the lab weekly.
- Instructor should promote students for self-study and to make concept diary, due weightage in the internal should be given under faculty assessment for the same.
- Course outcome assessment: To assess the fulfilment of course outcomes two different approaches have been decided. Degree of fulfilment of course outcomes will be assessed in different ways through direct assessment and indirect assessment. In Direct Assessment, it is measured through quizzes, tests, assignment, Mid-term and/or End-term examinations. It is suggested that each examination is designed in such a way that it can address one or two outcomes (depending upon the course completion). Indirect assessment is done through the student survey which needs to be designed by the faculty (sample format is given below) and it shall be conducted towards the end of course completion. The evaluation of the achievement of the Course Outcomes shall be done by analyzing the inputs received through Direct and Indirect Assessments and then corrective actions suggested for further improvement.
- **Submission Targets of Course Contents:**
 - o S. No. 1 to 7 : Before Starting the Course
 - o S. No. 8 & 9 : After Mid Semester Examination
 - o S. No. 10 to 13 : Immediately After End Semester Examination
 - o S. No. 14 to 17 : After Declaration of Result of the Course