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Add On/ Certificate Programs Academic Year 2021-22



ACE College of Engineering Thiruvallam P.O Thiruvananthapuram-695 023



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Add-on course Academic Year 2021-22

SI. No	Course Code	Name of Add on/Certificate Program offered	Year of offering	Branch	Number of students completed the course in the year	Type of Add on course
1	AO21001	Workshop on UAV	II	Aeronautical	40	Self- Framed Course
2	AO21002	Aeromodelling and Water Rocketry	I	Aeronautical	33	Self- Framed Course
3	ECE21003	Python Programming	п	Electronics & Communication	30	Self- Framed Course
4	ECE21001	IOT using Arduino	ш	Electronics & Communication	25	Self- Framed Course
5	ECE21002	Data Science	IV	Electronics & Communication	32	Self- Framed Course
6	ME21002	Business Intelligence	П	Mechanical	30	Self- Framed Course
7	ME21001	Vehicle Overhauling	IV	Mechanical	31	Self- Framed Course
8	EEE21001	Introduction to Arduino	III	Electrical & Electronics	21	Self- Framed Course
9	ECE21002	Accident Prevention and Risk Management in Electrical System	I	Electrical & Electronics	16	Self- Framed Course
10	CE21001	Revit architecture	Ш	Civil	33	Self- Framed Course
11	CE21002	AutoCad 3D	п	Civil	36	Self- Framed Course

25 year

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From

The Head of the Department,

Department of Aeronautical Engineering,

ACE College of Engineering, Trivandrum

To

The Principal

ACE College of Engineering,

Trivandrum

Respected Sir,

Sub: Permission for conducting an Add-On Course- 'Workshop on UAV"

The department of Aeronautical Engineering has planned to conduct a Five day Add-on programme named' Workshop on UAV' for Second Year students of our department, from 04/10/21 to 08/10/21. Mr. Prem Kishore, Assistant Professor of Department of Aeronautical Engineering of our college is the resource person for this 35 hour programme. We will be providing certificates to those who complete the programme. The detailed course content and schedule is attached herewith for your kind approval.

Thanking You

Truly

ACE TVM.

23/09/2021

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Yours

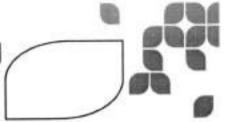


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DEPARTMENT OF AERONAUTICAL ENGINEERING

Circular

Date: 27/09/2021

We are extremely happy to inform you that the Department of Aeronautical Engineering will be conducting a 5 day course named 'Workshop on UAV' for Second Year Aeronautical Students at ACE College of Engineering from, 04/10/2021 to 08/10/2021. This is an Add-On course, off from your curriculum and certificates will be issued to those who complete. Rest of the details of the programme and the schedule is put on the notice board, for you reference. All Students are requested to register & attend the programme. Fullest cooperation is solicited for the successful conduct of the training.

Note: To be read on Second year Aeronautical Engineering class.

Coordinator

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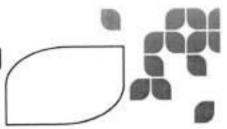
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

Course Content

Course Description: - The course is intended to add up to curriculum to introduce into the field of Unmanned Aerial Vehicle for those who purse Aeronautical Engineering. The course will give touch up introductory training on UAV construction. The course is designed to have three phases during the programme. In the first phase we introduce to field of UAVs and give future perspective of this field. In the second phase the course will go into detailed details of two types of UAV, the students are made to form groups and then work as team in construction of two types of UAVs, Quadcopter and fixed wing type UAV. After the construction there will flying sessions which will seal off the objective this course impinging interest in this field to their minds. In last phase we make students come up with new ideas and assess the attainment of the course objective. The details of each day, different sessions is as follows.

Day	Phase	Session	Topic	Hours	Type
		Session-	Introduction to UAV What is an UAV? Purpose of UAV Classification of UAV Applications Discussion on few samples	1	PPT & Videos
1	I	Session-	Evolution of UAV Early UAVs Modern UAVs Evolution of propulsion systems Evolutions of control systems Evolution of communication systems	2	PPT & Videos

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Day	Phase	Session	Topic	Hours	Type
1	ı	Session-	UAV of Historical Importance Description of Five UAVs, discussion their aerodynamics characteristics, range, endurance, stealth characteristics, missions undergone, load carrying capacities.	1.5	PPT & Videos
		Session-	Queries Student can clarify their ideas and one to one interaction is provided.	1	
		Session-	Introduction to Quadcopter Purpose Parts Applications Recent trends and developments	1	PPT
2	п	Session- 2	Key components and their functions. Frame & Legs ESC Flight Controller Board BLDC motor Receiver Transmitter Li-po Battery	3,5	PPT
		Session-	Identification of components The different components Frame & Legs, ESC, Flight Controller Board, BLDC motor, Receiver, Transmitter, Li-po Battery, etc. are shared with students to have look on and identify.	1	Hands-on
3	п	The students are made to form gro maximum of 7 students in each required raw materials are given and are guided to assemble to for	Construction & Assembly of Quadcopter The students are made to form groups having maximum of 7 students in each group. The required raw materials are given to students and are guided to assemble to form a fully functional Quadcopter.	3	Hands-on
		Session- 2	Flying Each Quadcopter is checked prior to flying and instruction are given regarding the safe operation and allowed to fly in restricted environment.	2.5	Hands-on





4	п	Session- 1	Fixed wing UAV construction using Foam sheet The students are made to form groups having maximum of 7 students in each group. The required raw materials are given to students and are guided to assemble to form a fully functional fixed wing UAV.	3	Hands-on		
		Session- 2	Flying Each Quadcopter is checked prior to flying and instruction are given regarding the safe operation and allowed to fly in restricted environment.	2.5	Hands-on		
		Session- 1	Innovations The students are made to form groups having maximum of 7 students in each group. They are given assignment to bring up with an innovation they could make in the field of UAV. Each group after discussion with group members should come up with one is mandatory.	1	Interactive		
				Session- 2	Presentation of innovations Each group is allowed to present their innovation by any means of presentation.	2	Interactive
5	m	Session-	Assessment The students are given assessment question having 15 question, each carrying 1 mark each. Student scoring min 10 marks will be declared to have passed and will be given certificate.	1.5	Interactive		
		Session-	Feedback The students are given feedback sheets for the assessment of programme and also interactive session will be provided to comment on conduction of programme.	1	Interactive		
			End of Programme Certificates will be Issued.				

Course Outcome: The students will understand the basic working of UAV. They will be able to construct a Quadcopter and fixed wing type UAV on their own.

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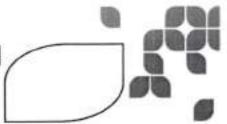
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21001- WORKSHOP ON UAV Academic Year: 2021-22

Resource Person Profile



Resource Person Name

: Mr. Prem Kishore

Designation

: Assistant Professor, Department of Aeronautical Engineering

Specialization

:M.Tech Aeronautical Engineering

Areas of Interest

:UAV, Quadcopter, Mechanism of machines

Teaching Experience

:8 years

Email ID

ENGINE

VANANTY

:prem.kishore@acetvm.com

Coordinator



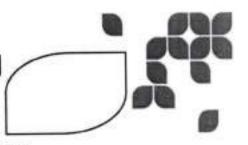
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

Time Table

Sl No	Date	9.00 am-10.00 am		10.15 am-12.15 pm		1.30pm-3.00 pm		3.10 pm-4.10 pm
1	04/10/21	Session-1 Introduction to UAV		Session -2 Evolution of UAV		Session -3 UAV of Historical Importance		Session -4 Queries
2	05/10/21	Session-1 Introduction to Quadcopter	Break	Session-2 Key components and their functions.	Lunch Break	Session-2 Key components and their functions.	Break 10	Session-3 Identification of components
3	06/10/21	Session -1 Construction & Assembly of Quadcopter	15 min	Session -1 Construction & Assembly of Quadcopter.	12.35pm -1.25pm	Session -2 Flying	min	Session -2 Flying
4	07/10/21	Session-1 Fixed wing UAV construction using Foam sheet		Session-1 Fixed wing UAV construction using Foam sheet		Session -2 Flying		Session -2 Flying
5	08/10/21	Session-1 Innovations		Session-2 Presentation of innovations	-	Session -3 Assessment		Session -4 Feedback

Coordinator

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HOD



Duration: 04/10/2021 - 08/10/2021

Resource Person

Mr. Prem Kishore

Convener (HOD)
Mr. Sabu S. Joseph

Coordinator (Assistant Professor)

Mr. Al Ameen H.

Patron

Dr. Farrukh Sayeed Principal





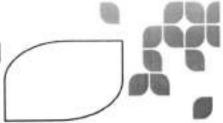
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21001-WORKSHOP ON UAV

Academic Year: 2021-22

Students Enrolled List

SI. No.	Register Number	Name	Signature
1.	ACE20AO002	AISHWARYA LEKSHMI S A	Ante
2.	ACE20AO003	AISWARYA B M	معلاه
3.	ACE20AO004	AJIMI S	Agri-
4.	ACE20AO005	AKASH A S	test-
5.	ACE20AO006	AKASH S KUMAR	Male.
6.	ACE20AO007	AKHILESH A J	AKINEN
7.	ACE20AO008	ALIF MOHAMMED S	Marke
8.	ACE20AO009	AMAL RAJ A	And
9.	ACE20AO010	AMBROSE ANTONY	-A
10.	ACE20AO011	ANAMIKA S JITH	double
11.	ACE20AO012	ANFAL AHAMMAD N	70-
12.	ACE20AO013	ANNA ALINA ROBERT	- State
13.	ACE20AO014	ANUPAMA SATHEESH	drup.
14.	ACE20AO015	ASHIK HUSSIAN N	Ad
15.	ACE20AO016	ASHISH P J	
16.	ACE20AO017	ASHISH SENGER	July
17.	ACE20AO018	ATHIRA L	Dies
18,	ACE20AO019	BHAVYA B A	On.
19.	ACE20AO020	GOPIKA S	(Cople
20.	ACE20AO021	HAYAGRIVAPOORNA B L	Da . //
21.	ACE20AO022	KAVYA B	Acare

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22.	ACE20AO023	K B ANASS	ARUK
23.	ACE20AO024	KESANAPALLI NITHIN	Jel-
24.	ACE20AO025	MIDHUN KANNAN T M	de.
25.	ACE20AO026	MOHAMED AMEEN	ded
26.	ACE20AO027	NAYANA PRAKASH	150
27.	ACE20AO028	NIHAL N	A.L
28.	ACE20AO029	P C FENEETA	Sex a de
29.	ACE20AO030	SARATH S D	Soule
30.	ACE20AO031	SARATH S KRISHNA	Shehon
31.	ACE20AO032	SATHEESHKUMAR S	Solling Cans
32.	ACE20AO033	S D VISHAL	LEA .
33.	ACE20AO034	SHINOY SHAJI	Schot
34.	ACE20AO035	SNEHA ALOSIOUS	Suche
35.	ACE20AO036	SOUMYA S	Queps.
36.	ACE20AO037	SRUTHI SATHEESH	Brushin.
37.	ACE20AO038	SUBRAMANYAN S	35x3-
38,	ACE20AO039	SURAJ SUDHEENDRAN	Olg
39.	ACE20AO040	VARSHA MOHAN G	Wal war
40.	ACE20AO041	VIGNESH V R	Diques

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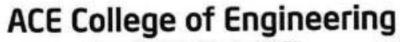
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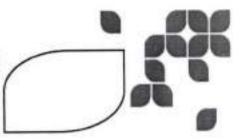
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

Attendance Sheet

Sl. No.	Name	04/10/2021	05/10/2021	06/10/2021	07/10/2021	08/10/2021
1.	AISHWARYA LEKSHMI S A	ASSE	Agent	A STATE OF THE PARTY OF THE PAR	A STATE OF THE PARTY OF THE PAR	1 the
2.	AISWARYA B M	den	TRIN	den.	Alem	100
3.	AJIMI S	America	da	Aro	Aten	Ago
4.	AKASH A S	Alex	Part.	Dak	Mas-	(host)
5.	AKASH S KUMAR	Mech	Alderda	Alenh	Meanh	Menda
6.	AKHILESH A J	AKKELL	Ment	Alberto	About	Achters
7.	ALIF MOHAMMED S	and s	Color Charles	200 Days	Medical "	Malland 3
8.	AMAL RAJ A	Arel	And	that	The .	Ald
9.	AMBROSE ANTONY	A	A	-A-	-Au	
10.	ANAMIKA S JITH	Arish	Joseph	Aroel	And	A PAN
-11.	ANFAL AHAMMAD N	- This	And	AN	Add	Ach
12.	ANNA ALINA ROBERT	-Actor	-Assa	Alexa	-times.	- tres.
13.	ANUPAMA SATHEESH	dist	show.	Le	de	AR
14.	ASHIK HUSSIAN N	- Jesta-le	blip	Athk	Mehle	otrlak
15.	ASHISH P J	AA-	te	Ad	stela	Aris
16.	ASHISH SENGER	A	00	- Les	10	70

17.	ATHIRA L	Adr	Appro	Am	Alm	Am
18.	BHAVYA B A	100	Plan	Man	Blog	Blue
19.	GOPIKA S	Cople	Charle	Clark	Color	GGP-
20.	HAYAGRIVAPOORNA B L	****	1900	1	400	April .
21.	KAVYA B	Kamp	Nontra	benefic	V	CX
22.	K B ANASS	Menk	Arek	Muk	Maryk	Hows
23.	KESANAPALLI NITHIN	191	KH	111	20	441
24.	MIDHUN KANNAN T M	de	A.	afe-	904	ace
25.	MOHAMED AMEEN		1	1	A	***
26.	NAYANA PRAKASH	P		2		SAS
27.	NIHAL N	₩.	E.	M	-Ref	40
28.	P C FENEETA	forest.	Jant.	Jane L	faroka	Janet .
29.	SARATH S D	Sacry	Ball	-sauch-	-sac-	Lasell
30.	SARATH S KRISHNA	Sabb	Skelow	Skehor	Ship	Skins
31.	SATHEESHKUMAR S	- Alana	- Atalles	Sielas	Sel ou	- Selle
32.	S D VISHAL	<u> </u>	***	14	1-32	121
33.	SHINOY SHAJI	بطبيئ	Sub	8 chy	- Sity	sub.
34.	SNEHA ALOSIOUS	Buche	sueles	suela	Rueles	Suelan
35.	SOUMYA S	Carel	Cohos	Sough	asyal	Southern
36.	SRUTHI SATHEESH	Sudie	Sodie	Brother	Brusi -	Essether
37.	SUBRAMANYAN S	- F. (0-)	(200)	CAR .	Joan &	500
38.	SURAJ SUDHEENDRAN	dut	They do	184	dy	gry
39.	VARSHA MOHAN G	water	200	120	welson	240
40.	VIGNESH V R	attender	Charles	Magnes	Ataguan	- acquier

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Course coordinator

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

Course Completed Students List

Sl. No.	Register Number	Name	Course Completed
1.	ACE20AO002	AISHWARYA LEKSHMI S A	/
2.	ACE20AO003	AISWARYA B M	/
3.	ACE20AO004	AJIMI S	1
4.	ACE20AO005	AKASH A S	1
5,	ACE20AO006	AKASH S KUMAR	/
6.	ACE20AO007	AKHILESH A J	1
7.	ACE20AO008	ALIF MOHAMMED S	1
8.	ACE20AO009	AMAL RAJ A	
9.	ACE20AO010	AMBROSE ANTONY	✓ ·
10.	ACE20AO011	ANAMIKA S JITH	1
11.	ACE20AO012	ANFAL AHAMMAD N	1
12.	ACE20AO013	ANNA ALINA ROBERT	1
13.	ACE20AO014	ANUPAMA SATHEESH	1
14.	ACE20AO015	ASHIK HUSSIAN N	1
15.	ACE20AO016	ASHISH P J	1
16.	ACE20AO017	ASHISH SENGER	1
17.	ACE20AO018	ATHIRA L	1
18.	ACE20AO019	BHAVYA B A	1
19.	ACE20AO020	GOPIKA S	/
20.	ACE20AO021	HAYAGRIVAPOORNA B L	1
21.	ACE20AO022	KAVYA B	1
22.	ACE20AO023	K B TNASKE	1
23-P	ACE20AO024	KESANAPALD ANTHIN	1
UF241		MIDHUNKANNANT M	1
25,00		MOHAMED AMBES	1
26.	ACE20AO027	NAYANA PRAKASH	1
27.	ACE20AO028	NIHABONANANTA	1

28.	ACE20AO029	P C FENEETA	1
29.	ACE20AO030	SARATH S D	1
30.	ACE20AO031	SARATH S KRISHNA	/
31.	ACE20AO032	SATHEESHKUMAR S	1
32.	ACE20AO033	S D VISHAL	1
33.	ACE20AO034	SHINOY SHAJI	1
34.	ACE20AO035	SNEHA ALOSIOUS	✓
35.	ACE20AO036	SOUMYA S	/
36.	ACE20AO037	SRUTHI SATHEESH	✓
37.	ACE20AO038	SUBRAMANYAN S	/
38.	ACE20AO039	SURAJ SUDHEENDRAN	✓
39.	ACE20AO040	VARSHA MOHAN G	1
40.	ACE20AO041	VIGNESH V R	1

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Course coordinator

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

Assessment Questions

Instructions: Questions are of MCQ format. Answer the questions by writing the corresponding alphabet of your choice on ANS column provided. Answer all the questions. One mark for each questions.

		2000								
Nai	me	of Stu	dent:		Seme	ester			Date:.	
					Que	estic	ons			
	1.	Which	of the following	ng con	nes under UAV	?				
		A.	Lockheed SR- 71	В.	Mikoyan MiG-29	C.	RQ-4 Global Hawk	D.	Chengdu J-20	ANS:
	2.	What	is ESC?						ITALI COMPANIA	
		A.	Electronic Speed Controller	B.	Electric Speed Controller	C.	Electric Synchronous Controller	D.	Electronic Synchronous Controller	ANS:
	3	Weigh	nt of Nano UA	V is ur	to.					
			Up to 500g	В.		C.	Up to 250g	D.	Up to 5000g	ANS:
	4.	Which	is the brain of	UAV	?					
		Α.	ESC	В.	Motor/Engine	C.	Gyroscope	D.	Flight Control Board	ANS:
	5.	What	is the function	of acc	elerometer in U	AV?				
		A.	Measures the rate of rotation.	В.	Measures the rate of acceleration.	C.	Measures the rate of deceleration.	D.	Measures the angular velocity.	ANS:
	6.	Numb	er of ESC requ	iired f	or Quadcopter i	s				20322
		A.	1	B.	2	C.	3	D.	4	ANS:
	7.	The p	ropeller with_		_ of blades is u		sually in Quade	copter.	8	
		Α.	2	В.	OF ENGINEER	C.	4	D.	6	ANS:
1	-	PINC	LEUS US BUTTON	100	man A	1				
U-	,	ONESO C	25 02	103	10%	4695 027				
-	Files	AGUELO		1/13	1	3				
,				11	The world	1				

8.	Numb	er of Channels	requir	red for controlli	ng a (Quadcopter is			
	A.	1	В.	3	C.	4	D.	5	ANS:
9.	Numb	er of Channels	requi	red for controlli	ng a l	Fixed wing UAV			
	Α.	5	В.	6	C.	4	D.	3	ANS:
10.	Funct	ion of Transmi	tter is						
	A.	To transmit power to motor	В.	To transmit signal to Flight control board	C.	To transmit signal from Flight control board	D.	To transmit signal to motors	ANS:
11.	The s	tart frequency	of ISM	f- Industrial, Sc	ientifi	ic and Medical F	tadio	Band is	
	A.	433.05 MHz	В.	2.4 GHz	C.	434.79 MHz	D.	2.4835 GHz	ANS:
12.	The t	ype of battery	mostly	used in small C)uade	opter is			
	Α.	Season and the season	В.				D.	Nickel – Cadmium Batteries	ANS:
13.	The t	vpe of motor u	sed for	actuating mech	nanist	n in fixed wing	UAV	s is	
	A.		В.	Series motor	C.	Shunt motor	D,		ANS:
14.	The	ype of motor u	sed in	Quadcopter for	its fli	ight is			00000
	A.	Servo motor	В.	Series motor	C.	BLDC	D.	Stepper motor	ANS:
15	The f	unction of rece	eiver is						
	A.	To receive power from motor	В.	To receive power from flight control board	C.	To receive signal from flight control board	D.	To receive signal from Transmitter and transmit to board	ANS:

Score secured: /15

Name of Evaluator:

Designation:

Signature:

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

Assessment Marks

Sl. No.	Register Number	Name	Max. Marks (15
1.	ACE20AO002	AISHWARYA LEKSHMI S A	14
2.	ACE20AO003	AISWARYA B M	15
3.	ACE20AO004	AJIMI S	15
4.	ACE20AO005	AKASH A S	14
5.	ACE20AO006	AKASH S KUMAR	14
6.	ACE20AO007	AKHILESH A J	15
7.	ACE20AO008	ALIF MOHAMMED S	15
8.	ACE20AO009	AMAL RAJ A	15
9.	ACE20AO010	AMBROSE ANTONY	15
10.	ACE20AO011	ANAMIKA S JITH	15
11.	ACE20AO012	ANFAL AHAMMAD N	15
12.	ACE20AO013	ANNA ALINA ROBERT	15
13.	ACE20AO014	ANUPAMA SATHEESH	14
14.	ACE20AO015	ASHIK HUSSIAN N	14
15.	ACE20AO016	ASHISH P J	15
16.	ACE20AO017	ASHISH SENGER	15
17.	ACE20AO018	ATHIRA L	14
18.	ACE20AO019	BHAVYA B A	15
19.	ACE20AO020	GOPIKA S	15
20.	ACE20AO021	HAYAGRIVAPOORNA B L	15
21.	ACE20AO022	KAVYA B	15
22.	ACE20AO023	K B ANASS	15
23.	ACE20AO024	KESANAPALLI NITHIN	15
24.	ACE20AO025	MIDHUN KANNAN T M	15
25.	ACE20AO026	MOHAMED AMEEN	14
26.	ACE20AO027	NAYANA PRAKASH	15
27.	ACE20AO028	NIHAL N	15
28.	ACE20AO029	P C FENEETA	13
29.	ACE20AO030	SARATH S D	15
30.	ACE20AO031	SARATH S KRISHNA	15

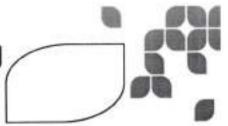




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Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

31.	ACE20AO032	SATHEESHKUMAR S	14
32.	ACE20AO033	S D VISHAL	14
33.	ACE20AO034	SHINOY SHAJI	15
34.	ACE20AO035	SNEHA ALOSIOUS	15
35.	ACE20AO036	SOUMYA S	13
36.	ACE20AO037	SRUTHI SATHEESH	15
37.	ACE20AO038	SUBRAMANYAN S	15
38.	ACE20AO039	SURAJ SUDHEENDRAN	14
39.	ACE20AO040	VARSHA MOHAN G	15
40.	ACE20AO041	VIGNESH V R	12

Coordinator

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BY PURPOSE

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Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

Assessment Questions

Instructions: Questions are of MCQ format. Answer the questions by writing the corresponding alphabet of your choice on ANS column provided. Answer all the questions. One mark for each questions.

Name o	of Stu	dent: Ausenten	A.A	:M Seme	ester:	0.3		Date:	8 10	21
				Que		ons				
1.	Which	of the following	ig cor	nes under UAV	?		120	CH 1 1 20	ANS:	C
	Α.	Lockheed SR- 71	В.	Mikoyan MiG-29	C.	RQ-4 Global Hawk	D.	Chengdu J-20	Also.	
2	What	is ESC?								
	A.	Electronic Speed Controller	В.	Electric Speed Controller	C.	Electric Synchronous Controller	D.	Electronic Synchronous Controller	ANS:	
3.	Weigh	ht of Nano UA	V is u	p to.		250-	D.	Up to 5000g	ANS:	4
	A.	Up to 500g	В.	Up to 2500g	C.	Up to 250g	D.	Op to Josep	3.00	
-4	Whic	h is the brain of	UAV	7?				77		
		ESC	В		; C.	Gyroscope	D.	Flight Control Board	ANS	n
,5,	What	is the function	of ac	celerometer in U	JAV?	18901 00.5502	Mark		ANS:	
	A.	Measures the rate of rotation.	В.		C.	Measures the rate of deceleration.	D.	Measures the angular velocity.	ANS	
-6-	Num	ber of ESC req	uired	for Quadcopter	is		122	0 92	ANS	o.
		. 1	В		C	. 3	D	. 4	ANS	
. 2	The	propeller with_		of blades is	used t	sually in Quad	copter			1780
	A.	2 Sayer	В.	3	C.	4	e of	ENGINECA	ANS:	•
		PRINCIPA	14		1	18	D	20		
	ACE	College of En		PRINC		144	-	12		

0	Mission	har of Channal		land for control	100000	A				
0.		l Channel		ired for control 3		Quadcopter is 4	D.	5	ANS	: <
09.	Num	ber of Channel	s requ	ired for control	ling a	Fixed wing UA	V is			
	A.	5	B.	6	C.	4	D.	3	ANS	: D
10.	Func	tion of Transm	itter is							
	A.	To transmit power to motor	В,	To transmit signal to Flight control board	C.	To transmit signal from Flight control board	D.	To transmit signal to motors	ANS:	Đ
11	The s	tart frequency	of ISN	A- Industrial, Se	cientif	ic and Medical I	Radio	Band is		
		433.05 MHz	B.		C.	434.79 MHz	D.	2.4835 GHz	ANS:	B
12.	The ty	ype of battery r Alkaline Battery	nostly B.	used in small (Lithium – Ion Battery			D.	Nickel – Cadmium Batteries	ANS	B
12	The			2002	3 II	0 2 0 0 0				
Lhi.						n in fixed wing				120
	Α.	Servo motor	В.	Series motor	C.	Shunt motor	D.	Stepper motor	ANS:	B
. 14	The ty	pe of motor us	ed in	Quadcopter for	its fli	ght is				
	Α.	Servo motor	B.	Series motor	C,	BLDC	D.	Stepper motor	ANS:	C.
15.	The fi	inction of recei	ver is							
	Α.	To receive power from motor	В.	To receive power from flight control board	C.	To receive signal from flight control board	D.	To receive signal from Transmitter and transmit to board	ANS:	a

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Score secured: 13 /15

Name of Evaluator: NEW 10 N

Designation: A.P.

Signature:

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Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

Assessment Questions

Instructions: Questions are of MCQ format. Answer the questions by writing the corresponding alphabet of your choice on ANS column provided. Answer all the questions. One mark for each questions.

	quest	ions.							4 1-3	20
Name o	of Stud	lent: FEN	EET	£ Semo	ster:	3		Date:	el iola	
				Que		ons				
1.	Which	of the following	ng con	nes under UAV	?	- 1100000000000000000000000000000000000	3227		ANS: €	
	Α.	Lockheed SR- 71	В.	Mikoyan MiG-29	C.	RQ-4 Global Hawk	D.	Chengdu J-20	Ans:	
2	What i	s ESC?							100.1	
	A.	Electronic Speed Controller	В.	Electric Speed Controller	C.	Electric Synchronous Controller	D.	Electronic Synchronous Controller	ANS: 4-	
3.	Weigh	t of Nano UA	V is up	to.		- 222	2	11- to 6000a	ANS:	Δ
1000	Α.	Up to 500g	В.	Up to 2500g	C.	Up to 250g	D.	Up to 5000g	ALTO.	
4	Which	is the brain of	FUAV	7				- E 92	200	i d
		ESC	В.	the contract of the contract o	C	Gyroscope	D.	Flight Control Board	ANS:	А
5	What	is the function	of acc	elerometer in U	JAV?			CHANNES JAMES SWITCH	200	
	Α.	Measures the rate of rotation.	В.	Measures the rate of acceleration.	C.		D.	Measures the angular velocity.	ANS:	A
6	Numb	per of ESC reg	uired f	for Quadcopter	is					0
D.	A.		В		C	. 3	D	. 4	ANS:	P
7.	Then	ropeller with_		of blades is	used t	usually in Quad	copter	¥.,		200
	A.		В.	3	C.	OF ENGINE	D.	Says	ANS:	D
					(F)			ACE College	of English	erini
					000		127	Thiruvananth	apuram-B	95 (

8	Numi	ber of Channel	s requ	ired for controll	ing a	Quadcopter is				
-	A.	1	В	3	C	4	D.	5	ANS	: 0
9.	Numi	ber of Channel	s requ	ired for controll	ing a	Fixed wing UA	V is			
		5		6	100	4	D.	3	ANS:	b
10.	Func	tion of Transm	itter is	il a						
	Α.	To transmit power to motor	В.	To transmit signal to Flight control board	C.	To transmit signal from Flight control board	D.	To transmit signal to motors	ANS:	D
41.	The s	tart frequency	of ISN	4- Industrial, Sc	ientif	ic and Medical	Radio	Band is		
		433.05 MHz	B.		C.		D.	2.4835 GHz	ANS:	B
12.	The t	ype of battery i	nostly	used in small Q)uade	opter is				
	۸.	Alkaline Battery	B.	Lithium – Ion Battery	C.	Nickel – Metal Hydride	D.	Nickel – Cadmium Batteries	ANS:	B
13	The ty	pe of motor us	sed for	actuating mech	anisn	n in fixed wing	UAV:	sis		
-	A.		В.		C.	Shunt motor	D.	Stepper motor	ANS:	4
14	The ty	pe of motor us	sed in	Quadcopter for	its fli	eht is				
10	Α.	Servo motor	В.	Series motor	C,		D.	Stepper motor	ANS:	C_
15	The fi	inction of rece	iver is							
	Α.	To receive power from motor	В.	To receive power from flight control board	C.	To receive signal from flight control board	D.	To receive signal from Transmitter and transmit to board	ANS:	D

>>>>>>>

Score secured: 5 /15

Name of Evaluator: NEWTON

LEGE OF

Designation: A.P.

Signature:

ACE College of Engineering Thiruvaliam P.O Thiruvananthapuram-695 027

2



Instructions:

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

Assessment Questions

Questions are of MCQ format. Answer the questions by writing the corresponding alphabet of your choice on ANS column provided. Answer all the questions. One mark for each questions. Name of Student: Ashish Separt. Semester:....3...... **Ouestions** Which of the following comes under UAV? Chengdu J-20 ANS: RQ-4 Global Lockheed SR- B. Mikoyan Hawk MiG-29 71 2. What is ESC? ANS: A D. Electronic Electric C. Electric Speed Electronic Synchronous Synchronous Controller Speed Controller Controller Controller 3. Weight of Nano UAV is up to. Up to 5000g ANS: A C. Up to 250g Up to 2500g Up to 500g 4. Which is the brain of UAV? Flight Control Gyroscope Motor/Engine A. ESC Board 5. What is the function of accelerometer in UAV? ANS: T Measures the D. Measures the Measures the Measures the angular rate of rate of rate of velocity. deceleration. acceleration. rotation. Number of ESC required for Quadcopter is D. C 3 A. 1 of blades is used usually in Quadcopter. The propeller with D. 3 B. 2

PAL

m P.D

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ENGINE

8.	Numi	per of Channel	s requi	ired for controll	ing a	Quadcopter is				
V	Α.	1	В.	3	C,	4	D.	5	ANS:	0
2	Numl	per of Channel:	s requi	red for controll	ing a	Fixed wing UA	V is			
		5	1000	6	7.00	4	D.	3	ANS:	D
10	0/	e.r.								
10.		ion of Transmi								in
	A.	To transmit power to motor	В,	To transmit signal to Flight control board	C,	To transmit signal from Flight control board	D.	To transmit signal to motors	ANS:	D
11	The	tart fraguesia	FICA	t Industrial Sci				n 1		
11.						ic and Medical I				0
1	Α.	433.05 MHz	В.	2.4 GHz	C.	434,79 MHz	D.	2.4835 GHz	ANS:	13
12	The t	pe of battery r	nostly	used in small (Duade	onter is				
	Α.	Alkaline Battery	В.			Nickel – Metal Hydride	D.	Nickel – Cadmium Batteries	ANS:	B
13	The ty	me of motor us	ed for	actuating mech	anien	in fixed wing	IAV	e ie		
		Servo motor	B.		C.	Shunt motor	D.		ANC.	A
		Servo motor		Series monor		Shunt motor	D.	Stepper motor	ANS:	
14	The ty	pe of motor us	ed in	Quadcopter for	its flip	ght is				
	A.	Servo motor	B.	Series motor	227	BLDC	D.	Stepper motor	ANS:	C
15.	The fi	inction of recei	ver is							
	Α.	To receive	B.	To receive	C.	To receive	D.	To receive	ANS:	h
		power from motor	В.	power from flight control board		signal from flight control board		signal from Transmitter and transmit to board	ANS:	D

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Score secured: 15 /15

Name of Evaluator: IN EW TON

Designation: A-P

2

Signature:

Thiruvalum P.O
Thiruvananthapuram-895 027



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Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

Assessment Questions

Instructions: Questions are of MCQ format. Answer the questions by writing the corresponding alphabet of your choice on ANS column provided. Answer all the questions. One mark for each questions.

Name		dent: MOHA	MME	n AMBEN Seme	ester:	3		Date:	08/10/	10
				Que	estic	ons				
1	Which	of the following	ng cor	nes under UAV					noesee a	-
	A.	Lockheed SR- 71	В.	Mikoyan MiG-29	C.	RQ-4 Global Hawk	D.	Chengdu J-20	ANS:	
2	What	is ESC?								^
9	A.	Electronic Speed Controller	В,	Electric Speed Controller	C.	Electric Synchronous Controller	D.	Electronic Synchronous Controller	ANS:	A
3_	Weigh	nt of Nano UA	V is u	p to.					10252	n
1	A.			Up to 2500g	C.	Up to 250g	D.	Up to 5000g	ANS:	*1
	Whiel	h is the brain of	/AU	79						0182
7		ESC	В	15-27 (15-4) 412 (41.7)	C.	Gyroscope	D.	Flight Control Board	ANS:	C
5.	What	is the function	of ac	celerometer in U	JAV?			CASSIC SALDON ESP	10.5100	
	Α.	Measures the rate of rotation.	В.		C.	Measures the rate of deceleration.	D.	Measures the angular velocity.	ANS:	•1
6,	Numl	per of ESC requ	uired	for Quadcopter i	is					0
-	A.	1	В	. 2	C	. 3	D	4	ANS:	D
7	Ther	propeller with_		of blades is t	ised i	sually in Quad	copter	il.		-
	Α.	PRINT	B		C.	4 LOFE	N Pay	6	ANS:	A
		ACE College o Thinwell Thinwananthip	om P	bering 35 027	- 27		K			

8	Num	ber of Channel	s requ	ired for controll	ing a	Quadcopter is				
4	A.	1	В.	3	C.	4	D.	5	ANS:	C
9.	Numl	ber of Channel	s requi	red for controll	ing a	Fixed wing UA	V is			
1	A.	5	В.	6	C.	4	D.	3	ANS:	0
10.	Funct	tion of Transm	itter is							
	A.	To transmit power to motor	В.	To transmit signal to Flight control board	C.	To transmit signal from Flight control board	D.	To transmit signal to motors	ANS:	D
11.	The s	tart frequency	of ISM	f- Industrial, Sc	ientif	ic and Medical I	Radio	Band is		- 2
		433.05 MHz	В.		C.	434.79 MHz	D.	2.4835 GHz	ANS:	B
c12:	The t	ype of battery i Alkaline Battery	mostly B.	used in small Q Lithium – Ion Battery	The state of the state of	opter is Nickel – Metal Hydride	D.	Nickel – Cadmium Batteries	ANS:	В
-13.						n in fixed wing l	JAV.	s is		
	A.	Servo motor	В.	Series motor	C.	Shunt motor	D.	Stepper motor	ANS:	14
14.	The ty	pe of motor us	sed in	Quadcopter for	its fli	ght is				
	A.	Servo motor	B.	Series motor	C.	BLDC	D.	Stepper motor	ANS:	L
15.	The fi	anction of rece	iver is							
	Α.	To receive power from motor	В.	To receive power from flight control board	C.	To receive signal from flight control board	D.	To receive signal from Transmitter and transmit to board	ANS:	D

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Score secured: 14/15

Name of Evaluator: NEWTON

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Designation:

Signature:

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Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

Assessment Questions

Instructions: Questions are of MCQ format. Answer the questions by writing the corresponding alphabet of your choice on ANS column provided. Answer all the questions. One mark for each questions.

Name	of Stu	dent:VAP.5.8		Semo	ester:	THEER		Date:.	08/10	ايدا
				Que	estic	ns				
1	Which	of the following	ne con	nes under UAV						
7	A.	Lockheed SR- 71	В.	Mikoyan MiG-29	C.	RQ-4 Global Hawk	D.	Chengdu J-20	ANS:	c
2	What	is ESC?								0277
2	A.	1 Table 1 Table 1 Table 1	В.	Electric Speed Controller	C.	Electric Synchronous Controller	D.	Electronic Synchronous Controller	ANS:	A
2	Weigh	nt of Nano UA	V is ur	to.						01/20
	A.		В.	Up to 2500g	C.	Up to 250g	D.	Up to 5000g	ANS:	A
A	Which	h is the brain of	TIAV	79						
V		ESC	В		C.	Gyroscope	D	Flight Control Board	ANS	A
	/									
5.	What			elerometer in U			D.	Measures the	ANS:	
	۸.	Measures the rate of rotation.	В.	Measures the rate of acceleration.	C.	Measures the rate of deceleration.	и.	angular velocity.	Also	
	Nami	her of ESC rem	nired f	or Quadcopter i	8					
-	A			2	C.	3	D.	4	ANS	. D
77	The	propeller with_		of blades is t	ised u	sually in Quade	copter	e.		
0	A	2	В.	3	C.		The contract of	and the same of th	ANS:	A
		ACE College Three	Jee Jee	ineering	1	COLLEGE	E EM			

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8.	Numl	ber of Channel	s requi	red for controll	ing a	Quadcopter is				
-	Α.	1	B.	3	C.	4	D.	5	ANS	C
9/	Numl	per of Channel	s requi	red for controll	ing a	Fixed wing UA	V is			
-		5	В.	6		4		3	ANS:	D
10	Func	ion of Transmi	itter is							
	A.	To transmit power to motor	B.	To transmit signal to Flight control board	C.	To transmit signal from Flight control board	D.	To transmit signal to motors	ANS:	D
. 11.	Thes	tart frequency	of ISN	1- Industrial. Sc	ientif	ic and Medical I	Radio	Band is		
(1)		433.05 MHz	B.	2.4 GHz	C.		D.		ANS:	8
12	The t	ype of battery i	mostly	used in small Q)uade	opter is				
	A.	Alkaline Battery	В.	Lithium – Ion Battery	C.	Nickel – Metal Hydride	D.	Nickel – Cadmium Batteries	ANS:	В
13.	The t	vpe of motor us	sed for	actuating mech	anisr	n in fixed wing	UAV	s is		
	A.	Servo motor	В.	Series motor	C.	Shunt motor	D.	Stepper motor	ANS:	A
14,	The t	vpe of motor us	sed in	Quadcopter for	its fli	ght is				
	A.		В.			BLDC	D.	Stepper motor	ANS:	c
. 15.	The f	unction of rece	iver is							
	A.		В.	To receive power from flight control board	C,	To receive signal from flight control board	D,	To receive signal from Transmitter and transmit	ANS:	D

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Score secured: 15/15

Name of Evaluator: NEWTON

Designation: A.P.

OF ENGINEER OF LEGISLAND OF LEG

Signature:

PRINCIPAL
ACE College of Engineering
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Thirtywacanthapuram-695 027

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

Course Summary with Course Outcome

Course Name

: Workshop on UAV

Course Duration

: 35 Hours

Course type

: Self framed Add-On course

Year offered

: Second Year Aeronautical Students

Academic Year

: 2021-2022

Date

:From 04/10/2021 to 08/10/2021

Course Instructor & Designation

: Mr. Prem Kishore

Assistant Professor

Department of Aeronautical Engineering

Course outcome

Students could understand the basic parts of a UAV and study their assembly. Hands-on training was given to them on assembly and flying was done in detail. Different systems associated with the vehicle were also studied.

Assessment Mode

Attendance

: 35 Hrs.

Number of Participants

: 40

Scheme of exam

: Physical Answer sheet mode

Date of exam

: 08/10/2021

Course Coordinator

CVINANTAR



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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21001-WORKSHOP ON UAV Academic Year: 2021-22

Course Coordinator Report

Course Name : Workshop on UAV

Course Duration : 35 Hours

Year offered : 2nd Year Aeronautical Students

Course Coordinator : Mr. Al Ameen H. (Assistant Professor/ AO)

Course type : Self framed course

The Add-On course of 'Workshop on UAV' was conducted for the Second year Aeronautical Engineering Students (batch-2020-24). The total period of 35 Hrs. has been planned and executed as per the course plan.

Assessment Mode

Number of students Enrolled : 40 Number of students Appeared : 40

Scheme of exam : Physical Answer sheet mode

Date of exam : 08/10/2021

Number of students Passed : 40

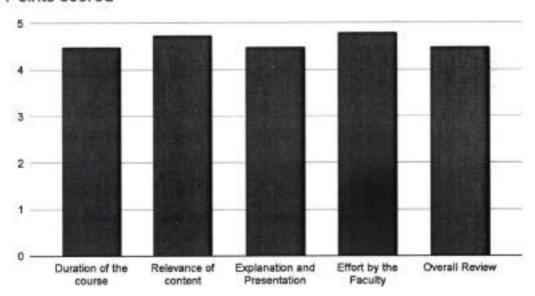




Course Feedback

The feedback was obtained from the participants after the course and a detailed analysis report is listed below.

Points scored



Course Coordinator

SUVARIAN





Certificate of Appreciation

IS PRESENTED TO

ANAMIKA S JITH

for successfully completing the

WORKSHOP ON UAV

held from 04/10/2021 TO 08/10/2021 by ACE College Of Engineering, Trivandrum.

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Thingvalues F.O.

Convener

MR. SABU S JOSEPH HOD, Aeronautical. Dept. Kux

Coordinator

MR. NEWTON V





Certificate of Appreciation

IS PRESENTED TO

AKASHAS

for successfully completing the

WORKSHOP ON UAV

held from 04/10/2021 TO 08/10/2021 by ACE College Of Engineering, Trivandrum.

PRINCIPAL PRINCIPAL ACE College of Engineering Thirty Indian P.O. Thirty Indian P.O. Thirty Indianaguran, 625,077

Convener

MR. SABU S JOSEPH HOD, Aeronautical. Dept. Link

Coordinator

MR. NEWTON V





Certificate of Appreciation

IS PRESENTED TO

ALIF MOHAMMED S

for successfully completing the

WORKSHOP ON UAV

held from 04/10/2021 TO 08/10/2021 by ACE College Of Engineering, Trivandrum.

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Convener

MR. SABU S JOSEPH HOD, Aeronautical. Dept. Kux

Coordinator

MR. NEWTON V





IS PRESENTED TO

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for successfully completing the

WORKSHOP ON UAV

held from 04/10/2021 TO 08/10/2021 by ACE College Of Engineering, Trivandrum.

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Coordinator

MR. NEWTON V



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From

The Head of the Department, Department of Aeronautical Engineering, ACE College of Engineering, Trivandrum

To

The Principal

ACE College of Engineering,

Trivandrum

Respected Sir

Sub: Permission for conducting an Add-on Certification Course-'Aeromodelling and Water Rocketry" Reg:-

The department of Aeronautical Engineering has planned to conduct a Five day Add-on Course named' Aeromodelling and Water Rocketry' for first year students of our department, from 21/02/2022 to 25/02/2022. Mr. Sanjay Satish, Assistant Professor of Department of Aeronautical Engineering of our college is the resource person for this 35 hour programme. The venue will be drawing hall and we will be providing certificates to those who complete the programme. The detailed course content and schedule is attached herewith for your kind approval.

Thanking You

Yours Truly

ACE TVM, 07/02/2022



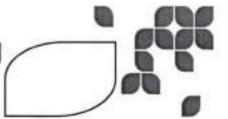


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DEPARTMENT OF AERONAUTICAL ENGINEERING

Circular

Date: 10/02/2022

We are extremely happy to inform you that the Department of Aeronautical Engineering will be conducting a 5 day Add-on course on 'Aeromodelling and Water Rocketry' for First year students of Aeronautical Engineering at Drawing hall, ACE College of Engineering from 21/02/2022 to 25/02/2022. This is a value added course, off from your curriculum and certificates will be issued to those who complete. Rest of the details of the programme and the schedule is put on the notice board, for you reference.

Students are requested to register & attend the program. Fullest cooperation is solicited for the successful conduct of the training.

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002-AEROMODELLING AND WATER ROCKETRY
Academic Year: 2021-22

Course Contents

Course Name: - Aeromodelling and Water Rockery

Course Type: - Add-On course

Course description: - The course is intended to add up to curriculum to introduce into the field of Aeronautical Engineering. The course will make students build their own gliders and water rockets. The course is designed to give knowledge as well a room to apply their knowledge. More time is allocated to practical sessions to make students have more hands on experience. There is flying sessions where individual students could get an opportunity to make their product fly. This will impart curiosity as well interest in their rest of the studies ahead. The water rocketry sessions will impart interest in aerospace field also with basics being explained and experimented. The details of each day, different sessions is as follows.

Day	Session	Topic	Hours	Type	
	Session-1	Introduction to Aeromodelling Static and Flying models Explore different categories	1hrs	PPT & Videos	
1	Session-2	Physics of Flight Overview of Flight Control Surfaces Evolutions of control systems Evolution of communication systems	2hrs	PPT & Videos	
1	Session-3	Materials for Aeromodelling. Description of Five UAVs, discussion their aerodynamics characteristics, range, endurance, stealth characteristics, missions undergone, load carrying capacities.	1.5hrs	PPT & Videos	



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	Session-4	Queries Student can clarify their ideas and one to one interaction is provided.	1hrs	
	Session-1	Introduction to Glider. • Purpose • Parts • Applications • Recent trends and developments	Ihrs	PPT
2	Session-2	Physics of Flight and control of flight ESC Flight Controller Board BLDC motor Receiver Transmitter Li-po Battery	2hrs	PPT
	Session-3	Familiarization of tools and cutting techniques The different components Frame & Legs, ESC, Flight Controller Board, BLDC motor, Receiver, Transmitter, Li-po Battery, etc. are shared with students to have look on and identify.	1.5hrs	Hands-on
	Session-4	Kit supply and selection of Glider configuration.	1hrs	
3	Session-1	Design of Glider. The students are made to form groups having maximum of 7 students in each group. The required raw materials are given to students and are guided to assemble to form a fully functional Quadcopter.	3hrs	Hands-on
3	Session-2	Construction and assembly of glider Each Quadcopter is checked prior to flying and instruction are given regarding the safe operation and allowed to fly in restricted environment.	2.5hrs	Hands-on
4	Session-1	Flying session. The students are made to form groups having maximum of 7 students in each group. The required raw materials are given to students and are guided to assemble to form a fully functional fixed wing UAV.	1hrs	Hands on



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	Session-2	Introduction to Water Rocket. Each Quadcopter is checked prior to flying and instruction are given regarding the safe operation and allowed to fly in restricted environment.	2hrs	Hands-on
	Session-3	Construction of water rocket	1.5hrs	
	Session-4	Construction of launching mechanism	1hrs	
	Session-1	Flying session. The students are made to form groups having maximum of 7 students in each group. They are given assignment to bring up with an innovation they could make in the field of UAV. Each group after discussion with group members should come up with one is mandatory.	1hrs	Interactive
	Session-2	Launching session. Each group is allowed to present their innovation by any means of presentation.	2hrs	Interactive
5	Session-3	Assessment The students are given assessment question having 15 question, each carrying 1 mark each. Student scoring min 10 marks will be declared to have passed and will be given certificate.	1.5hrs	Interactive
	Session-4	Feedback The students are given feedback sheets for the assessment of programme and also interactive session will be provided to comment on conduction of programme. End of Programme Certificates will be Issued.	1hrs	Interactive

Coordinator

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ACE CONTENT OF ENGINEERING

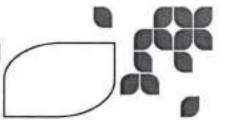
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002-AEROMODELING AND WATER ROCKETRY Academic Year: 2021-22

Resource Person Profile



Resource Person Name

: Mr. Sanjay Satish

Designation

: Assistant Professor, Department of Aeronautical Engineering

Specialization

:M.Tech Propulsion Engineering

Areas of Interest

:Hypersonic, Mechanism of machines

Teaching Experience

:1 years

Email ID

:sanjay.satish@acetvm.com

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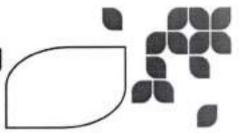
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002-AEROMODELLING AND WATER ROCKETRY Academic Year: 2021-22

Time Table

Sl. No	Date	9.00 am-10.00 am		10.15 am-12.35 pm		1.30 pm-3.00 pm		3.10 pm-4.10 pm
1	21/02/2022	Session-1 Introduction to Aeromodelling		Session -2 Physics of Flight		Session -3 Materials for Aeromodelling.		Session -4 Queries.
2	22/02/2022	Session-1 Introduction to Glider.	Break 15	Session-2 Physics of Flight and control of flight.	Lunch Break	Session-3 Familiarization of tools and cutting techniques.	Break 10	Session- Kit supply and selection of Glider configuration.
3	23/02/2022	Session -1 Design of Glider.	min	Session -1 Design of Glider.	12.35pm -1.25pm	Session -2 Construction and assembly of glider	min	Session -2 Construction and assembly of glider
4	24/02/2022	Session-1 Flying session.		Session-2 Introduction to Water Rocket.		Session -3 Construction of water rocket.		Session -4 Construction of launching mechanism.
5	25/02/2022	Session-1 Flying session.		Session-2 Launching session.		Session -3 Assessment		Session -4 Feedback.

Coordinator

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Water Rocketry



Duration:21/02/2022 - 25/02/2022

Resource Person

Mr. Sanjay Satish

Coordinator (Assistant Professor)

Mr. Al Ameen H.

Convener (HOD)
Mr. Sabu S. Joseph

Patron

Dr. Farrukh Sayeed Principal





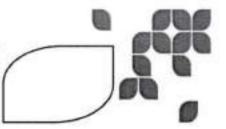
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002-AEROMODELING AND WATER ROCKETRY Academic Year: 2021-22

Students Enrolled List

Sl. No.	Register Number	Name Name	Signature
1.	ACE21AO001	AJEESH A	Aug.
2.	ACE21AO002	AKHILA RAJ	La constant of the constant of
3.	ACE21AO003	ALAN SHIBU	Manset
4.	ACE21AO004	ALEENA KRISHNAN	Alathai.
5.	ACE21AO005	ANTO LUKOSE SINGH	o.bel
6.	ACE21AO006	ARAVIND A S	RM
7.	ACE21AO007	ASHEAK NEHA N	Que I
8.	ACE21AO009	DIYA V NAMBIAR	State
9.	ACE21AO010	FADIL MUHAMMED HAPHIS	Fadil
10.	ACE21AO011	FARSANA K R	July
11.	ACE21AO012	GAVIN GEORGE LEARNEST	later -
12.	ACE21AO014	JITHIN A	OTA .
13.	ACE21AO015	KRISHNA PRAKASH	Hait broto
14.	ACE21AO016	LAKSHMI NARAYAN ANIL	1 Harding
15.	ACE21AO017	MERGU RUSHIKESH VIVEKANAND	Berger
16.	ACE21AO018	MIDHUN THOMAS	N. dhoe
17.	ACE21AO019	MOHAMMED ANSHAB	Much
18.	ACE21AO020	NANDA AJITH	Such
19.	ACE21AO021	NANDA A S	all Says
20.	ACE21AO022	NANDANA T S	Mindle
21.	ACE21AO023	REVATHI VIJAYAN	Ratio MECO
22.	ACE21AO024	RIYA GEORGE	(No)
23.	ACE21AO025	RUMAILA L	Rumaila
24.	ACE21AO026	RUQZANA	

25.	ACE21AO027	SAFA A	the state of the
26.	ACE21AO028	SAGAR XAVIER	a
27.	ACE21AO029	SHAKEEL AHAMMED	Sloakeal
28.	ACE21AO030	SHARAFIYA R	Atur
29.	ACE21AO031	SHINAS S	Round
30.	ACE21AO032	SREELEKSHMI P	2 10
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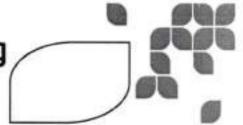
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002-AEROMODELING AND WATER ROCKETRY Academic Year: 2021-22

Attendance Sheet

SI. No.	Name	21/02/2022	22/02/2022	23/02/2022	24/02/2022	25/02/2022
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2	AKHILA RAJ	45to	Alectri-	10	At A	Ad
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20	NANDANA T S	Melane	Molara	Midna	States	Mondare-
21	REVATHI VIJAYAN	Ratil	Rate	Restal	Ratul	Bath
22	RIYA GEORGE	The	Des	Obye	Obje	Dr.
23	RUMAILA L	Rumaila.	Rumaila	Rumaila	Rumada	Rumaila
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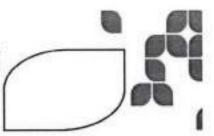
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002-AEROMODELING AND WATER ROCKETRY Academic Year: 2021-22

Course Completed Students List

SI. No.	Register Number	Name	Course Completion
1	ACE21AO001	AJEESH A	4
2	ACE21AO002	AKHILA RAJ	1
3	ACE21AO003	ALAN SHIBU	-
4	ACE21AO004	ALEENA KRISHNAN	· ·
5	ACE21AO005	ANTO LUKOSE SINGH	1
6	ACE21AO006	ARAVIND A S	1
7	ACE21AO007	ASHEAK NEHA N	1
8	ACE21AO009	DIYA V NAMBIAR	1
9	ACE21AO010	FADIL MUHAMMED HAPHIS	1
10	ACE21AO011	FARSANA K R	1
11	ACE21AO012	GAVIN GEORGE LEARNEST	1
12	ACE21AO014	JITHIN A	1
13	ACE21AO015	KRISHNA PRAKASH	1
14	ACE21AO016	LAKSHMI NARAYAN ANIL	1
15	ACE21AO017	MERGU RUSHIKESH VIVEKANAND	V
16	ACE21AO018	MIDHUN THOMAS	1 00
17	ACE21AO019	MOHAMMED ANSHAB	1
18	ACE21AO020	NANDA AJITH	1
19	ACE21AO021	NANDA A S	1
20	ACE21AO022	NANDANA T S	1 2
21	ACE21AO023	REVATHI VIJAYAN	1
22	ACE21AO024	RIYA GEORGE	1
23	ACE21AO025	RUMAILA L	1
24	ACE21AO026	RUQZANA	1
25	ACE21AO027	SAFA A	1
26	ACE21AO028	SAGAR XAVIER	1

27	ACE21AO029	SHAKEEL AHAMMED	1
28	ACE21AO030	SHARAFIYA R	1
29	ACE21AO031	SHINAS S	1
30	ACE21AO032	SREELEKSHMI P	V
31	ACE21AO033	UNNIKRISHNAN V J	1

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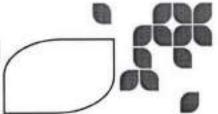
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002-Aeromodelling & Water Rocketry Academic Year: 2021-22

Assessment Questions

Instructions: Questions are of MCQ format. Answer the questions by writing the corresponding alphabet of your choice on ANS column provided. Answer all the questions. One mark for each questions.

	questions	i.						
Nar	ne of Student	:		S	emester:		• :	Date:
				(Questions			
	1. Which of th	e foll	owing woods ca			odelli	ng?	
A.	Balsa wood		Teak wood		Fir wood	D.		ANS:
	2. Which cont	rol is	used during tak	c-off:	mainly?			
A.	Rudder	B.	Aileron		Flaps	D.	Trim tabs	ANS:
	 Which cont 	rol is	used during rol	ling?				
Α.	Rudder	В.	Flaps	C.	Aileron	D.	Trim tabs	ANS:
8	4. Which cont	rol is	used during pite	ching?	85			
A.	Rudder	В.	Trim tabs	C.	Aileron	D.	Horizontal Stabilizer	ANS:
	5. Which cont	rol is	used during Ya	wing?				
A.	Trim tabs	В.	Horizontal Stabilizer	C.	Aileron	D.	Rudder	ANS:
	6. The type of	moto	r used for actua	ting n	nechanism wing	conti	rols	
A.	Servo motor	В.	Series motor	C,	Shunt motor	D.	Stepper motor	ANS:
	7. The propell	er wit	hof b	olades	is used usually	in Qu	adcopter.	
A.	2	В,	3	C.	4	D.	6	ANS:
	8. Number of	Chan	nels required fo	r cont	rolling Glider			
۸.	1	В.	3	C.	4	D.	5	ANS:
					1		75	area.

5		В.	6	C.	4	D.	3	ANS:	
10.	Function of	Trans	smitter is						
pe	o transmit ower to otor	B.	To transmit signal to Flight control board	C.	To transmit signal from Flight control board	D.	To transmit signal to motors	ANS:	
11.	The start fre	equenc	cy of ISM- Indu	strial	Scientific and I	Medic	al Radio Band i	s	
4.	33.05 MHz	В.	2.4 GHz	C,	434.79 MHz	D.	2.4835 GHz	ANS:	
12.	The type of	batter	ry mostly used i	n sma	Il Quadcopter is				
	lkaline attery	В.	Lithium – Ion Battery	C.	Nickel – Metal Hydride	D.	Nickel – Cadmium Batteries	ANS:	
13	The type of	motor	r used for actuat	ino n	echanism				
	ervo motor	B.	Series motor		BLDC	D.	Stepper motor	ANS:	
14.	The type of	motor	r used in Glider	for it	s flight is				
. S	ervo motor	В.	Series motor	C.	BLDC	D.	Stepper motor	ANS:	
15.	The function	n of re	ceiver is						
po	o receive ower from otor	В.	To receive power from flight control board	C.	To receive signal from flight control board	D.	To receive signal from Transmitter and transmit to board	ANS:	

Score secured: /15

Name of Evaluator:

Designation:

Signature:

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002-Aeromodelling and Water Rockery Academic Year: 2021-22

Assessment Marks

C1 N1		Assessment Marks	
Sl. No.	Register Number	Name	Marks (15
1	ACE21AO001	AJEESH A	15
2	ACE21AO002	AKHILA RAJ	14
3	ACE21AO003	ALAN SHIBU	15
4	ACE21AO004	ALEENA KRISHNAN	15
5	ACE21AO005	ANTO LUKOSE SINGH	14
6	ACE21AO006	ARAVIND A S	14
7	ACE21AO007	ASHEAK NEHA N	15
8	ACE21AO009	DIYA V NAMBIAR	15
9	ACE21AO010	FADIL MUHAMMED HAPHIS	15
10	ACE21AO011	FARSANA K R	15
11	ACE21AO012	GAVIN GEORGE LEARNEST	15
12	ACE21AO014	JITHIN A	15
13	ACE21AO015	KRISHNA PRAKASH	15
14	ACE21AO016	LAKSHMI NARAYAN ANIL	14
15	ACE21AO017	MERGU RUSHIKESH VIVEKANAND	14
16	ACE21AO018	MIDHUN THOMAS	15
17	ACE21AO019	MOHAMMED ANSHAB	15
18	ACE21AO020	NANDA AJITH	14
19	ACE21AO021	NANDA A S	15
20	ACE21AO022	NANDANA T S	15
21	ACE21AO023	REVATHI VUAYAN Sayee	15
22	ACE21AO024	RIYA GEORGE	15
23	ACE21AO025	RUMAILA L	15
24	ACE21AO026	RUQZANA PRINCIPAL	15
25	ACE21AO027	SAFA A Tribulanti	15
26	ACE21AO028	SAGAR XAVIER Thiravanenthapusement	14
27	ACE21AO029	SHAKEEL AHAMMED	15

28	ACE21AO030	SHARAFIYA R	15
29	ACE21AO031	SHINAS S	13
30	ACE21AO032	SREELEKSHMI P	15
31	ACE21AO033	UNNIKRISHNAN V J	15

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Coordinator

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002-Aeromodelling & Water Rocketry Academic Year: 2021-22

Assessment Questions

Instructions:	Questions of your ch questions.	oice	of MCQ form on ANS colu	at. Ai mn pi	nswer the que rovided. Answ	stions ver all	by writing the the questions.	One mo	irk for each	
Name	of Student:	N	ATI MAGA	s	emester:!		×	Date:	25/02/2	2
		S			<u>Juestions</u>	4-10				
	Which of the alsa wood	B.	owing woods co Teak wood	C.	Fir wood		Palm wood	ANS;	A	
		757	- 20.07-10110 Te Ch						22.60	
THE RESERVE THE PARTY OF THE PA		ol is	used during tak	e-off	C1 C		20-22-04-217	70000		
A R	udder	В.	Aileron	C.	Flaps	D.	Trim tabs	ANS:	c	
1	Which contr	ol is	used during rol	ling?						
A R			Flaps	C.	Aileron	D,	Trim tabs	ANS:	C	
1	Which contr	nl is	used during pit	ching'	,					
	tudder	B.	Trim tabs		Aileron	D.	Horizontal Stabilizer	ANS:	D	
5	Which contr	ol is	used during Ya	wing?	6					
	rim tabs	В.	Horizontal Stabilizer	C.	Aileron	D.	Rudder	ANS:	D.	
Eme 6	The type of	moto	r used for actua	ting n	nechanism win	g conti	rols			
	ervo motor				Shunt motor		Stepper motor	ANS:	A	
7	The propelle	er wit	h of	blades	is used usually	in Qu	adcopter.			
4 2	Contract Con		3	C.		D.		ANS:	A	
8	Number of t	Chan	nels required fo	e cont	rolling Glider					
A 1		B.	The Control of the Co		4	D.	5	ANS:	B	
			SE OF E	NGA	The same of the sa			->	- 1000	
		V	3/		2/1				DO NICIDAL	

me.	a. benunger of	chann	less required for	quad	copter				
1	3	В.	6	C,	4	D.	3	ANS:	C
	10. Function of	Trans	smitter is						
A	To transmit power to motor	В.	To transmit signal to Flight control board	C.	To transmit signal from Flight control board	D.	To transmit signal to motors	ANS:	9
ij.	LI. The start fr	equen	cy of ISM- Indu	strial	Scientific and	Medi	cal Radio Band	is	
Ā	433.05 MHz	В.	2.4 GHz	C.		D.	2.4835 GHz	ANS:	13
116	12. The type of	batter	ry mostly used i	n sma	Il Quadcopter is	32			
A	Alkaline	В.	Lithium – Ion Battery	C.	sickel – Metal Hydride	D,	Nickel – Cadmium Batteries	ANS:	В
4	13. The type of	moto	r used for actual	ing n	echanism				
A	Servo motor	В.	Series motor	Č.	BLDC	D.	Stepper motor	ANS:	В
	4. The type of	motor	r used in Glider	for it	s flight is				
A.	Servo motor	В.	Series motor	C.	BLDC	D.	Stepper motor	ANS:	C
8	5. The function	n of re	eceiver is						
1	To receive power from motor	В.	To receive power from flight control board	C.	To receive signal from flight control board	D,	To receive signal from Transmitter and transmit to board	ANS:	D

Score secured: 14/15

Name of Evaluator: Nougal Designation: A P

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Signature:

PRINC PAL ACE College of Engineering Thiruvaliam P O Thiruvanenthepuram-695 027



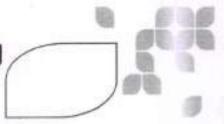
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002-Aeromodelling & Water Rocketry Academic Year: 2021-22

Assessment Questions

Questions are of MCQ format. Answer the questions by writing the corresponding alphabet

Name of Studen	. 10	d Lun Than	ed o		1		Doto	15locko
Name of Studen	ıt:			emester		•	Date.	
			(Duestions				
1. Which of	the follo	owing woods c	an be	used for Aerom	odelli	ng?		
A Balsa wood	B.	Teak wood	C.	Fir wood	D.	Palm wood	ANS:	А
2. Which co	ntrol is:	used during tak	e-off	mainly?				
A Rudder		Aileron		Flaps	D	Trim tabs	ANS:	C
3 Which co	ntrol is	used during rol	line?					
A Rudder		Flaps	C	Ailcron	D.	Trim tabs	ANS:	(_
		orani alian ya maka a maka	naran n					
		used during pit				45 20	4 9 200	^
A. Rudder	В.	Trim tabs	C	Aileron	D,	Horizontal Stabilizer	ANS:	P
5 Which co	entrol is	used during Ya	wing?	0				
A. Trim tabs	В.	Horizontal	C.		D.	Rudder	ANS:	P
		Stabilizer						
6. The type	of moto	r used for actua	ating n	nechanism wing	g contr	rols		
A Servo motor						Stepper motor	ANS:	A
7. The prop	eller wit	h of	blades	is used usualty	in Qu	adcopter.		
Λ 2	В.		C.		D.		ANS:	H
8, Number of	of Chann	nels required fo	e cont	rolling Glider			-	Saur-
		OF ENGINA	C.	4	n	5	INC.	-12

既	y Number of	chani	nels required for	quad	copter				
A	5	В.		C.	1	D.	3	ANS:	6
	10. Function of	f Tran	smitter is						
1	To transmit power to motor	В.	To transmit signal to Flight control board	C.	To transmit signal from Flight control board	D.	To transmit signal to motors	ANS:	В
	11. The start fr	equen	cy of ISM- Indu	istrial	, Scientific and l	Medi	cal Radio Band	is	
A	433.05 MHz	В.	2.4 GHz	C.		D.	2.4835 GHz	ANS:	B
ě	12. The type of	batte	ry mostly used i	n sma	all Quadcopter is				
	Alkaline Battery	В.	Lithium – Ion Battery		Nickel – Metal Hydride	D.	Nickel – Cadmium Butteries	ANS:	B
	13. The type of	moto	r used for actuat	ine n	echanism				
-	evo motor	B.	Series motor			D.	Stepper motor	ANS:	A
	14. The type of	motor	r used in Glider	for its	s flight is				
-	Servo motor	В.			BLDC	D.	Stepper motor	ANS:	2
B	5. The function	n of re	eceiver is						
1	To receive power from motor	В.	To receive power from flight control board	C	To receive signal from flight control board	D.	To receive signal from Transmitter and transmit to board	ANS:	p

Score secured: 15/15

Name of Evaluator: Naubl

Designation: A P

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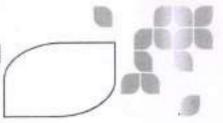
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002-Aeromodelling & Water Rocketry Academic Year: 2021-22

Assessment Questions

Instructions: Questions are of MCQ format. Answer the questions by writing the corresponding alphabet of your choice on ANS column provided. Answer all the questions. One mark for each questions.

			-	uestions					
Which of the	a fall	owing woods ca			odellis	107			
Balsa wood		Teak wood	C.	Fir wood		Palm wood	ANS:	A	
000000710000000									
Which cont	rol is	used during take	e-off i	nainly?					
Rudder		Aileron	C.	Flaps	D.	Trim tabs	ANS:	C	
Which cont	rol is	used during roll	ing?						
Rudder		Flaps		Aileron	D.	Trim tabs	ANS:	C-	
Which cont	nol is	used during pite	hino'						
Rudder		Trim tabs	C.	Aileron	D.		ANS:	D	
						Stabilizer			
Which com	trol is	used during Ya				V2 20	03250	0	
Trim tabs	В.	Horizontal Stabilizer	C.	Aileron	D.	Rudder	ANS:		
The type of	moto	r used for actua	ting n	nechanism wing	g contr	rols		140	
Servo motor	В.	Series motor	C.	Shunt motor	D.	Stepper motor	ANS:	4	
The propel	ler wit	thof b	olades	is used usualty	in Qu	adcopter.			
2		3	C.		D.		ANS:	A	
Number of	Chan	nels required fo	r cont	rolling Glider					
T	В.		6	4	D.	.5	ANS	Sayee	4
	//	OF ENGINE	1	2770.0	10.500	("	_	GIRAN	1

Tie	9. Number o		nels required fo	r quae	dcopter				
A	5	В.	6	C.	4	D.	3	ANS:	C
6	10. Function of	of Tran	smitter is						
	power to motor	B.	To transmit signal to Flight control board	C	To transmit signal from , Flight control board	D.	To transmit signal to motors	ANS:	B
	11. The start fi	requen	cy of ISM- Ind	ustrial	. Scientific and	Madi	cal Balla Bart	40	
A	433.05 MHz	В.	2.4 GHz	C,	434.79 MHz	D.	2.4835 GHz	ANS:	B
P	12. The type of	f batte	ry mostly used	in sma	ıll Quadcopter i	e .			
A	Alkaline Battery	В.	Lithium – Ion Battery	C	Nickel – Metal Hydride	D.	Nickel – Cadmium Batteries	ANS:	B
L	13. The type of	moto	used for actuar	ting n	nechanism				
A.	Servo motor	В.	Series motor		BLDC	D.	Stepper motor	ANS:	A
	he type of	motor	used in Glider	for it-	flight is				
4	Servo motor	В.	Series motor			D.	Stepper motor	ANS:	<u>_</u>
-	5. The function	n of re	ceiver is						
Λ.	To receive power from motor	В,	To receive power from flight control board	C,	To receive signal from flight control board	D.	To receive signal from Transmitter and transmit to board	ANS:	D

Score secured: 15/15

Name of Evaluator: Naufal

Designation: A P

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Signature:

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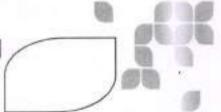


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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002-Aeromodelling & Water Rocketry Academic Year: 2021-22

Assessment Questions

Questions are of MCQ format. Answer the questions by writing the corresponding alphabet Instructions: of your choice on ANS column provided. Answer all the questions. One mark for each questions. Date: 25/01/22 ALAN. ... Semester:....\ Name of Student: Ouestions 1. Which of the following woods can be used for Aeromodelling? Fir wood Palm wood ANS: Teak wood Which control is used during take-off mainly? B. Aileron C. D. Trim tabs ANS: Rudder 3. Which control is used during rolling? Trim tabs ANS: Rudder Flaps Aileron 4. Which control is used during pitching? Horizontal ANS: Trim tabs Aileron Rudder Stabilizer 5 Which control is used during Yawing? Aileron Rudder ANS: Horizontal Trim tabs Stabilizer 6. The type of motor used for actuating mechanism wing controls Stepper motor C. Shunt motor D. Servo motor B. Series motor ANS: The propeller with of blades is used usually in Quadcopter. ANS: B. 3 C. 4 D. 2 8. Number of Channels required for controlling Glider



ANS: PRIN ACE Collec

Thiruvenanthapuram-695 027

	9. Number of	chann	tels required for	quad	copter				
T	5	В.	6	C.	4	D.	3	ANS:	c_
	10. Function of	Tran	smitter is						
A	To transmit power to motor	В.	To transmit signal to Flight control board	C.	To transmit signal from Flight control board	D.	To transmit signal to motors	ANS:	13
	The start fro	equen	cy of ISM- Indi	istrial	. Scientific and	fedic	al Radio Band	is	
A	433.05 MHz		2.4 GHz		434.79 MHz	D.	2.4835 GHz	ANS:	B
	12. The type of	batte	ry mostly used i	n smi	II Quadcopter is				
A	Alkaline Battery	В.				D.	Nickel Cadmium Batteries	ANS:	B
ı	13. The type of	moto	r used for actuar	ting n	nechanism				
A			Series motor	C.	BLDC	D.	Stepper motor	ANS:	A
·	14. The type of	motor	r used in Glider	for it	s flight is				
A-	Servo motor	B.	Series motor	C.	BLDC	D.	Stepper motor	ANS:	C
	15. The function	n of re	ceiver is						
N. STREET	power from motor	В.	To receive power from flight control board	C.	To receive signal from . flight control board	D.	To receive signal from Transmitter and transmit to board	ANS:	D

Score secured: 5 /15

Name of Evaluator; Nougal

Designation: A &

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Signature:

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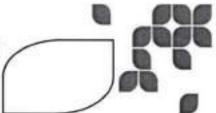
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002- AEROMODELLING AND WATER ROCKETRY

Course Summary

Course Name

: Aeromodelling and Water Rocketry

Course Duration

: 35 Hours

Course type

: Self framed Add-On course

Year offered

: Batch 2021-25 Aeronautical Students

Academic Year

: 2021-2022

Date

:From 21/02/2022 to 25/02/2022

Course Instructor

: Mr. Sanjay Satish

& Designation

Assistant Professor

Department of Aeronautical Engineering

Course outcome

Students could understand the basics of Aeromodelling and Water Rocketry. Hands-on training was given to them in detail. Different systems associated with the construction of glider and water rocket were also studied.

Assessment Mode

Attendance

: 35 Hrs

Number of Participants

: 31

Scheme of exam

: Physical Answer sheet mode

Date of exam

: 25/02/2022

Course Coordinator

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Add-On Course AO21002- AEROMODELLING AND WATER ROCKETRY Academic Year: 2021-22

Course Coordinator Report

Course Name : Aeromodelling and Water Rocketry

Course Duration : 35 Hours

Year offered : 1st Year Aeronautical Students

Course Coordinator : Mr. Al Ameen H. (Assistant Professor/ AO)

Course type : Self framed add-on course

The Certificate program of 'Aeromodelling and Water Rocketry' was conducted for the First year Aeronautical Engineering Students. The total period of 35 Hrs. has been planned and executed as per the course plan.

Assessment Mode

Number of students Enrolled : 31 Number of students Appeared : 31

Scheme of exam : Physical Answer sheet mode

Date of exam : 25/02/2022

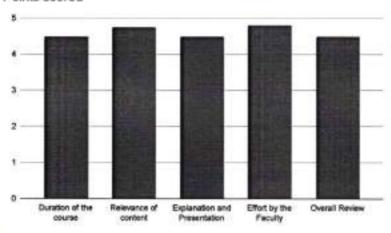
Number of students Passed : 31



Course Feedback

The feedback was obtained from the participants after the course and a detailed analysis report is listed below.





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Course Coordinator

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MOHAMMED ANSHAB

for successfully completing the course on AEROMODELLING AND WATER ROCETRY

held from 21/02/2022 TO 25/02/2022 by ACE College Of Engineering, Trivandrum.

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ACE College of Engineering
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Convener

MR. SABU S JOSEPH HOD, Aeronautical. Dept. Coordinator





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for successfully completing the course on **AEROMODELLING AND WATER ROCETRY** held from 21/02/2022 TO 25/02/2022 by ACE College Of Engineering, Trivandrum.

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Convener

MR. SABU S JOSEPH HOD, Aeronautical. Dept. ethet

Coordinator





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for successfully completing the course on **AEROMODELLING AND WATER ROCETRY** held from 21/02/2022 TO 25/02/2022 by ACE College Of Engineering, Trivandrum.

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MR. SABU S JOSEPH HOD, Aeronautical. Dept. earlite

Coordinator





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for successfully completing the course on AEROMODELLING AND WATER ROCETRY

held from 21/02/2022 TO 25/02/2022 by ACE College Of Engineering, Trivandrum.

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Convener

MR. SABU S JOSEPH HOD, Aeronautical. Dept. Coordinator





IS PRESENTED TO

LAKSHMI NARAYAN ANIL

for successfully completing the course on **AEROMODELLING AND WATER ROCETRY** held from 21/02/2022 TO 25/02/2022 by ACE College Of Engineering, Trivandrum.

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Convener

MR. SABU S JOSEPH HOD, Aeronautical. Dept. 0110

Coordinator



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From

The Head of the Department,

Department of Electronics & Communication

Engineering,

ACE College of Engineering,

Trivandrum

To

The Principal

ACE College of Engineering,

Trivandrum

Respected Sir

Sub: Requisition to permit for conducting the Add-on Certification Course - Reg:-

We the department of Electronics and communication engineering planned to conduct 5 Days (35 Hrs.) training program on 'Python Programming(ECE21003)' for 2nd Year ECE Students at ACE College of Engineering. The certification will be given by the department. The Course date and schedule are listed below for your kind approval.

Schedule Details

D	ate	Batch	
From	То		
21/2/202	25/2/2022	2 nd Year ECE	
2			

Thanking You

ACE TVM, 14/2/2022 Yours Truly

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Department of Electronics & Communication Engineering

Circular

Date: 15/2/2022

We are extremely happy to inform that Electronics and communication engineering will be conducting 5 Days (35 Hrs.) training program on 'Python Programming(ECE21003)' for Third Year ECE Students at DSP Lab, ACE College of Engineering from 21/2/2022 to 25/2/2022, students are requested to register & attend the program. Fullest cooperation is solicited for the successful conduct of the training

Coordinator

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Course Contents for Python Programming (ECE21003)

Academic Year: 2021-22

SYLLABUS:

- Introduction to Python and Computer Programming

- Python a tool, not a reptile (2 hrs)
- There is more than one Python (1 hr)
- Let's start our Python adventure(1 hr)

2 - Data Types, Variables, Basic Input-Output Operations, Basic Operators

- Your first program (1 hr)
- Python literals (1 hr)
- Operators data manipulation tools (1 hr)
- Variables data-shaped boxes (2hrs)
- How to talk to computer? (2 hrs)

3 - Boolean Values, Conditional Execution, Loops, Lists and List Processing, Logical and Bitwise Operations

- Making decisions in Python (1 hr)
- Python's loops (1 hr)
- Logic and bit operations in Python(1 hr)
- Lists collections of data(1 hr)
- Sorting simple lists the bubble sort algorithm(1 hr)
- Lists some more details (1 hr)
- Lists in advanced applications(1 hr)

4 - Functions, Tuples, Dictionaries, and Data Processing

- Writing functions in Python (1 hr)
- How functions communicate with their environment (1 hr)
- Returning a result from a function(1 hr)
- Let's make some fun... sorry, functions (2 hrs)
- Tuples and dictionaries(2 hrs)

5 - Modules, Packages, String and List Methods, and Exceptions

- Using modules (1 hr)
- Some useful modules (1 hr)
- What is package? (1 hr)
- · Errors the programmer's daily bread (1 hr)
- The anatomy of exception (1 hr)
- · Some of the most useful exceptions (2 hrs)
- String methods (1hr)
- Strings in action (1 hr)







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• www.acetym.com



Profile of Resource Person

Mr. Anshad P K (anshad.pk@acetvm.com

Mr. Anshad. P K, Assistant Professor of Department of ECE, ACE College of Engineering, Thiruvallom with more than 9 years of teaching experience. He has several research papers in reputed national and international journals and conferences. He completed his internship at SAMEER, Mumbai.

Areas of Excellence:

- · Python Programming
- Machine learning
- Deep learning
- Natural Language Processing
- Computer Vision
- · Optical Communication

Course Coordinator

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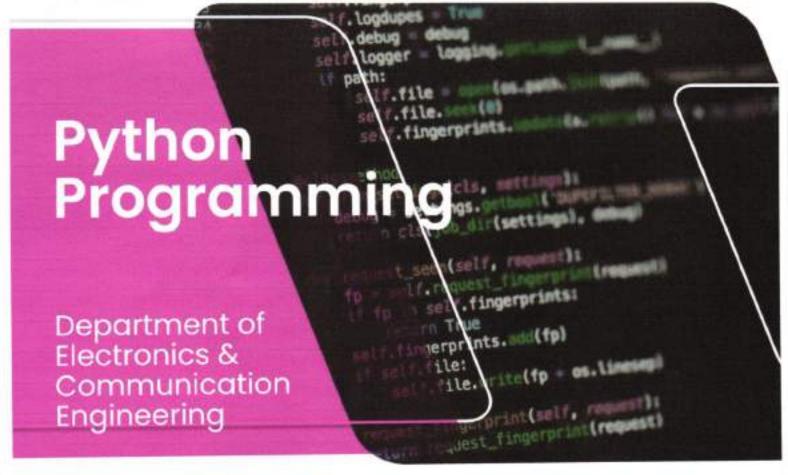


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Timetable for Python Programming (ECE21003)

DAY/	1	2	3	4		5	6	7
PERIOD	8 :40 AM - 9: 35 AM	9:35 AM - 10: 30 AM	10:45 AM-11: 40 AM	11:40 AM - 12: 35 PM		1 :25 PM - 2 : 20 PM	2:20 PM -3:10 PM	3:20 PM -4:10 PM
21/2/2022	Introduction Programm	Python -There is	a tool, not a more than or rt our Python	reptile ne Python	LUNCH 12.35PM - 1.25PM	Input-Outpu Operators Your first pro Python literal	_	Basic
22/2/2022				ed boxes		Execution, L Processing, I Operation Making decis Python's loop	nes, Condition oops, Lists an Logical and Bi tions in Python is operations in	d List twise
23/2/2022	Lists and I Operation Lists - colle Sorting sin Lists - som	alues, Conditi List Processing ections of data apple lists - the lose more details vanced applica-	g, Logical an	d Bitwise	Functions, Tuples, I Data Processing Writing functions in How functions commenvironment? Returning a result for		sing tions in Python as communicat	e with their
24/2/2022 OLLEGE OA	Processing	, Tuples, Diction some fun so dictionaries				COURT THE STATE OF	modules	g and List
the port	Errors - the	e programmer	s daily bread			String metho Strings in ac		FEEDBACK







Duration: 21/2/2022 to 25/2/2022

Resource Person

Mr. Anshad PK

Coordinator (Assistant Professor)

Afsal. S



Convener (HOD)

Dr. K. Rafeeq Ahmed

Patron Dr. Farrukh Sayeed Principal







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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Enrolled Students List for Python Programming (ECE21003)

Academic Year: 2021-22

Date: 21/2/2022

SI. No.	Register Number	Candidate Name	Signature
1.	ACE20EC001	ABHAY R	Abery
2.	ACE20EC002	ADABIYA BEEGUM R	Adabus
3.	ACE20EC003	AFRAN N	Afran
4.	ACE20EC004	AKSHAY S	A.
5.	ACE20EC005	AMILITH J S	bmil
6.	ACE20EC006	APARNA SURESH A S	Dame.
7.	ACE20EC007	ASIF S	SAR
В.	ACE20EC008	ASIF SUHAIL M N	Arris
9.	ACE20EC009	ASIYA BEEVI S	Asuja.
10.	ACE20EC010	ASWANTH B SUJAN	Swantsyer
11.	ACE20EC011	ASWIN A	A. T.
12.	ACE20EC012	BENNY VARGHESE	Against .
13.	ACE20EC013	DEVADUTT MB	Devaput.
14.	ACE20EC014	FATHIMA R	Fathine
15.	ACE20EC015	GAYATHRI R	Grayadhi.
16.	ACE20EC016	JAYALEKSHMI J R	Pagelolihmo
17.	ACE20EC017	K.H.MINU	Menin.
18.	ACE20EC018	KEERTHANA MOHAN U	Keethane.
19.	ACE20EC020	MEGHNA SARKAR	Hiegur.
20.	ACE20EC021	MOHAMED ABU RIFAS S	Smisyon
21.	ACE20EC022	MUHAMMED ISMAIL Z	Muhammedennal
22.	ACE20EC023	MUHAMMED SHEHIN	Sheh
23.	ACE20EC024	NITHISH B R	Mothers
24.			- 0

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ACE20EC025

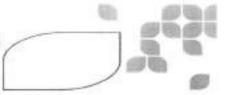
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Enrolled Students List for Python Programming

Academic Year: 2021-22

Date: 21/2/2022

SI. No.	Register Number	Candidate Name	
25.	ACE20EC026	SHEENMON BS	Sheenmers.
25.	ACE20EC027	SHERIN SHA N	Shewern
26.	ACE20EC028	SINDHU S	Sindhi.
27.	ACE20EC029	SUHDHA SULFI	Suhadase
28.	ACE20EC031	TUSHAR KRISHNAN MORE	Tushar
29.	ACE20EC032	VIPUL V V	Vepell



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Attendance Sheet for Python Programming (ECE21003)

Academic Year: 2021-22

Course from 21/2/2022 to 25/2/2022

L 0.	Student Name	21/2/2022				
_		21/2/2002	22/2/2022	23/2/2022	24/2/2022	25/2/2022
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	AFRAN N	Afsan	Afran	A	A	Afran
	AKSHAY S	AS	de	B	AS	A
	AMILITH J S	Smil	And	Amil	Amel	smil
	APARNA SURESH A S	Apame	Agame	Apami	Suparm	Aprom
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2.	BENNY VARGHESE	Benklangher	Benny	Benny	Benn	Benny
3.	DEVADUTT MB	A	A	Devapult	Dovabutt	Devadu
4.	FATHIMA R	Fathime	fahime	ta-thime	John	fathim
5.	GAYATHRI R	Gayethor	Grayethi	Gayohn	Greyothin	Grayet
6.	JAYALEKSHMI J R	Taye Lasto	Payheteh	Taystetet	Tayahotes	Jagele
7.	K.H.MINU	Minne	Mum	Minni	Bring	Munin
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Attendance Sheet for Python Programming

Academic Year: 2021-22

Course from 21/2/2022 to 25/2/2022

SI.			Kindly	Sign Against your	Name	
No.	Student Name	21/2/2022	22/2/2022	23/2/2022	24/2/2022	25/2/2022
26.	SHERIN SHA N	A	A	Shough	Shuxb	Sheur
27.	SINDHU S	Sindhy	Sindhe	Sundha	Stude	Sindhi
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Completed Students List for Python Programming (ECE21003) Academic Year: 2021-22 Date: 21/2/2022

SL. No.	Register Number	Candidate Name	Completed
i.	ACE20EC001	ABHAY R	V
2.		ADABIYA BEEGUM R	V
3.	ACE26EC602		√
4.	ACE20EC003	AFRAN N	V
5.	ACE20EC004	AKSHAY S	V
6.	ACE20EC005	AMILITH J S	- V
	ACE20EC004	APARNA SURESH A S	- V
7.	ACE20EC007	ASIF S	· ·
8,	ACE20EC008	ASIF SUHAIL M N	
9.	ACE20EC009	ASIYA BEEVI S	N
10.	ACE20EC010	ASWANTH B SUJAN	À
11.	Mark House	ASWIN A	×
12.	ACEZOEC011	BENNY VARGHESE	N
13.	ACE20EC012		V
14.	ACE26EC013	DEVADUTT MB	1
15.	ACE20EC014	FATHIMA R	√
16.	ACE20EC015	GAYATHRI R	- V
	ACE20EC016	JAYALEKSHMI J R	- 1
17.	ACEZ0EC017	K.H.MINU	- V
18.	ACE20EC018	KEERTHANA MOHAN U	
19.	ACE20EC020	MEGHNA SARKAR	.√
20.	ACE20EC021	MOHAMED ABU RIFAS S	٧.
21.	ACE20EC022	MUHAMMED ISMAIL Z	4
22.	93033302	MUHAMMED SHEHIN	4
23.	ACE20EC023		V
24.	ACE20EC024	NITHISH B R	V



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Enrolled Students List for Python Programming

Academic Year: 2021-22

Date: 21/2/2022

SI. No.	Register Number	Candidate Name	Completed
25.	ACE20EC026	SHEENMON BS	V
25.	ACE20EC027	SHERIN SHA N	٧
26.	ACE20EC028	SINDHU S	√
27.	ACE20EC029	SUHDHA SULFI	٧
28.	ACE20EC031	TUSHAR KRISHNAN MORE	- V
29.	ACE20EC032	VIPUL V V	Ŋ



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Assessment Questions for Python Programming (ECE21003) Academic Year: 2021-22

This set of IOT Multiple Choice Questions focuses on Python Programming

- 1. Who developed Python Programming Language?
 - a) Wick van Rossum
 - b) Rasmus Lerdorf
 - c) Guido van Rossum
 - d) Niene Stom
- 2. Which type of Programming does Python support?
 - a) object-oriented programming
 - b) structured programming
 - c) functional programming
 - d) all of the mentioned
- 3. Is Python case sensitive when dealing with identifiers?
 - a) no
 - b) yes
 - c) machine dependent
 - d) none of the mentioned
- 4. Which of the following is the correct extension of the Python file?
 - a) .python
 - lq. (d
 - c) .py
 - d) .p
- Is Python code compiled or interpreted?
 - a) Python code is both compiled and interpreted
 - b) Python code is neither compiled nor interpreted
 - c) Python code is only compiled
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- All keywords in Python are in _____
 - a) Capitalized
 - b) lower case
 - c) UPPER CASE
 - d) None of the mentioned







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- 7. What will be the value of the following Python expression?
 - 4 + 3 % 5
 - a) 7
 - b) 2
 - c) 4
 - d) 1
- 8. Which of the following is used to define a block of code in Python language?
 - a) Indentation
 - b) Key
 - c) Brackets
 - d) All of the mentioned
- 9. Which keyword is used for function in Python language?
 - a) Function
 - b) Def
 - c) Fun
 - d) Define
- 10. Which of the following character is used to give single-line comments in Python?
 - a) //
 - b) #
 - c)!
 - d) /*



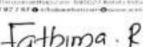
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Assessment Questions for Python Programming (ECE21003) Academic Year: 2021-22

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 - 4 + 3 % 5
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 - c) 4
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Assessment Questions for Python Programming (ECE21003) Academic Year: 2021-22

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 - b) #
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 - d) /*



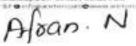
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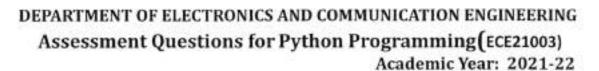
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This set of IOT Multiple Choice Questions focuses on Python Programming

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- 7. What will be the value of the following Python expression?
 - 4+3%3
 - a) 2
 - b) 2
 - c) 4
 - d) 1
- 8. Which of the following is used to define a block of code in Python language?
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 - a) //
 - b)#
 - c) !
 - d) /*



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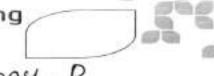
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Assessment Questions for Python Programming (ECE21003) Academic Year: 2021-22

This set of IOT Multiple Choice Questions focuses on Python Programming

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- 4 + 3 % 5
- b) 2
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- d) 1
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Assessment Questions for Python Programming (ECE21003) Academic Year: 2021-22

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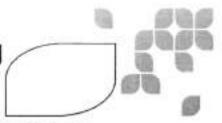
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Assessment Marks for Python Programming (ECE21003)

Academic Year: 2021-22 Date: 28/2/2022

SL No.	Register Number	Candidate Name	Marks out of 10
	ACE20EC001	ABHAY R	9
-	ACE26EC862	ADABIYA BEEGUM R	10
		AFRAN N	9
Ř.	ACESSEGS63	AKSHAY S	10
i,	ACE20EC004		10
	ACE28EC965	AMILITH J S	10
5	ACE20EC006	APARNA SURESH A S	10
N.	ACE20EC907	ASIF S	10
6.	ACEZOECOM	ASIF SUHAIL M N	10
ū.	ACE20EC009	ASIYA BEEVI S	9
1.	ACESSEC019	ASWANTH B SUJAN	10
2.	ACE20EC011	ASWIN A	10
3.	ACE20EC012	BENNY VARGHESE	9
4,	ACE20EC013	DEVADUTT MB	10
15.	ACEZOECO14	FATHIMA R	10
6.	ACEZ0EC015	GAYATHRI R	10
7.	ACE20EC016 ACE20EC017	JAYALEKSHIMI J R	9
8.	ACE38EC818	K.H.MINU	10
		KEERTHANA MOHAN U	10
9)	ACEZNECNIO	MEGHNA SARKAR	988
va.	ACE28EC121	MOHAMED ABU RIFAS S	8
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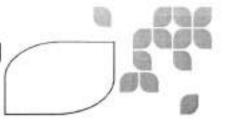
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Assessment Marks for Python Programming Academic Year:

2021-22

Date: 28/2/2022

SI. No.	Register Number	Candidate Name	Marks out of 10
26.	ACE20EC027	SHERIN SHA N	9
27.	ACE20EC028	SINDHU S	10
28.	ACE20EC029	SUHDHA SULFI	9
29.	ACE20EC031	TUSHAR KRISHNAN MORE	10
10.	ACE20EC032	VIPULVV	10



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Value Added Course Summary Report with Course Outcome 2021-2022

Course Name : Python Programming (ECE21003)

Course Duration : 35 Hours

Year offered :2nd Year ECE Students- 2021-2022

Course Instructors : Mr. Anshad P K

Assistant Professor/ ECE

Course outcome

The course is designed to provide Basic knowledge of Python. Python programming is intended for software engineers, system analysts, program managers and user support personnel who wish to learn the Python programming language. Learning Outcomes: Problem solving & programming capability.

Course type : Self framed value added course

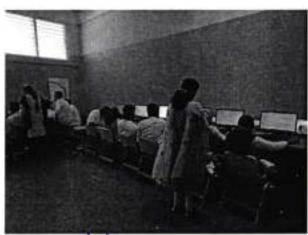
Assessment Mode

Attendance : 35 Hrs Number of Participants : 30

Scheme of exam : Physical Answer sheet mode

Date of exam : 28/2/2022

Snapshot of Python Programming Course







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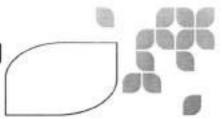


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Course Coordinator Report 2021-2022

Course Name : Python Programming (ECE21003)

Course Duration : 35 Hours

Year offered :2nd Year ECE Students- 2021-2022

Course Coordinator : Mr. Afsal. S

Assistant Professor/ ECE

Course type : Self framed value added course

The Certificate program of 'Python Programming' was conducted for the 2nd year Electronics and Communication Engineering Students. The total period of 35Hrs has been planned and executed as per the course plan.

Assessment Mode

Number of students Enrolled : 30 Number of students Appeared : 30

Scheme of exam : Physical Answer sheet mode

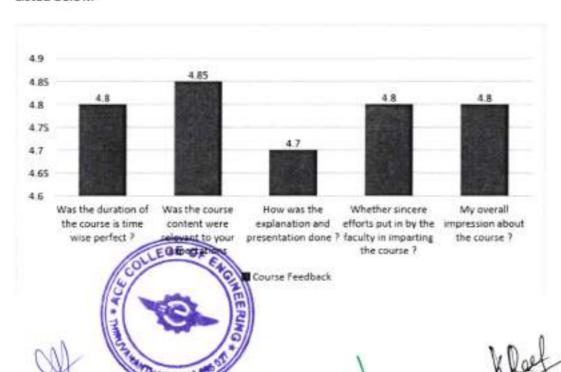
Date of exam : 28/2/2022

Number of students Passed : 30

Course Feedback:

Course Coordinator

The feedback was obtained from the participants after end the course and detailed analysis report are Listed below.



This certificate is proudly presented to:

VIPUL V V

for participating in the value added certificate program on Python Programming during 21/02/2022 to 25/02/2022 conducted by Department of Electronics and Communication Engineering at ACE college of engineering,TVM

Mr.Afsal 5

Dr.K.RAFEEQ AHMED

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Thiruvarianthapuram-695 027



This certificate is proudly presented to:

SUHDHA SULFI

for participating in the value added certificate program on Python Programming during 21/02/2022 to 25/02/2022 conducted by Department of Electronics and Communication Engineering at ACE college of engineering,TVM

Mr. Afsal S

CU-CRDINATOR

Dr.K.RAFEEQ AHMED

HOD



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This certificate is proudly presented to:

THUSHAR KRISHNAN MORE

for participating in the value added certificate program on Python Programming during 21/02/2022 to 25/02/2022 conducted by Department of Electronics and Communication Engineering at ACE college of engineering,TVM

Mr.Afsal S

Dr.K.RAFEEQ AHMED



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This certificate is proudly presented to:

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for participating in the value added certificate program on Python Programming during 21/02/2022 to 25/02/2022 conducted by Department of Electronics and Communication Engineering at ACE college of engineering,TVM

Mr. Afsal 5

CO-ORDINATOR

Dr.K.RAFEEQ AHMED

HOD



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This certificate is proudly presented to:

SHERIN SHA N

for participating in the value added certificate program on Python Programming during 21/02/2022 to 25/02/2022 conducted by Department of Electronics and Communication Engineering at ACE college of engineering,TVM

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Mr.Afsal S CO-ORDINATOR Dr.K.RAFEEQ AHMED

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From

The Head of the Department,

Department of Electronics & Communication

Engineering,

ACE College of Engineering,

Trivandrum

To

The Principal

ACE College of Engineering,

Trivandrum

Respected Sir

Sub: Requisition to permit for conducting the Add-on Certification Course - Reg:-

We the department of Electronics and communication engineering planned to conduct 5 Days (35 Hrs.) training program on 'IOT using Arduino(ECE21001)' for Third Year ECE Students at ACE College of Engineering. The certification will be given by the department. The Course date and schedule are listed below for your kind approval.

Schedule Details

Dat	e	Batch	
From	То		
11/10/2021	15/10/2021	S5 ECE	

Thanking You

ACE TVM.

4/10/2021

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Yours Truly



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Department of Electronics & Communication Engineering

Circular

Date: 6/10/2021

We are extremely happy to inform that Electronics and communication engineering will be conducting 5 Days (35 Hrs.) training program on 'IOT using Arduino(ECE21001)' for Third Year ECE Students at DSP Lab, ACE College of Engineering from 11/10/2021 to 15/10/2021. students are requested to register & attend the program. Fullest cooperation is solicited for the successful conduct of the training

Sayed

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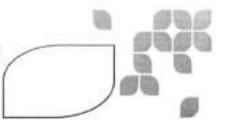




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Course Contents for IOT using Arduino (ECE21001)

Academic Year: 2021-22

SYLLABUS:

1. Introduction to IOT

- Understanding IoT fundamentals (2hrs)
- IOT Architecture and protocols (2hrs)
- · Various Platforms for IoT (2 hrs)
- · Real time Examples of IoT (1 hr)
- Overview of IoT components and IoT Communication Technologies (2hrs)
- Challenges in IOT (2 hrs)

2. Arduino Simulation Environment

- Arduino Uno Architecture (2 hrs)
- · Setup the IDE, Writing Arduino Software (1hr)
- Arduino Libraries (1 hr)
- Basics of Embedded C programming for Arduino(2hrs)
- Interfacing LED, push button (1 hr)

3. Sensor and Actuators with Arduino

- Overview of Sensors working (1hr)
- Analog and Digital Sensors (1 hr)
- Interfacing of Temperature, Humidity, Motion, Light sensors with Arduino (1hr)
- Interfacing of Actuators with Arduino. (2hrs)
- Interfacing of Relay Switch and Servo Motor with Arduino (2hrs)

4. Basic Networking with ESP8266 WiFi module

- · Basics of Wireless Networking (1 hr)
- Introduction to ESP8266 Wi-Fi Module (1 hr)
- Various Wi-Fi library(1 hr)
 - Web server- introduction, installation, configuration (1hr)
 - Posting sensor(s) data to web server (1 hr)

Cloud Platforms for IOT

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- Virtualization concepts and Cloud Architecture (2 hr)
- Cloud computing, benefits (1 hr)
- Cloud services -- SaaS, PaaS, IaaS (1 hr)

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Profile of Resource Person Mr. Asif .S (asif.shahkutty@acetvm.com)

Mr. Asif. S, Assistant Professor of Department of ECE, ACE College of Engineering, Thiruvallom with more than 5 years of teaching experience in different engineering colleges. He has several research papers in reputed national and international journals and conferences.

Areas of Excellence:

- IoT
- · Arduino Programming
- Signal Processing
- Robotics & Automation
- Information Theory and Coding
- Control Systems
- · Home Automation system

Course Coordinator

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Timetable for IOT using Arduino (ECE21001)

Academic Year: 2021-22

DAY/	1	2	3	4		5	6	7	
PERIOD	8 :40 AM - 9: 35 AM	9:35 AM - 10: 30 AM	10:45 AM - 11: 40 AM	11:40 AM - 12: 35 PM		1 :25 PM - 2 : 20 PM	2:20 PM -3:10 PM	3:20 PM -4:10 PM	
11/10/2021		Introduct rstanding 10° rchitecture a		tals ,lOT	LUNCH 12.35PM	(Various Platforms for IOT, R Time Examples of IOT)			
12/10/2021		ew of IoT co ication Tech in Io			1.25PM	(Arduino Un	mulation En no Architecto IDE, Writing	are,	
13/10/2021		Arduino Embedded Interfacing I				Sensor and Actuators with Arduino (Overview of Sensors working Analog and Digital Sensors Interfacing of Temperature, Humidity, Motion, Light sensor with Arduino)			
14/10/2021	(Interfacing of Actuators withArduino. Interfacing of Relay Switch and Servo Motor with Arduino)					(Basics of V Introduction Module	working v WiFi mod Wireless Ne on to ESP82	ule tworking	
15/10/2021	configura web serv	rver- introd ition Posting er Virtualiza chitecture)	g sensor(s)) data to				FEEDBACK	

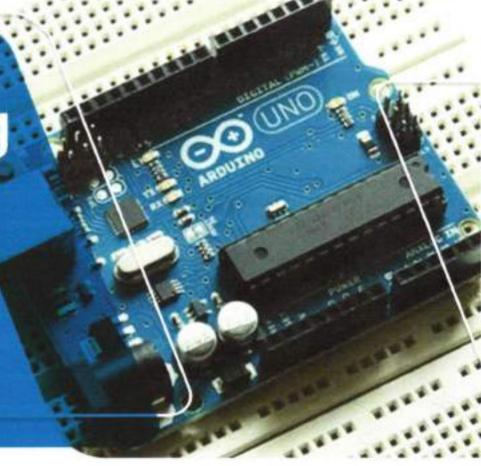
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loT using Arduino

Department of Electronics & Communication Engineering



Duration: 11/10/2021 - 15/10/2021

Resource Person Mr. Asif S

Coordinator (Assistant Professor)

Afsal. S



Convener (HOD)

Dr. K. Rafeeq Ahmed

Patron Dr. Farrukh Sayeed Principal







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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Enrolled Students List for IOT using Arduino (ECE21001)

Academic Year: 2021-22 Date: 10/10/2021

SL No.	Register Number	Candidate Name	Signature
1.	ACE19EC001	ADARSH V S	Adassb
2.	ACE19EC002	ADITHYA A M	Adolhys.
3.	ACE19EC003	AKASH SHIBU	schipus
4.	ACE19EC004	AKHIL A R	AKhil.
5.	ACE19EC005	AKHILESH S	As
6.	ACE19EC006	ALWIN JOHN	Paul
7.	ACE19EC007	ARJUN S	Air
8.	ACE19EC008	A S ASWIN	Add
9,	ACE19EC009	ASWIN M L	Deriv
10.	ACE19EC010	FAYAS D	Day.
11.	ACE19EC011	GAYATHRI S V	Canolic .
12.	ACE19EC012	NAFLA SAKHIR R	X della
13.	ACE19EC013	PARVATHY S S	Quality.
14.	ACE19EC014	RESHMI S R	Burne
15.	ACE19EC015	R GOKUL DHARMA	Gatulal
16.	ACE19EC016	R SATHYANJAN	Dokul Dharms
17.	ACE19EC017	RUKSANA T	Dates
18.	ACE19EC018	SAFA MANZOOR	C.C.
19.	ACE19EC019	SHERNA LATHEEF	Shibiet
20.	ACE19EC020	SOORAJ KUMAR JHA	0
21.	ACE19EC021	SURAJ HANMANT PATIL	Soony
22.	ACE19EC022	SUSHMI RAJAN	Justy
23.	ACE19EC023	VAISHNAVI GEETHA	Vaishnavi
24.	ACE19EC024	V L DEVIKA	
25.	LACE19EC025	RESHMA.S	Reshma



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Attendance Sheet for IOT using Arduino(ECE21001) Academic Year: 2021-22 Course from 11/10/2021 to 15/10/2021

Kindly Sign Against your Name SL Student Name 14/10/2021 No. 11/10/2021 12/10/2021 13/10/2021 15/10/2021 ADARSH V S ADITHYA A M 1 AKASH SHIBU 4. AKHIL A R 5. AKHILESH S 6, ALWIN JOHN ARJUN S B. A S ASWIN 9. ASWIN M L 10. FAYAS D 11. GAYATHRI S V NAFLA SAKHIR R 13, PARVATHY S S 14 RESHMIS R 15. R GOKUL DHARMA 16. R SATHYANJAN 17. RUKSANA T tē. SAFA MANZDOR 19. SHERNA LATHEEF 20. SOORAJ KUMAR JHA 23. SURAJ HANMANT PATIL 22 SUSHMI RAJAN 23. VAISHNAVI GEETHA 24 V L DEVIKA 25. RESHMA.5

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Completed Students List for IOT using Arduino (ECE21001) Academic Year: 2021-22 Date: 10/10/2021

SI. No.	Register Number	Candidate Name	Completed
1.	ACE19EC001	ADARSH V S	٧
2.	ACE19EC002	ADITHYA A M	٧
3.	ACE19EC003	AKASH SHIBU	٧
4.	ACE19EC004	AKHIL A R	٧
5.	ACE19EC005	AKHILESH S	V
6.	ACE19EC006	ALWIN JOHN	٧
7.	ACE19EC007	ARJUN S	V
8.	ACE19EC008	A S ASWIN	٧
9.	ACE19EC009	ASWIN M L	٧
10.	ACE19EC010	FAYAS D	٧
11.	ACE19EC011	GAYATHRI S V	V
12.	ACE19EC012	NAFLA SAKHIR R	٧
13.	ACE19EC013	PARVATHY S S	٧
14.	ACE19EC014	RESHMI S R	٧
15.	ACE19EC015	R GOKUL DHARMA	٧
16.	ACE19EC016	R SATHYANJAN	٧
17.	ACE19EC017	RUKSANA T	٧
17.	ACE19EC018	SAFA MANZOOR	٧
19.	ACE19EC019	SHERNA LATHEEF	٧
20.	ACE19EC020	SOORAJ KUMAR JHA	٧
21.	ACE19EC021	SURAJ HANMANT PATIL	٧
22.	ACE19EC022	SUSHMI RAJAN	A
23.	ACE19EC023	VAISHNAVI GEETHA	¥
24.	ACE19EC024	V L DEVIKA	٧
25. 695 92	LACE19EC025	RESHMA.S	V





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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Assessment Questions for IOT using Arduino (ECE21001)

Academic Year: 2021-22

	This set of IOT Multiple	Choice Questions (MCQs)	focuses on "Arduino".
--	--------------------------	-------------------------	-----------------------

- How many types of arduinos do we have?
 - a) 5
 - b) 6
 - c) 8
 - d) 6
- 2. What is the microcontroller used in Arduino UNO?
- a) ATmega328p
- b) ATmega2560
- c) ATmega32114
- d) AT91SAM3x8E
- 3. What does p refer to in ATmega328p?
 - a) Production
 - b) Pico-Power
 - c) Power-Pico
 - d) Programmable on chip
- 4. Arduino shields are also called as _____
 - a) Extra peripherals
 - b) Add on modules
 - c) Connectivity modules
 - d) Another Arduinos
- 5. What is the default bootloader of the Arduino UNO?
 - a) Optiboot bootloader
 - b) AIR-boot
- c) Bare box
- d) GAG
- Does the level shifter converts the voltage levels between RS-232 and transistor-transistor logic.
 - a) True







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7.	Which is the software	ога	programming	language used	for controlling of a	Arduino?
----	-----------------------	-----	-------------	---------------	----------------------	----------

- a) Assembly Language
- b) C Languages
- c) JAVA
- d) Any Language
- 8. Do Arduino provides IDE Environment?
 - a) True
 - b) False
- 9. A program written with the IDE for Arduino is called _____
 - a) IDE source
 - b) Sketch
 - c) Cryptography
 - d) Source code
- 10. Which board is first to use microcontroller within build USB?
 - a) LilyPad
 - b) UNO
 - c) RedBoard
 - d) Leonardo



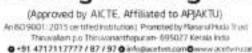
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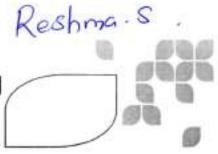


a) True

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				ons (MCQs) focu	ises on "Arduir	10".
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	8					
0.000) 6					
1000	Company of the control of the contro	microcontrolle	r used in Ardu	ino UNO?		
	ATmega328					
	ATmega256	Section Section				
	ATmega321					
	AT915AM3					
3. W	/hat does p re	fer to in ATmega	328p?			
a)	Production				COLLEGE	De Co
b)	Pico-Power				T Dans	JON NO.
c)	Power-Pico			(NEERI
d)	Programmabl	le on chip		8)		5
4. Ard	luino shields :	are also called as	<u></u>		TANKAM SA	1
a)	Extra peripho	erals			750	year
b)	Add on modu	iles				J.
c)	Connectivity	modules				Secretaria est
d)	Another Ardu	iinos			PRIN	of Engineering
5. W	hat is the defa	ult bootloader of	the Arduino UN	NO?	Thiny	apuram-895 02
a) (Optiboot boot	loader			Hilliam	
b) A	AIR-boot					
c) B	are box					
d) (GAG					
6. Doe	s the level shi	fter converts the	voltage levels b	etween RS-232 an	nd transistor-tra	nsistor logic.

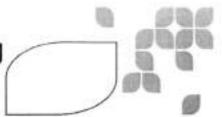


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7. Which is the software or a programming language used for controlling of Arduino?
a) Assembly Language
b) C Languages
c) JAVA
d) Any Language
8. Do Arduino provides IDE Environment?
a) True
b) False
9. A program written with the IDE for Arduino is called
a) IDE source
b) Sketch
c) Cryptography
d) Source code
10. Which board is first to use microcontroller within build USB?
a) LilyPad
b) UNO
c) RedBoard



d) Leonardo



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Assessment Questions for IOT using Arduino (ECE21001)

Academic Year: 2021-22

This set of IOT Multiple Choice Questions (MCQs) focuses on "Arduino".

1. How many	types	of	arduinos	do	we have:	1
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- b) 6
- c) 8
- 2. What is the microcontroller used in Arduino UNO?
- a) ATmega328p
- b) ATmega2560
- c) ATmega32114
- d) AT91SAM3x8E
- 3. What does p refer to in ATmega328p?
 - a) Production
 - b) Pico-Power
 - c) Power-Pico
 - d) Programmable on chip
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 - c) Connectivity modules
 - d) Another Arduinos
- 5. What is the default bootloader of the Arduino UNO?
 - a) Optiboot bootloader
 - b) AIR-boot
- c) Bare box
- d) GAG
- Does the level shifter converts the voltage levels between RS-232 and transistor-transistor logic.





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7	Which is the software or :	nrogramming	language u	sed for cor	strolling.	of Ardu	ino?

- a) Assembly Language
- b) C Languages
- c) JAVA
- d) Any Language
- 8. Do Arduino provides IDE Environment?
 - a) True
 - b) False
- A program written with the IDE for Arduino is called _____
 - a) IDE source
 - b) Sketeh
 - c) Cryptography
 - d) Source code
- 10. Which board is first to use microcontroller within build USB?
 - a) LilyPad
 - b) UNO
 - c) RedBoard
 - d) Leonardo



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Assessment Questions for IOT using Arduino (ECE21001)



Academic Year: 2021-22

This set of	IOT Mu	ltiple	Choice	Questions	(MCQs)	focuses	on "Arduino"	,
	14.05 TO 4.50							

	This set of IOT Multiple Choice Questions (MCQs) focuses on "Arduino"
1.1	low many types of arduinos do we have?
a	5
b	6
()	8
ď	6

- 2. What is the microcontroller used in Arduino UNO?
- a) ATmega328p
- b) ATmega2560
- c) ATmega32114
- d) AT91SAM3x8E
- 3. What does p refer to in ATmega328p?
 - a) Production
- Pico-Power
- c) Power-Pico
- d) Programmable on chip
- 4. Arduino shields are also called as
 - a) Extra peripherals
 - b) Add on modules
 - c) Connectivity modules
 - d) Another Arduinos
- 5. What is the default bootloader of the Arduino UNO?
 - a) Optiboot bootloader
 - b) AIR-boot
- ca Bare box
- d) GAG
- 6. Does the level shifter converts the voltage levels between RS-232 and transistor-transistor logic.
 - a) True



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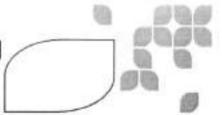
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7. Which is the software or a programming language used for controlling of Arduino?
a) Assembly Language
b) C Languages
c) JAVA
d) Any Language
8. Do Arduino provides IDE Environment?
a) True
b) False
9. A program written with the IDE for Arduino is called
a) IDE source
b) Sketch
c) Cryptography
d) Source code
10. Which board is first to use microcontroller within build USB?
a) LilyPad
b) UNO
c) RedBoard
d) Leonardo





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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Assessment Questions for IOT using Arduino (ECE21001)

Academic Year: 2021-22

	This set of	IOT Multiple	Choice Questio	ns (MCQs)	focuses on	"Arduino".
400		The second second	1			

- How many types of arduinos do we have?
 - a) 5
 - b) 6
- c) 8
- d) 6
- 2. What is the microcontroller used in Arduino UNO?
- a) ATmega328p
- b) ATmega2560
- c) ATmega32114
- d) AT91SAM3x8E
- 3. What does p refer to in ATmega328p?
 - a) Production
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- 6. Does the level shifter converts the voltage levels between RS-232 and transistor-transistor logic.
 - a) True



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 - c) RedBoard
 - d) Leonardo



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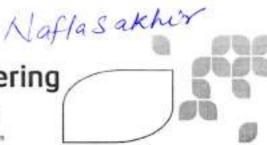
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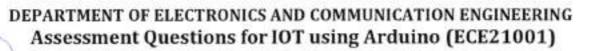
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Academic Year: 2021-22

This set of IOT Multiple Choice Questions (MCQs) focuses on "Arduir	10".
How many types of arduinos do we have?	

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b) 6

c) 8

d) 6

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b) ATmega2560

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d) GAG

6. Does the level shifter converts the voltage levels between RS-232 and transistor-transistor logic.

a) True





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7.	Which is the software or a	programming la	anguage used for	controlling of Arduino?
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- a) Assembly Language
- b) C Languages
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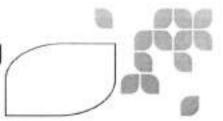
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Assessment marks for IOT using Arduino (ECE21001)

Academic Year: 2021-22 Date: 22/10/2021

SL No.	Register Number	Candidate Name	Marks out of 10	
1.	ACE19EC001	ADARSH V S	9	
2.	ACE19EC002	ADITHYA A M	9	
X.	ACE19EC003	AKASH SHIBU	.8	
6.	ACE19EC004	AKHIL A R	10	
5.	ACE19EC005	AKHILESH S	10	
6.	ACE19EC006	ALWIN JOHN	10	
7.	ACE19EC007	ARJUN S	10	
B.	ACE19EC008	A S ASWIN	8	
9.	ACE19EC009	ASWIN M L	9	
14.	ACE19EC010 FAYAS D		9	
15,	ACE19EC011 GAYATHRI S V		10	
12.	ACE19EC012	NAFLA SAKHIR R	9	
13.	ACE19EC013	PARVATHY S S	10	
14.	ACE19EC014	RESHMI 5 R	10	
15.	ACE19EC015	R GOKUL DHARMA	10	
16.	ACE19EC016	R SATHYANJAN	9	
17.	ACE19EC017	RUKSANA T	10	
18.	ACE19EC018	SAFA MANZOOR	10	
19.	ACE19EC019	SHERNA LATHEEF	9	
a.	ACE19EC020	SOORAJ KUMAR JHA	10	
4.	ACE19EC021	SURAJ HANMANT PATIL	10	
22,	ACE19EC022	SUSHMI RAJAN	9	
23.	ACE19EC023	VAISHINAVI GEETHA	10	
14.	ACE19EC024	V L DEVIKA	10	
25.	LACE19EC025	RESHMA.S	10	

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Value Added Course Summary Report with Course outcome 2021-2022

Course Name

: IoT using Arduino(ECE21001)

Course Duration

: 35 Hours

Year offered

:3rd Year ECE Students- 2021-2022

Course Instructors

: Mr. Asif .S

Assistant Professor/ ECE

Course outcome

The students would be able understand the pros of IoT in modern day life, shall learn programming in microcontroller and get hands on experience in designing various IoT applications.

Course type

: Self framed value added course

Assessment Mode

Attendance

: 35 Hrs

Number of Participants

: 25

Scheme of exam

: Physical Answer sheet mode

Date of exam

: 18/10/2021

SNAPSHOT OF COURSE INT USING ARDUINO



Course Coordinator

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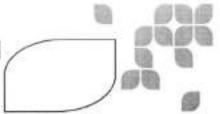
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Course Coordinator Report 2021-2022

Course Name : IoT using Arduino(ECE21001)

Course Duration : 35 Hours

Year offered :3rd Year ECE Students- 2021-2022

Course Coordinator : Mr. Afsal. S

Assistant Professor/ ECE

Course type : Self framed value added course

The Certificate program of 'loT using Arduino' was conducted for the 3rd year Electronics and Communication Engineering Students. The total period of 35Hrs has been planned and executed as per the course plan.

Assessment Mode

Number of students Enrolled : 25 Number of students Appeared : 25

Scheme of exam : Physical Answer sheet mode

Date of exam : 18/10/2021

Number of students Passed : 25

Course Feedback :

The feedback was obtained from the participants after end the course and detailed analysis report are Listed below.









ADARSH VS

for participating in the value added certificate program on IoT using Arduino during 11/10/2021 to 15/10/2021 conducted by Department of Electronics and Communication Engineering at ACE college of engineering, TVM

Mr. Afsal S CO-ORDINATOR

Dr. K. RAFEEQ AHMED











ADITHYA A M

for participating in the value added certificate program on IoT using Arduino during 11/10/2021 to 15/10/2021 conducted by Department of Electronics and Communication Engineering at ACE college of engineering TVM

Mr. Afsal S CO-ORDINATOR

Dr. K. RAFEEQ AHMED











AKASH SHIBU

for participating in the value added certificate program on IoT using Arduino during 11/10/2021 to 15/10/2021 conducted by Department of Electronics and Communication Engineering at ACE college of engineering, TVM

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Dr. K. RAFEEQ AHMED

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AKHIL A R

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Mr. Afsal S CO-ORDINATOR

Dr. K. RAFEEQ AHMED

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AKHILESH S

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Mr. Afsal S CO-ORDINATOR

Dr. K. RAFEEQ AHMED

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From

The Head of the Department,

Department of Electronics & Communication

Engineering,

ACE College of Engineering,

Trivandrum

To

The Principal

ACE College of Engineering,

Trivandrum

Respected Sir

Sub: Requisition to permit for conducting the Add-on Certification Course - Reg:-

We the department of Electronics and communication engineering planned to conduct 5 Days (35 Hrs.) training program on 'Data Science(ECE21002)' for Fourth Year ECE Students at ACE College of Engineering. The certification will be given by the department. The Course date and schedule are listed below for your kind approval.

Schedule Details

D	ate	Batch		
From	То			
14/3/202	18/3/2022	S8 ECE		
2				

Thanking You

ACE TVM, 7/3/2022

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Yours Truly



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Department of Electronics & Communication Engineering

Circular

Date: 9/3/2022

We are extremely happy to inform that Electronics and communication engineering will be conducting 5 Days (35 Hrs.) training program on 'Data Science(ECE21002)' for Third Year ECE Students at MC Lab, ACE College of Engineering from 14/3/2022 to 18/3/2022, students are requested to register & attend the program. Fullest cooperation is solicited for the successful conduct of the training

Coordinator

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Course Contents for Data Science (ECE21002)

Academic Year: 2021-22

SYLLABUS:

1. Introduction to Data science & Machine Learning Algorithms

Definition of data science (1 hr)
importance (2hrs)
basic applications (1 hr)
Using mathematical models or algorithms to recognize patterns (1hr)
classification (1 hr)
predictions about a dataset. (1 hr)

2. Artificial Intelligence & Data Visualization

- Creation of algorithms to create a machine capable of problem-solving capabilities like a human.(4 hrs)
- · Data representation in form of a chart, diagram, plot, etc (3 hrs)

3. Data Analysis & Coding (Python, SQL, Java)

- Formatting or modeling data to discover insights using algorithms. (4 hrs)
- Basic coding to organize unstructured data. (3hrs)

4. Optimization Techniques & Statistics

- Optimization of software that is used in data extraction to gain the maximum output with limited resources. (4 hrs)
- Statistics is used to draw insights from data and apply appropriate mathematical models to variables. (3hrs)

5. Big Data & Predictive Analysis

- Managing enormous data sets to make extraction and data analysis easier.(4 hrs)
- Use of data, algorithms, and models to predict outcomes based on historical data.(2 hrs)





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Profile of Resource Person

Ms. Hima Vijayan V P
(hima.vijayan@acetvm.com)

Ms. Hima Vijayan V P, Assistant Professor of Department of ECE, ACE College of Engineering, Thiruvallom with more than 10 years of teaching experience in different engineering colleges, she has more than 10 research papers in reputed national and international journals and conferences. She is currently Pursuing her PhD under KTU.

Areas of Excellence:

- · Machine learning
- · Deep learning
- Natural Language Processing
- · Computer Vision
- Python Programming
- · Artificial Intelligence

Course Coordinator

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Timetable for Data Science (ECE21002)

Academic Year: 2021-22

DAY/	1	2	3	4		5	6	7	
PERIOD	8 :40 AM - 9: 35 AM	9:35 AM - 10: 30 AM	10:45 AM - 11: 40 AM	11:40 AM - 12: 35 PM		1 :25 PM - 2 : 20 PM	2:20 PM -3:10 PM	3:20 PM -4:10 PM	
14/3/2022	(Definition of data science				LUNCH 12.35PM - 1.25PM	algorithms classification	ematical mo to recognize on about a data	patterns	
15/3/2022	Artificial Intelligence & Data Visualization Creation of algorithms to create a machine capable of problem-solving capabilities like a human.				Visualization Creation of algorithms to create a machine capable of problem-solving capabilities like		Data representation in form of a chart, diagram, plot, etc		
16/3/2022	Data Analysis & Coding (Python, SQL, Java) Formatting or modeling data to discover insights using algorithms.				Basic codin unstructure	g to organiz d data.	c		
17/3/2022	7/3/2022 Optimization Techniques & Statistics Optimization of software that is used in data extraction to gain the maximum output with limited resources.			at is used in		Statistics is used to draw insight from data and apply appropriate mathematical models to variable			
18/3/2022	Big Data & Predictive Analysis Managing enormous data sets to make extraction and data analysis easier.					Use of data algorithms, models to p outcomes be historical da	and redict ased on	FEEDBACK	













Duration: 14/3/2022 - 18/3/2022

Resource Person Ms. Hima Vijayan V P

Coordinator (Assistant Professor)

Afsal. S

Convener (HOD)

Dr. K. Rafeeq Ahmed



Patron Dr. Farrukh Sayeed Principal





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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Enrolled Students List for Data Science (ECE21002)

Academic Year: 2021-22 Date: 13/3/2022

SI. No.	Register Number	Candidate Name	Signature
1,	9560 810 888 8	C exposure constant	ALL Saut
-	ACE18EC001	ABHIJEETH NAIR	Abhyeeth
2,	ACE18EC002	ABHIJITH.B.R	Alfred _
3.	100-02-20 ASSESSED	500000000000000000000000000000000000000	111
_	ACE18EC003	ABHIRAM.A	Abhuar
4.	ACE18EC004	AKHIL.A.R	AKhil
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-	ACE18EC006	AMINA S SIRAJ	Hmina
6.	ACE18EC007	ANANDHU A S	Se
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9.	ACE18EC009	ARUNIMA M. S	Aninime.
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	ACE18EC022	NITHIN N. S	Dang.
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	ACE18EC024	SHABANA AHAMMED S	Shari
23.		120201000000000000000000000000000000000	Shahas
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Enrolled Students List for Data Science

Academic Year: 2021-22 Date: 13/3/2022

SI. No.	Register Number	Candidate Name
25.	ACE18EC028	SIJITH RAJ S. R hjuth
26.	ACE18EC029	SOORALR SOOLAS
27.	ACE18EC030	SOUPARNIKA PANICKBRS
28.	ACE18EC031	VARSHAS Vauha
29.	ACE18EC032	VINOBA V. M VINOBON
30.	LACE18EC033	NEETHUPB Neether
31.	LACE18EC034	SAURAV B NAIR Sauray
32.	ACE17EC012	KATURI SEKIL Katuri





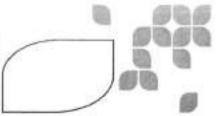


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Attendance Sheet for Data Science (ECE21002)

Academic Year: 2021-22

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Course from 14/3/2022 to 18/3/2022

SI.		Kindly Sign Against your Name						
No.	Student Name	14/3/2022	15/3/2022	16/3/2022	17/3/2022	18/3/2022		
1.	ABHIJEETH NAIR	Abhyent	Aphyeed	Abhyeet	Abhyeet	Abhyeed		
2	ABHIJITH.B.R	Abhert	Abhath	Abhirt	Abhart	Abhyith		
	ABHIRAMA	Athran	Abhren	Aphirers	Alhran	Ablano		
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6.	ANANDHU A S	AAS	Als	AAr	A	AAS		
7,	APARNA S NAIR	ADame	Aparne	Apan	Apany	Apan		
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90	ARUN VIJAY	Amor	Dryper	Augus	Augry	Anns		
10.	ASMINA NAZAR	Asmin	Asmon	Asmin	Asmin	Asmin		
11.	B. DEEKSHITHA BAI	Deekshill	Dookohdh'	Decksholls	Dockship	Docksk		
12.	DEVIKA THANKACHY G.	Denk	Devile	Devila	Donk	Donle		
13,	EMAD MORAMMED SIDDIK	Emy	Finad	Emed	Amad	Emed		
14.	KRISHNAPRIYA S. A	Krisharhan	Kroheter	Knyleday	Krishechen	Krisheet		
15.	M, MOHAMMED SWALIH	A	A	MoSham	Mohn	Moth		
16.	MOHAMED ASIF	Asif	deid	Asit	ASH	Pol		
17.	M. RUBAN	Ruban	Puban	Paper	Ruhan	Ruben		
18.	NADIYA NOUSHAD N	Wadeelle	Morey	Nadise	Nadwe	Naday		
19.	NAJMA A. S.	Marme	Dam	Nam.	Marian	Klauna		
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Attendance Sheet for Data Science

Academic Year: 2021-22

Course from 14/3/2022 to 18/3/2022

SI.	SUTDIVISIONALIVE	Kindly Sign Against your Name					
No.	Student Name	14/3/2022	15/3/2022	16/3/2022	17/3/2022	18/3/2022	
26.	SOORAJ R	a	Sooney	Socraj	80009	80009	
27.	SOUPARNIKA PANICKER S.D	Corp	Soog	ax	Story	800	
28.	VARSHA S	· Ac	1	Nac	Var	Nau	
29.	VINOBA V. M	al	2	A.	2	at	
30.	NEETHU P B	D.	ac	all	all	elle.	
31.	SAURAV B NAIR	Samay	Sunal	Samar	Swinn	a.,	
32.	KATURI SEKIL	Ta	Katuil	Katuri	Katur	· Kalu	



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Completed Students List for Data Science (ECE21002)

Academic Year: 2021-22 Date: 13/3/2022

SI. No.	Register Number	Candidate Name	Completed
1,			V
2.	ACE18EC001	ABHIJEETH I NAIR	V
333	ACE18EC002	ABHIJITH.B.R	165
3.	ACCUMENTS		N
4.	ACE18EC003	ABHIRAM.A	:V
	ACE18EC004	AKHILAR	
5.	ACE18EC006	AMINA S SIRAI	٧
6.	MULEODUNG	APITAL S SIDAL	N
_	ACE18EC007	ANANDHU A S	
7.	ACE18EC008	APARNA S NAIR	38
8.	- Partition of	76 Most 3 Main	×
	ACE18EC009	ARUNIMA M. S	
9.	ACE18EC010	ARUN VIIAY	¥
10.	1.0000000000	T POR PROPERTY.	¥
11.	ACE18EC011	ASMINA NAZAR	
1.1.	ACE18EC012	B. DEEKSHITHA BAI	V
12.		2 STATISTICAL 12	V
13.	ACE18EC013	DEVIKA THANKACHY G. S	- V
1.3.	ACE18EC014	EMAD MOHAMMED SIDDIK	
14.	MARKS WEST	Mathematical Control	V
15.	ACE18EC016	KRUSHNAPRIYA S. A	v.
4.00	ACE18EC017	M. MOHAMMED SWALLH	- 3.
16.	2022/00/2020/00/2020		N
17.	ACE18EC018	MOHAMED ASIF	√
***	ACE18EC019	M. RUBAN	- 27
18.	125525055		¥
19.	ACE18EC020	NADIYA NOUSHAD N	4
	ACE18EC021	NAJMA A. S	
20.	00000000000000	5000000000	¥
21.	ACE18EC022	NITHIN N. 5	v.
	ACE18EC023	SARATH CHANDRAN	
22.		93-1-37/00-1-1-30/100	¥
23.	ACE18EC024	SHABANA AHAMMED S	7
70	ACE18EC025	SHAHAR BANU H	
24.	WXX-10903-5-500-5	Reserve Serveron	V
	ACE18EC027	SHIBIN DILEEP	





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Econolista Students List for Data Science

Academic Year: 2021-22

Date: 13/3/2022

Sl. No.	Register Number	Candidate Name	completed
25.	ACE18EC028	SIJITH RAJ S. R	4
26.	ACE18EC029	SOORALR	4
27.	ACE18EC030	SOUPARNIKA PANICKER S.D.	Ý
28.	ACE18EC031	VARSHA S	Ý
29.	ACE18EC032	VINOBA V. M	Ý
30.	LACE18EC033	NEETHU P B	Ý
31.	LACE18EC034	SAURAV B NAIR	Ŋ
32.	ACE17EC012	KATURI SEKIL	*



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Assessment Questions for Data Science (ECE21002) Academic Year: 2021-22

This set of IOT Multiple Choice Questions focuses on Data Science

- 1. Data science is the process of diverse set of data through?
 - A. Organizing data
 - B. Processing data
 - C. Analysing data
 - D. All of the above
- 2. Point out the correct statement.
 - A. Raw data is original source of data
 - B. Preprocessed data is original source of data
 - C. Raw data is the data obtained after processing steps
 - D. None of the above
- 3. How do we perform Bayesian classification when some features are missing?
 - A. We integrate the posteriors probabilities over the missing features
 - B. We ignore the missing features
 - C. We assuming the missing values as the mean of all values
 - D. Drop the features completely
 - 4. The modern conception of data science as an independent discipline
 - is sometimes attributed to?
 - A. John McCarthy
 - B. Arthur Samuel
 - C. William S.
 - D. Dennis Ritchie
 - graph displays information as a series of data points connected by straight line segments.
 - A. Bar
 - B. Scatter
 - C. Histogram
 - D. Line





6. Data fishing is sometimes referred to as

- A. Data bagging
- B. Data dredging
- C. Data merging
- D. None of the mentioned
- 7. Which is one of the significant data science skills?
- A. Statistics
- B. Data Visualization
- C. Machine Learning
- D. All of the above
- 8. A method used to make vector of repeated values?
- A. read()
- B. data()
- C. rep()
- D. view()
- 9. Which of the following step is performed by the data scientist after acquiring the data?
- A. Data Replication
- B. Data Integration
- C. Data Cleansing
- D. All of the Mentioned
- K- nearest neighbors algorithm is based on _ learning
- A. Supervised
- B. Unsupervised
- C. Association
- D. Correlation

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ACE College of Engineering





Assessment Questions for Data Science (ECE21002)

Academic Year: 2021-22

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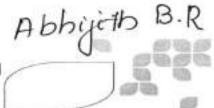


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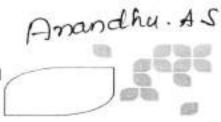
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Assessment Questions for Data Science (ECE21002)

Academic Year: 2021-22

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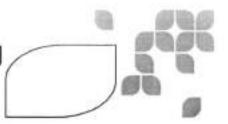
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Assessment Marks for Data Science (ECE21002)

Date: 22/3/2022 Academic Year: 2021-22

SI. No.	Register Number	Candidate Name	Marks out of 10
1.	7244344447	Annual Control of Cont	10
4	ACE18EC001	ABHIJEETH NAIR	10
	ACE18E0902	ABHUTH.B.R	
	ACE18EC003	ABHIRAMA	1
	7001400000	790000000	10
1	ACE18EC004	AKHILAR	10
	ACE18ECRO6	AMINA S SIRAI	(2.50)
	+CE-OFCOOT	ARABANIA S	9
i.	ACE18EC007	ANANDHU A.S	10
	ACE18EC008	APARNA S NAIR	10
8.7	ACE18E0009	ARUNIMA M. S	10
4			10
10.	ACK18E0010	ARUN VIIAY	9
	ACE18EC011	ASMINA NAZAR	
n.	Activations	P POTENTIAL DATE	.10
18.	ACE1HEC012	B. DEEXSHITHA BAJ	10
	ACE18EC013	DEVIKA THANKACHY G. S	9
13.	ACE18EC014	EMAD MOHAMMED SIDDIK	
14:	20000000000	- Econosciencios	10
15.	ACE18EC016	KRISHINAPRIYA.S. A.	10
	ACE18EC017	M. MOHAMMED SWALIH	420
16	ACCEPTOCOLO	AADDIAMED ACIE	10
12.	VCE18EC018	MORAMED ASIF	9
1	ACE18EC019	M. RUBAN	10
"	ACE18EC020	NADIYA NOUSHAD N	
16.	200000000000000000000000000000000000000	UZ2000ANGUS	10
-	ACE18EC021	NAJMA A. S	9
28.	ACE18EC022	NITHIN N. S	11590
n.	Was to come	- C.C. III. (COC)	19
32	ACE18EC023	SARATH CHANDRAN	10
1.50	ACE18EC024	SHABANA AHAMMED S	
22.	*CE10ECOZE	CHARLED DANIES	10
24.	ACE1BEC025	SHAHAR BANU H	9
	ACH18EC027	SHIBIN DILEEP	10
West of	ACE18EC028	SUITH RAJ S. R	10
	110010101010	- Appril 10 p. S. P.	





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Assessment Marks for Data Science Academic Year: 2021-22

Date: 22/3/2022

SI. No.	Register Number	Candidate Name	Marks out of 10
26.	ACELARITOTO	SOORAL R	10
ix.	ACE18EC029	SOUPARNIKA PANNOKER S. D.	19
18:	ACE18EC031	VARSHA S	9
29.	ACE18EC032	VINOBA V. M	10
00.	LACE18EC033	NEETHU P.B.	10
31.	LACELBECO34	SAURAV B NAIR	*
12.	ACE17EC012	KATURI SEKIL	10



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Value Added Course Summary Report with Course Outcome 2021-2022

Course Name : Data Science(ECE21002)

Course Duration : 35 Hours

Year offered :4th Year ECE Students- 2021-2022

Course Instructors : Ms. Hima Vijayan V P

Assistant Professor/ ECE

Course outcome

Students would demonstrate proficiency with statistical analysis of data and develop the ability to build and assess data-based models. Students would execute statistical analysis with professional statistical software.

Course type : Self framed value added course

Assessment Mode

Attendance : 35 Hrs Number of Participants : 32

Scheme of exam : Physical Answer sheet mode

Date of exam : 21/3/2022

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Course Coordinator

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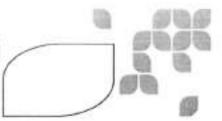
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Course Coordinator Report 2021-2022

Course Name

: Data Science (ECE21002)

Course Duration

: 35 Hours

Year offered

:4th Year ECE Students- 2021-2022

Course Coordinator

: Mr. Afsal. S Assistant Professor/ ECE

Course type

: Self framed value added course

The Certificate program of 'Data Science' was conducted for the 4th year Electronics and Communication Engineering Students. The total period of 35Hrs has been planned and executed as per the course plan.

Assessment Mode

Number of students Enrolled : 32 Number of students Appeared : 32

Scheme of exam

: Physical Answer sheet mode

Date of exam

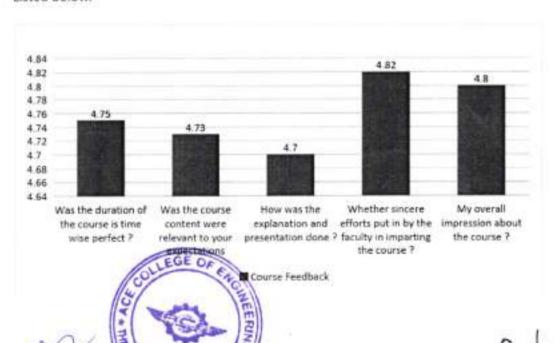
: 21/3/2022

: 32

Number of students Passed

Course Feedback :

The feedback was obtained from the participants after end the course and detailed analysis report are Listed below.



Course Coordinator MAPURAN 432

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This is awarded to

ABHIJITH.B.R

for participating in the value added certificate program on Data Science during 14/3/2022 to 18/3/2022 conducted by Department of Electronics and Communication Engineering at ACE college of engineering,TVM

Mr.Afsal S CO-ORDINATOR











This is awarded to

ABHIRAM.A

for participating in the value added certificate program on Data Science during 14/3/2022 to 18/3/2022 conducted by Department of Electronics and Communication Engineering at ACE college of engineering,TVM

Mr.Afsal S









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Dr.Jayarenjini N



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From

BY PURPOSE

The Head of the Department, Department of Mechanical Engineering, ACE College of Engineering, Trivandrum

To

The Principal

ACE College of Engineering,

Trivandrum

Respected Sir

Sub: Requisition to permit for conducting the Add-on Certification Course.

The department of Mechanical Engineering has decided to provide a 5 Days (35 Hrs.) training program on 'Business Intelligence' (ME21002) for Second Year ME Students at ACE College of Engineering. The certificate will be given by the department. The Course date and schedule are listed below for your kind approval.

	Date	Batch	
From	To	500000	
11/10/2021	15/10/2021	S3 ME	

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Thanking You

ACE TVM, 4/10/2021

Yours Truly

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Department of Mechanical Engineering

Circular

Date: 3/10/2021

The Department of Mechanical Engineering will be conducting a 5 Days (35 Hrs.) training program on 'Business Intelligence' (ME21002) for Second Year ME Students at Mechanical Workshop, ACE College of Engineering from 11/10/2021 to 15/10/2021. Subject experts will be talking to you in the session. Students are requested to register & attend the program. Fullest cooperation is expected for the successful conduct of the training. Attendance is compulsory.

Coordinator

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DEPARTMENT OF MECHANICAL ENGINEERING Course Contents for Business Intelligence(ME21002)

Academic Year: 2021-22 Date:06/10/20221

SYLLABUS

1. Introduction to Business Intelligence (4 hours)

- Data Analysis
- Business Information Management(3 hours)

2. Basic processes of BI (4 hours)

- Reporting
- Online Analytical Processing
- Analytics
- Dashboard development
- Data Mining (3 hours)
- Process Mining

3. Strategic Business(4 hours)

- Data Gathering(4 hours)
- Data Storage
- Knowledge Management (3 hours)

4. Basic Elements (3 hours)

- Multidimensional aggregation and allocation
- Denormalization, tagging, and standardization
- Realtime reporting with analytical alert
- · A method of interfacing with unstructured data sources

5. Big Data & Predictive Analysis(4 hours+3 hours)

- Managing enormous data sets to make extraction and data analysis easier.
- Use of data, algorithms, and models to predict outcomes based on historical data.

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Department of Mechanical Engineering

Resource Person Profile

Resource Person Name

: Mr. Nandu Bhadran

Designation

: Assistant Professor, Department of ME

Specialization

: M.tech in Machine Design

Areas of Interest

: Machine Design, Production Engineering,

Computer Aided Design

: 4 years

Teaching Experience Email ID

: nandubhadran@acetvm.com

Mr. Nandu Bhadran is an all-rounder. He is the NSS Co-ordinator of Ace College of Engineering. He is also the in-charge of the IEDC cell. He worked as the Coordinator of Epoch, conducted by Ace College of Engineering.

Coordinator

HOD







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DEPARTMENT OF MECHANICAL ENGINEERING Timetable for Business Intelligence (ME21002)

Academic Year: 2021-22 Date: 04/10/2021

DAY/	1	2	3	4		5	6	7
PERIOD	8 :40 AM - 9: 35 AM	9:35 AM - 10: 30 AM	10:45 AM - 11: 40 AM	11:40 AM - 12: 35 PM		1 :25 PM - 2 : 20 PM	2:20 PM - 3:10 PM	3:20 PM - 4:10 PM
11/10/2021	Business Intelligence Introduction				Business	Information	Management	
12/10/2021	Business Intelligence Basic processes			ocesses	LUNCH 12.35PM	Business Intelligence Data Min		Data Mining
13/10/2021	Business Intelligence Strategic Business			Business	1.25PM	Business I	ntelligence B	asic Elements
14/10/2021	Business Intelligence Data Gathering			BI Kn	owledge Man	agement		
15/10/2021	5/10/2021 Business Intelligence Big Data			Business In Predictive	CONTRACTOR OF THE PARTY OF THE	FEEDBACK		

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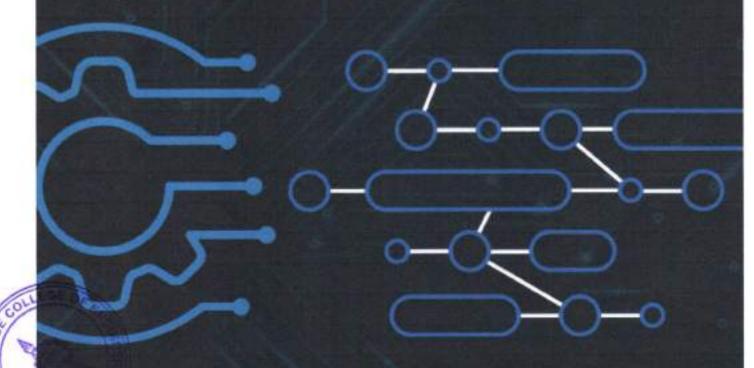
Dartment of Mechanical Engg presents



BUSINESS INTELLIGENCE

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11/10/2021-15/10/2021



J. P. L. L. A. B. L. S.

Mr. Afsal KF Coordinator



Prof. Sivakumar HOD Dr. Farrukh Sayeed Patron



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DEPARTMENT OF MECHANICAL ENGINEERING Enrolled Students List for Business Intelligence (ME21002)

Academic Year: 2021-22 Date: 5/10/2021

SI. No.	Register Number	Candidate Name	Signature
1.	ACE20ME001	ABDUL AZEEZ AZEEF	dide
2.	ACE20ME002	ABDUL KHAYUM S	Lega
3.	ACE20ME003	ABHIRAM D S	Ala.
4.	ACE20ME004	ADISH CHANDRAN R B	Achil
5.	ACE20ME005	ADISH S	Adu
6.	ACE20ME006	AFSAL KHAN A	Hat
7.	ACE20ME007	AJAY SEKHAR J S	Carry .
8.	ACE20ME008	AKASH NARAYANAN P	Kenne
9.	ACE20ME009	ALAN LALI	1st lan
10.	ACE20ME010	ANANDHU A	Anneller
11.	ACE20ME011	ARJUN PRAKASH	AZA
12,	ACE20ME012	ASIF MOHAMMED	-100
13.	ACE20ME013	GAUTHAM R J	Couther
14.	ACE20ME014	GAUTHAM S M	86
15.	ACE20ME015	GOKUL J ANAND	A stul
16.	ACE20ME016	GOKUL RAJ R	Join





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18.	ACE20ME018	JOSHUA JAYAN	CD)
19.	ACE20ME019	MUHAMMAD USMAN S	Ugnun
20.	ACE20ME020	PRAMESH P S	₽.
21.	ACE20ME021	SAHEER A S	Ccheel
22.	ACE20ME022	SAURAV SAJEEV	ge-
23.	ACE20ME023	SEYYADALI A	sei
24.	ACE20ME024	SREEDEV AS	Dans
25.	ACE20ME025	SREEREJ R SUGATHAN	Lever
26.	ACE20ME026	S S MOHAMMED SUFAIL	Serjan
27.	ACE20ME027	VAISHNAV M S	Vaish
28	ACE20ME028	VINOD VIJAY V	VYV
29.	ACE20ME029	VISWAJITH S	Venie
30.	LACE20ME030	GURUDATH E V	four

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DEPARTMENT OF MECHANICAL ENGINEERING

Students Attendance for Business Intelligence (ME21002)

Academic Year: 2021-22 Date:11/10/2021-15/10/21

SI.			Kindly	Mark Your A	tendance	
No.	Candidate Name	11/10/21	12/10/21	13/10/21	14/10/21	15/10/21
1.	ABDUL AZEEZ AZEEF	Р	Р	P	P	P
2.	ABDUL KHAYUM S	P	P	P	P	P
3.	ABHIRAM D S	A	P	P	P	P
4.	ADISH CHANDRAN R B	1	Р	P	P	P
5.	ADISH S	P	P	P	P	P
6.	AFSAL KHAN A	P	p	P	P	P
7.	AJAY SEKHAR J S	P	P	P	P	P
8.	AKASH NARAYANAN P	,	4	P	P	P
9.	ALAN LALI	P	P	P	P	P
10.	ANANDHU A	p	P	P	P	P
11.	ARJUN PRAKASH	P	P	p	P	P
12.	ASIF MOHAMMED	P	P	P	٨	P
13.	GAUTHAM R J	P	P	P	P	p
14.	GAUTHAM S M	P	p	P	P	P
15.	GOKUL J ANAND	P	P	P	P	P
16.	GOKUL RAJ R	TOINE	Α	b	Р	P

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17.	JIJO S	A	P	P	P	P
18.	JOSHUA JAYAN	P	P	Р	P	P
19.	MUHAMMAD USMAN S	P	P	P	P	P
20.	PRAMESH P S	P	P	Р	P	P
21.	SAHEER A S	P	P	A	P	P
22.	SAURAV SAJEEV	P	P	P	P	P
23.	SEYYADALI A	P	P	7	P	P
24.	SREEDEV AS	P	P	P	P	P
25.	SREEREJ R SUGATHAN	Р	P	P	P	P
26.	S S MOHAMMED SUFAIL	P	P	1	P	P
27.	VAISHNAV M S	-4	P	P	P	P
28	VINOD VIJAY V	P	P	P	P	P
29.	VISWAJITH S	P	P	P	P	P
30.	GURUDATH E V	P	P	P	A-	P

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DEPARTMENT OF MECHANICAL ENGINEERING

Course Completion Students List for Business Intelligence (ME21002)

Academic Year: 2021-22 Date: 15/10/2021

SI. No.	Register Number	Candidate Name	Course Completed
1.	ACE20ME001	ABDUL AZEEZ AZEEF	1
2.	ACE20ME002	ABDUL KHAYUM S	/
3.	ACE20ME003	ABHIRAM D S	/
4.	ACE20ME004	ADISH CHANDRAN R B	1
5.	ACE20ME005	ADISH S	/
6.	ACE20ME006	AFSAL KHAN A	,
7.	ACE20ME007	AJAY SEKHAR J S	1
8.	ACE20ME008	AKASH NARAYANAN P	1
9.	ACE20ME009	ALAN LALI	/
10,	ACE20ME010	ANANDHU A	1
11.	ACE20ME011	ARJUN PRAKASH	1
12.	ACE20ME012	ASIF MOHAMMED	1
13.	ACE20ME013	GAUTHAM R J	1
14.	ACE20ME014	GAUTHAM S M	1
15.	ACE20ME015	GOKUL J ANAND	1

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16.	ACE20ME016	GOKUL RAJ R	/
17.	ACE20ME017	JIJO S	/
18.	ACE20ME018	JOSHUA JAYAN	1
19.	ACE20ME019	MUHAMMAD USMAN S	7
20.	ACE20ME020	PRAMESH P S	,
21.	ACE20ME021	SAHEER A S	,
22.	ACE20ME022	SAURAV SAJEEV	,
23.	ACE20ME023	SEYYADALI A	,
24.	ACE20ME024	SREEDEV AS	,
25.	ACE20ME025	SREEREJ R SUGATHAN	,
26.	ACE20ME026	S S MOHAMMED SUFAIL	/
27.	ACE20ME027	VAISHNAV M S	,
28	ACE20ME028	VINOD VIJAY V	,
29.	ACE20ME029	VISWAJITH S	,
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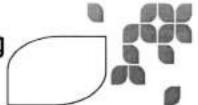
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DEPARTMENT OF MECHANICAL ENGINEERING Assessment Questions for Business Intelligence (ME21002)

Academic Year: 2021-22

All questions are practical in nature.

- Describe Business Intelligence?
- Describe Data Mining?
- Show the steps in Business Intelligence.
- 4. What are the softwares used in Business Intelligence?
- Show the practical application of Business Intelligence in management.
- 6. Explain OLAP.
- Explain CRM using software.
- Explain ERP implementation using software.
- With the help of the software describe the basic elements of Business Intelligence.
- Explain exploratory data analysis with an example.

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DEPARTMENT OF MECHANICAL ENGINEERING

Students List for Business Intelligence (ME21002)

Academic Year: 2021-22 Date: 18/10/2021

SI. No.	Register Number	Candidate Name	Marks out of 25
1.	ACE20ME001	ABDUL AZEEZ AZEEF	25
2.	ACE20ME002	ABDUL KHAYUM S	25
3.	ACE20ME003	ABHIRAM D S	25
4.	ACE20ME004	ADISH CHANDRAN R B	25
5.	ACE20ME005	ADISH S	25
6.	ACE20ME006	AFSAL KHAN A	25
7.	ACE20ME007	AJAY SEKHAR J S	25
8.	ACE20ME008	AKASH NARAYANAN P	25
9.	ACE20ME009	ALAN LALI	25
10.	ACE20ME010	ANANDHU A	25
11.	ACE20ME011	ARJUN PRAKASH	25
12.	ACE20ME012	ASIF MOHAMMED	25
13.	ACE20ME013	GAUTHAM R J	25
14.	ACE20ME014	GAUTHAM S M	25
15,	ACE20ME015	GOKUL J ANAND	25
16.	ACE20ME016	GOKUL RAJ R	25
17.	ACE20ME017	JIJO S	25





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18.	ACE20ME018	JOSHUA JAYAN	25
19.	ACE20ME019	MUHAMMAD USMAN S	25
20.	ACE20ME020	PRAMESH P S	25
21.	ACE20ME021	SAHEER A S	25
22,	ACE20ME022	SAURAV SAJEEV	25
23.	ACE20ME023	SEYYADALI A	24
24.	ACE20ME024	SREEDEV AS	24
25.	ACE20ME025	SREEREJ R SUGATHAN	24
26.	ACE20ME026	S S MOHAMMED SUFAIL	24
27.	ACE20ME027	VAISHNAV M S	24
28	ACE20ME028	VINOD VIJAY V	24
29.	ACE20ME029	VISWAJITH S	24
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DEPARTMENT OF MECHANICAL ENGINEERING

Summary Report with Course Outcome 2021-2022

Course Name

: Business Intelligence (ME21002)

Course Duration

: 35 Hours

Vear offered

: 2nd Year ME Students- 2021-2022

Course Instructors

: Mr. Nandu Bhadran

Assistant Professor/ ME.

Course outcome

Students could understand the basics of Business Intelligence. The steps required for Business Intelligence were discussed. The basic cycle of BI was investigated. The softwares used for BI was familiarized. The basic elements of BI were discussed.

Course type

: Self framed value added course

Assessment Mode

Attendance

: 35 Hrs

Number of Participants

: 30

Scheme of exam

: Physical Answer sheet mode

Date of exam

: 18/10/2021



Course Coordinator

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DEPARTMENT OF MECHANICAL ENGINEERING Course Coordinator Report 2021-2022

Course Name

Business Intelligence(ME21002)

Course Duration

35 Hours

Year offered

2rd Year ME Students- 2021-2022

Course Coordinator

Mr. Afsal KF

Assistant Professor/ ME

Course type

Self framed value added course

The Certificate program of 'Business Intelligence' was conducted for the 2nd year Mechanical Engineering Students. The total period of 35Hrs has been planned and executed as per the course plan.

Assessment Mode

Number of students Enrolled

: 30

Number of students Appeared

: 30

Scheme of exam

: Physical Answer sheet mode

Date of exam

: 18/10/2021

Number of students Passed

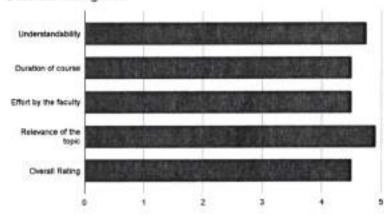
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Course Feedback

The feedback was obtained from the participants after the course and a detailed analysis report is listed below.

Business Intelligence

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Course Coordinator

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THIS CERTIFICATE IS PRESENTED TO

ABHIRAM D S

FOR PARTICIPATING IN THE COURSE 'BUSINESS INTELLIGENCE', CONDUCTED BY DEPARTMENT OF MECHANICAL ENGINEERING, ACE COLLEGE OF ENGINEERING, FROM 11/10/2021 TO 15/10/2021.

MR. AFSAL KF

COORDINATOR

Ziz

PROF. SIVAKUMAR

THIS CERTIFICATE IS PRESENTED TO

ABDUL AZEEZ AZEEF

FOR PARTICIPATING IN THE COURSE 'BUSINESS INTELLIGENCE', CONDUCTED BY DEPARTMENT OF MECHANICAL ENGINEERING, ACE COLLEGE OF ENGINEERING, FROM 11/10/2021 TO 15/10/2021.

MR. AFSAL KF

COORDINATOR

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PROF. SIVAKUMAR

THIS CERTIFICATE IS PRESENTED TO

ABDUL KHAYUM S

FOR PARTICIPATING IN THE COURSE 'BUSINESS INTELLIGENCE', CONDUCTED BY DEPARTMENT OF MECHANICAL ENGINEERING, ACE COLLEGE OF ENGINEERING, FROM 11/10/2021 TO 15/10/2021.

MR. AFSAL KF

COORDINATOR

PRO

PROF. SIVAKUMAR

THIS CERTIFICATE IS PRESENTED TO

ADISH S

FOR PARTICIPATING IN THE COURSE 'BUSINESS INTELLIGENCE', CONDUCTED BY DEPARTMENT OF MECHANICAL ENGINEERING, ACE COLLEGE OF ENGINEERING, FROM 11/10/2021 TO 15/10/2021.

MR. AFSAL KF

COORDINATOR



PROF. SIVAKUMAR

THIS CERTIFICATE IS PRESENTED TO

ADISH CHANDRAN R B

FOR PARTICIPATING IN THE COURSE 'BUSINESS INTELLIGENCE', CONDUCTED BY DEPARTMENT OF MECHANICAL ENGINEERING, ACE COLLEGE OF ENGINEERING, FROM 11/10/2021 TO 15/10/2021.

MR. AFSAL KF

COORDINATOR

PROF. SIVAKUMAR



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ACE College of Engineering

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From

The Head of the Department,

Department of Mechanical Engineering,

ACE College of Engineering, Trivandrum

To

The Principal

ACE College of Engineering,

Trivandrum

Respected Sir

Sub: Requisition to permit for conducting the Add-on Certification Course.

The department of Mechanical Engineering has decided to conduct a 5 Days (35 Hrs.) training program on 'Vehicle Overhauling' (ME21001) for Fourth Year ME Students at ACE College of Engineering. The certificate will be given by the department to those students who successfully complete the course. The Course date and schedule are listed below for your kind approval.

	Date	Batch	
From	То		
14/3/2022	18/3/2022	S8 ME	

Thanking You

ACE TVM. 7/3/2022

Yours Truly

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Date: 08/03/2022

Department of Mechanical Engineering

Circular

The Department of Mechanical Engineering will be conducting a 5 Days (35 Hrs.) training program on 'Vehicle Overhauling' (ME21001) for Fourth Year ME Students at Mechanical Workshop, ACE College of Engineering from 14/03/2022 to 18/03/2022. Students are requested to register & attend the program without any excuse. Experts will be talking to you in the sessions. Fullest cooperation is expected from the students for the successful conduct of the training. Attendance is compulsory.

Coordinator

HOD

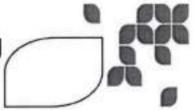
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DEPARTMENT OF MECHANICAL ENGINEERING Course Contents for Vehicle Overhauling (ME21001)

Academic Year: 2021-22 Date :10/3/2022

SYLLABUS

1. Vehicle Overhauling

- Basic concepts on vehicles (4 hours)
- · Parts of automobiles (3 hours)
- Functions of each part

2. Evolution of Tyre and Brake System (4 hours + 3 hours)

- Types of Tyres.
- Selection
- Installation

3. Automotive Engine Types (4 hours + 3 hours)

- Selection
- Classification and uses

4. Automated Cooling System (4 hours + 3 hours)

· Types, Selection, installation.

5. Application on a Real Project. (4 hours + 2 hours)

- · Dismantling of different parts of an automobile
- · Study and observe each and every part.
- Dismantling of automotive engines.
- Study and observe the different parts.
- · Study the different systems associated with an automobile.

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Department of Mechanical Engineering

Resource Person Profile

Resource Person Name

: Mr. Arunraj R

Designation

: Assistant Professor, Department of ME

Thinsenmanapuran 595 021

Specialization

: M.tech in Machine Design

Areas of Interest

: Machine Design, Automobile Engineering, Fluid Structural

Interaction, Computer Aided Design and Analysis.

Teaching Experience

: 7 years

Email

: arunraj.r@acetvm.com

Sl.No	List of Journals and Publications					
1.	"A Study on the nature of Fluid Transients on varying conduit parameters during valve closure", International Journal of Scientific & Engineering Research, Volume 5, Issue 7, July-2014 ISSN 2229-5518					
2.	"Parametric study on Fluid Transients in Conduits",2nd International Conference on Materials Mechanics and Management (IMMM2014), College of Engineering Trivandrum.					







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DEPARTMENT OF MECHANICAL ENGINEERING Timetable for Vehicle Overhauling (ME21001)

Academic Year: 2021-22

Date: 07/03/2022

DAVI	1	2	3	4		5	6	7
DAY/ PERIOD	8:40 AM - 9: 35 AM	9:35 AM - 10: 30 AM	10:45 AM - 11: 40 AM	11:40 AM - 12: 35 PM		1 :25 PM - 2 : 20 PM	2:20 PM -3:10 PM	3:20 PM -4:10 PM
14/03/2022	Vehic	cle Overhauli	ng Basic Co	ncepts		Part	s of Automo	biles
15/03/2022	Veh	icle Overhau	ling Tyre Sy	/stem	LUNCH 12.35PM	Vehicle Overhauling Brake Sys		
16/03/2022	Vehi	Vehicle Overhauling Engine Study				Vehicle Overhauling Engine T		
17/03/2022	А	Automated Cooling System 1				Automa	ted Cooling	System 2
18/03/2022	Veh	nicle Overhau	ıling real pr	oject	1	-Vehicle Ov Disma	erhauling intling	FEEDBACK

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Duration: 14/03/2022 - 18/03/2022

Resource Person Mr. Arunraj R Convener (HOD)

Prof. Sivakumar

Coordinator (Assistant Professor)

Dr. Farrukh Sayeed Principal



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DEPARTMENT OF MECHANICAL ENGINEERING Enrolled Students List for Vehicle Overhauling (ME21001)

Academic Year: 2021-22 Date: 8/10/2021

SI. No.	Register Number	Candidate Name	Signature
1.	ACE18ME008	AMAL KRISHNA M	Anal
2.	ACE18ME007	AL AMEEN HAFIS AMEER	thefar
3.	ACE18ME006	AKSHAY M NAIR	Attehayten
4.	ACE18ME005	AKHIL P R	ARTINIT
5.	ACE18ME004	AKHILDEV D	Bu.
6.	ACE18ME003	ADARSH ANIL KUMAR	ALG
7.	ACE18ME002	ABIJITH R P	Athi
В.	ACE18ME001	АВНІЈІТН М S	MMB
9.	LACE18ME031	NIKHIL R B	Nikhir
10.	LACE18ME030	MUHAMAD FAYAS A S	Fayas
11.	ACE18ME018	MITHUN R	Weath
12.	ACE18ME016	JAIWIN J PRAKASH	OFM
13.	ACE18ME017	KARTHIK A T	the
14.	ACE18ME015	HARI SANKAR M R	ROK
15.	ACE18ME014	HARIKRISHNAN K	Kanh
16.	ACE18ME013	HAMEEM MUHAMMAD N	Haren





17.	ACE18ME012	DEVANG GOPALAKRISHNAN	la
18.	ACE18ME011	ASIF NABIL S	ARP
19.	ACE18ME010	ARAVIND J	Aox
20.	ACE18ME009	ANET ANILKUMAR	Aut
21.	ACE18ME019	MOHAMED SIYAD	Sur
22.	ACE18ME020	MOHAMMAD SUFIYAN S	Du.
23.	ACE18ME021	MUBEEN MOHAMMED	Kl un.
24.	ACE18ME022	MUHAMMED NAFIUH S	Carpi
25.	ACE18ME023	P D RESHMA	ORMO-
26.	ACE18ME024	PRANAV B S	Revar
27.	ACE18ME025	RAMESH KRISHNAN R	@ W
28	ACE18ME026	RENJITH G R	The sta
29.	ACE18ME027	R KRISHNAN	Enh
30.	ACE18ME028	SOURAV SUNIL	- Lu
31.	ACE18ME029	VIGNESH S	Variet

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DEPARTMENT OF MECHANICAL ENGINEERING Students Attendance for Vehicle Overhauling (ME21001)

Academic Year: 2021-22 Date: 14/3/2022-18/3/22

SI. No.	Candidate Name	Kindly Mark the Attendance						
		14/3/22	15/3/22	16/3/22	17/3/22	18/3/22		
1.	AMAL KRISHNA M	P	P	P	P	p		
2.	AL AMEEN HAFIS AMEER	P	P	P	P	P		
3.	AKSHAY M NAIR	А	P	P	P	P		
4.	AKHIL P R	P	P	P	P	P		
5.	AKHILDEV D	P	P	P	P	P		
6.	ADARSH ANIL KUMAR	P	P	P	P	P		
7.	ABIJITH RP	P	P	P	А	P		
8.	АВНІЛІТН M S	P	P	P	P	P		
9.	NIKHIL R B	p	P	P	6	P		
10.	MUHAMAD FAYAS A S	P	P	P	P	P		
11.	MITHUN R	P	P	P	P	P		
12.	JAIWIN J PRAKASH	A	P	P	P	P		
13.	KARTHIK A T	P	P	P	P	P		
14.	HARI SANKAR M R	P	P	P	A	P		





15.	HARIKRISHNAN K	P	P	P	P	P
16.	HAMEEM MUHAMMAD N	P	P	A	P	P
17.	DEVANG GOPALAKRISHNAN	P	P	P	P	P
18.	ASIF NABIL S	P	P	P	P	P
19.	ARAVIND J	P	P	P	P	P
20.	ANET ANILKUMAR	A	P	9	P	P
21.	MOHAMED SIYAD	P	P	P	P	P
22.	MOHAMMAD SUFIYAN S	P	P	P	P	P
23.	MUBEEN MOHAMMED	P	P	3	P	P
24.	MUHAMMED NAFIUH S	P	P	P	P	P
25.	P D RESHMA	P	Р	P	P	P
26.	PRANAV B S	P	P	A	P	P
27.	RAMESH KRISHNAN R	P	٩	P	P	P
28	RENJITH G R	P	P	P	P	P
29.	R KRISHNAN	P	P	P	P	P
30.	SOURAV SUNIL	P	P	P	P	P
31.	VIGNESH S	A	P	P	P	P









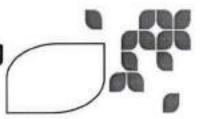
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DEPARTMENT OF MECHANICAL ENGINEERING

Course Completion List for Vehicle Overhauling (ME21001)

Academic Year: 2021-22 Date: 18/10/2021

SI. No.	Register Number	Candidate Name	Course Completed			
1.	ACE18ME008	AMAL KRISHNA M	1			
2.	ACE18ME007	AL AMEEN HAFIS AMEER	/			
3.	ACE18ME006	AKSHAY M NAIR	,			
4.	ACE18ME005	AKHIL P R	/			
5.	ACE18ME004 AKHILDEV D		/			
6.	ACE18ME003 ADARSH ANIL KUMAR		1			
7.	. ACE18ME002 ABIJITH R P		,			
8.	ACE18ME001	АВНІЈІТН M S	,			
9.	LACE18ME031	NIKHIL R B	1			
10.	LACE18ME030	MUHAMAD FAYAS A S	/			
11.	ACE18ME018	MITHUN R	,			
12.	ACE18ME016	JAIWIN J PRAKASH	/			
13.	ACE18ME017	KARTHIK A T	/			
14.	ACE18ME015	HARI SANKAR M R	/			
15.	ACE18ME014	HARIKRISHNAN K	,			
16.	ACE18ME013	HAMEEM MUHAMMAD N	,			
17.	ACE18ME012	DEVANG GOPALAKRISHNAN	,			

PULANANTHAP



18.	ACE18ME011	ASIF NABIL S	/
19.	ACE18ME010	ARAVIND J	/
20.	ACE18ME009	ANET ANILKUMAR	1
21.	ACE18ME019	MOHAMED SIYAD	1
22.	ACE18ME020	MOHAMMAD SUFIYAN S	1
23.	ACE18ME021	MUBEEN MOHAMMED	,
24.	ACE18ME022	MUHAMMED NAFIUH S	1
25.	ACE18ME023	P D RESHMA	/
26.	ACE18ME024	PRANAV B S	/
27.	ACE18ME025	RAMESH KRISHNAN R	/
28	ACE18ME026	RENJITH G R	/
29.	ACE18ME027	R KRISHNAN	/
30.	ACE18ME028	SOURAV SUNIL	/
31.	ACE18ME029	VIGNESH S	,



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Assessment Questions for Vehicle Overhauling(ME21001)

Academic Year: 2021-22

All questions are compulsory and practical in nature.

- Explain the advanced technologies in automobiles.
- 2. Explain the features you noted in a Maruti 800 car.
- 3. What is vehicle integration engineering?
- 4. What are the emergency measures in a car?
- 5. Which all components did you see in engine dismantling?
- 6. Explain the functions of components that you saw in dismantling.
- 7. Explain the process of dismantling in detail.
- 8. Explain the lubrication system in detail.
- 9. Explain the brake system in detail, Explain the engine structure in detail.

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DEPARTMENT OF MECHANICAL ENGINEERING

Students Assessment Marks for Vehicle Overhauling (ME21001)

Academic Year: 2021-22 Date: 18/3/22

SI. No.	Candidate Name	Marks out of 25		
1.	AMAL KRISHNA M	25		
2.	AL AMEEN HAFIS AMEER	25		
3.	AKSHAY M NAIR	25		
4.	AKHIL P R	25		
5,	AKHILDEV D	25		
6,	ADARSH ANIL KUMAR	25		
7.	ABIJITH RP	25		
8.	АВНІЈІТН М S	25		
9.	NIKHIL R B	25		
10,	MUHAMAD FAYAS A S	25		
11.	MITHUN R	25		
12.	JAIWIN J PRAKASH	25		
13.	KARTHIK A T	25		
14.	HARI SANKAR M R	25		
15.	HARIKRISHNAN K	25		





16.	HAMEEM MUHAMMAD N	25
17.	DEVANG GOPALAKRISHNAN	25
18.	ASIF NABIL S	25
19.	ARAVIND J	25
20.	ANET ANILKUMAR	25
21.	MOHAMED SIYAD	25
22.	MOHAMMAD SUFIYAN S	25
23.	MUBEEN MOHAMMED	25
24.	MUHAMMED NAFIUH S	25
25.	P D RESHMA	25
26.	PRANAV B S	24
27.	RAMESH KRISHNAN R	24
28	RENJITH G R	24
29.	R KRISHNAN	24
30.	SOURAV SUNIL	25
31.	VIGNESH S	25

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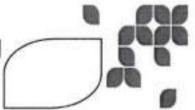


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DEPARTMENT OF MECHANICAL ENGINEERING

Summary Report with Course Outcome 2021-2022

Course Name

: Vehicle Overhauling (ME21001)

Course Duration

: 35 Hours

Year offered

: 4th Year ME Students- 2021-2022

Course Instructors

: Mr. Arunraj R

Assistant Professor/ ME

Course outcome

Students could understand the basic parts of a vehicle and study their assembly. Hands-on training was given to them on engine dismantling and each and every part of the engine was studied in detail. Different systems associated with the vehicle were also studied.

Course type

: Self framed value added course

Assessment Mode

Attendance

: 35 Hrs

Number of Participants

- 31

Scheme of exam

: Physical Answer sheet mode

Date of exam

: 21/03/2022



Course Coordinator

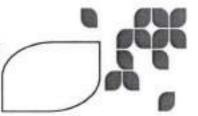
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DEPARTMENT OF MECHANICAL ENGINEERING Course Coordinator Report 2021-2022

Course Name

Vehicle Overhauling (ME21001)

Course Duration

35 Hours

Year offered

4th Year ME Students- 2021-2022

Course Coordinator

Mr. Afsal KF

Assistant Professor/ ME

Course type

Self framed value added course

The Certificate program of 'Vehicle Overhauling' was conducted for the 2nd year Mechanical Engineering Students. The total period of 35Hrs has been planned and executed as per the course plan.

Assessment Mode

Number of students Enrolled : 31 Number of students Appeared : 31

Scheme of exam : Physical Answer sheet mode

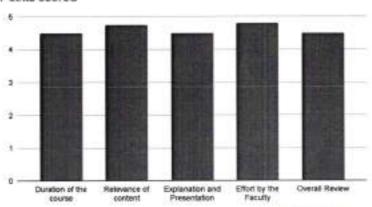
Date of exam : 21/03/2022

Number of students Passed : 31

Course Feedback

The feedback was obtained from the participants after the course and a detailed analysis report is listed below.

Points scored



Course Coordinator

SOLUTION OF ENGINE

2 Life





OF PARTICIPATION

This certificate is presented to:

MUHAMMED NAFIUH S

for participating in the course 'Vehicle Overhauling' conducted by Department of Mechanical Engineering, ACE College of Engineering, from 14/3/2022 to 18/03/22.

MR. AFSAL KF

COORDINATOR

PROF, SIVAKUMAR









OF PARTICIPATION

This certificate is presented to:

R KRISHNAN

for participating in the course 'Vehicle Overhauling' conducted by Department of Mechanical Engineering, ACE College of Engineering, from 14/3/2022 to 18/03/22.

MR. AFSAL KF

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PROF. SIVAKUMAR HOD









OF PARTICIPATION

This certificate is presented to:

RAMESH KRISHNAN R

for participating in the course 'Vehicle Overhauling' conducted by Department of Mechanical Engineering, ACE College of Engineering, from 14/3/2022 to 18/03/22.

COORDINATOR









OF PARTICIPATION

This certificate is presented to:

RENJITH G R

for participating in the course 'Vehicle Overhauling' conducted by Department of Mechanical Engineering, ACE College of Engineering, from 14/3/2022 to 18/03/22.

MR. AFSAL KE

COORDINATOR

PROF. SIVAKUMAR











OF PARTICIPATION

This certificate is presented to:

SOURAV SUNIL

for participating in the course 'Vehicle Overhauling' conducted by Department of Mechanical Engineering, ACE College of Engineering, from 14/3/2022 to 18/03/22.

MR. AFSAL KF COORDINATOR ACE Coince of Engineering
Thiravaminahapuram-695 927

PROF. SIVAKUMAR HOD





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From

Anuroopa A
Associate Professor & HOD
Department of Electrical and Electronics
ACE College of Engineering,
Thiruvananthapuram

Date:17/11/2021

To

The Principal ACE College of Engineering, Thiruvananthapuram

Respected Sir,

Sub: Permission for Conducting Certificate Program - reg.

I am writing to request your permission to conduct an Add-on course on Introduction to Arduino (EEE21001) for the students of III Year EEE. The course will be held from 06.12.2021 to 10.12.2021. Mrs.Jimshitha E S -Assistant Professor/EEE at ACE College of Engineering will be the coordinator of this program. I believe that the students will benefit from this program. The certificate will be provided by the department to each participant upon completion of the course. Kindly give our request a favorable consideration.

Your Faithfully

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CIRCULAR

Date: 19/11/2021

It is hereby informed to all the third year students of the Electrical and Electronics Department that we are conducting a 5 Days training program on Introduction to Arduino from 06/12/2021 to 10/12/2021 at EEE department. All students are cordially invited to register & attend the training program.

Coordinator

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING EEE21001: COURSE ON INTRODUCTION TO ARDUINO

Academic Year 2021-2022

COURSE CONTENTS

Course Introduction (2 hr)

Hardware Overview (2hr)

Download and Install the Arduino IDE (1hr)

Arduino IDE and Sketch Overview (2 hr)

Arduino – Data Types, variables, loop etc (2hrs)

Arduino – Strings, Array (2hrs)

Arduino - function libraries (3 Hrs)

Arduino - Pulse Width Modulation(2hr)

Arduino – Interrupts (2 hr)

Arduino - Communication (2 hr)

Arduino - Inter Integrated Circuit (1 hr)

Arduino – projects (7hrs)

Arduino - sensors (3hr)

Arduino - motor control(3hr)

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Course Coordinator

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RESOURCE PERSON PROFILE

Vishakh K H

Assistant Professor

Dept of Electrical and Electronics Engineering

ACE College of Engineering, Thiruvallom

Qualification:

- Bachelor of Technology in Electrical and Electronics Engineering from Amrita school of Engineering
- Master of Technology in Industrial Instrumentation and Control from TKM College of Engineering
- · pursuing Phd from Amrita school of Engineering

Publications:

- · Fault Detection Isolation Restoration of an Active Distribution Network
- Control of longitudinal dynamics in the Reentry Phase of a Reusable Launch Vehicle
- Comparison of Estimation capabilities of Extended and Unscented Kalman Filter in an RLV

Achievements:

- Qualified GATE 2011 and 2012
- Attended JAVA Course from Oracle Academy
- Visvesvaraya scholarship holder from ministry of electronics and IT, Government of India.

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DAY/ PERIOD	1	2		3	4	9 -	5	6	7
06/12/2021	Course Introduction		Course Introduction Hardware Overview			Download and Install the Ardeino IDE	Ardains IDE and Sketch Overview		
97/12/2621	Ardsino – Data Types, variables, loop E				UNC	ARDUING	INO - FUNCTION LIBRARIES		
08/12/2021	Ardumo Pulse	Arduino Pulse Width Modulation		Anduino – Interrupts		H B R	Arduino – Com	munication	Arduino Inter Integrated Circuit
69/12/2021	ARDUINO	- PROJECTS	A. K	ARDUINO - PROJECTS		E A K	AR	EDUINO – PROF	6CTS
10/12/2021	SEN	NSORS .		SENSORS MOTOR CONTROL			MOTOR CO	ONTROL.	FEEDBACK





PRINCIPAL ACE College of Engineering
Thiruvallam P.O. Thiruvananthapuram-695 02T



Duration: 06/12/2021 - 10/12/2021

Resource Person

Mr. Vishakh Hariharan

Coordinator (Assistant Professor)

Mrs. Jimshitha ES



Patron Dr. Farrukh Sayeed Principal





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Department of Electrical and Electronics Engineering Enrolled Students List

EEE21001: COURSE ON INTRODUCTION TO ARDUINO

Academic Year 2021-2022

SI No	Register Number	Name of Student	Signature
1	ACE19EE002	AKHIL S	Skil
2	ACE19EE003	ANANDU A	An
3	ACE19EE004	ARYA MURUGAN DM	O De
4	ACE19EE005	ASWIN VENU M	A
5	ACE19EE007	FAYAS SHAJI RAHMAN	Auges
6	ACE19EE008	FAZEELA S	Joseph
7	ACE19EE009	GOURI T SUGATHAN	0-
8	ACE19EE011	J AAYISHA	total.
9	ACE19EE012	MEGHA M	Med
10	ACE19EE013	MOHAMMAD FAYAZ	July
11	ACE19EE014	MOHAMMED ABBAS N	Allers
12	ACE19EE015	MUHAMMED AJMAL R S	AM
13	ACE19EE016	NAVAMI KRISHNA S	Dene
14	ACE19EE017	NIHAL NAJEEB MOHAMMED	Nhe
15	ACE19EE018	NITHIN V	Shilton
16	ACE19EE019	PARVATHY G.M	0
17	ACE19EE020	SARITHA S L	Sent
18	ACE19EE021	SHIJIN CLIVE	St.
19	ACE19EE022	SHILPA MANOHAR	8/1.
20	ACE19EE023	SREEJITH RAJ S	Secreto-
21	ACE19EE024	SULEKHA S	Andrew



ACE College of Engineering
Thiruvananthapuram-695 027



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

EEE21001: COURSE ON INTRODUCTION TO ARDUINO

		AT	TENDANCE SHEET	Γ		
SI No	Name of Student	6/12/2021	7/12/2021	8/12/2021	9/12/2021	10/12/2021
1	AKHIL S	ALA	Akhil	Adu	Achil	Alhu
2	ANANDU A	A	A	1	An	A
3	ARYA MURUGAN DM	alle	A-	Aug .	CASE OF THE PROPERTY OF THE PR	Ala
4	ASWIN VENU M	(X)	da	A3	DB.	As
5	FAYAS SHAJI RAHMAN	pre	les	lusa	Longs	laye
6	FAZEELA S	Lasule	Shale	fast	Pagele	Parale
7	GOURI T SUGATHAN	Que .	0	0	· Qui	0
8	J AAYISHA	Arst -	AX	Ant.	4	AT TO
9	MEGHA M	A	things	My	My	Du K
10	MOHAMMAD FAYAZ	Com	(Contraction of the contraction	9-14	toot	to the
11	MOHAMMED ABBAS N	of the	Alam	Alter-	Almo	de has
12	MUHAMMED AJMAL R S	Agril	A del	11	Admi	Azm
13	NAVAMI KRISHNA S	Die) Joseph) du	70	No.
14	NIHAL NAJEEB	No	461	Wh-	nh-	M
15	NITHIN V	Niller	Miller	Wife	Wille	Me
16	PARVATHY G.M.	0	20.	V	No.	1
17	SARITHA S L	Sent.	Roy.	Part	But	Salst
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19	SHILPA MANOHAR	8	de :	8	3	8
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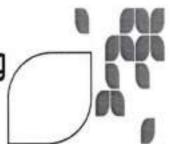


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Department of Electrical and Electronics Engineering Students Course Completion list

EEE21001: COURSE ON INTRODUCTION TO ARDUINO

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SI No	Register Number	Name of Student	Completed
1	ACE19EE002	AKHIL S	V
2	ACE19EE003	ANANDU A	V
3	ACE19EE004	ARYA MURUGAN DM	V
4	ACE19EE005	ASWIN VENU M	V
5	ACE19EE007	FAYAS SHAJI RAHMAN	V
6	ACE19EE008	FAZEELA S	V
7	ACE19EE009	GOURI T SUGATHAN	V
8	ACE19EE011	J AAYISHA	V
9	ACE19EE012	MEGHA M	V
10	ACE19EE013	MOHAMMAD FAYAZ	V
11	ACE19EE014	MOHAMMED ABBAS N	V
12	ACE19EE015	MUHAMMED AJMAL R S	V
13	ACE19EE016	NAVAMI KRISHNA S	V
14	ACE19EE017	NIHAL NAJEEB MOHAMMED	V
15	ACE19EE018	NITHIN V	1
16	ACE19EE019	PARVATHY G.M	V
17	ACE19EE020	SARITHA S L	V.
18	ACE19EE021	SHIJIN CLIVE	V
19	ACE19EE022	SHILPA MANOHAR	V
20	ACE19EE023	SREEJITH RAJ S	V
21	ACE19EE024	SULEKHA S	V





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ASSESSMENT QUESTIONS EEE21001: COURSE ON INTRODUCTION TO ARDUINO Academic Year: 2021-2022

(Each question carry one mark)

1.	Arduino Codes are referred to as a) sketches	in the Arduino IDE.
	b) drawings	
	c) links	
	d) notes	
2.	What language is the Arduino IDE bui	lt on?
	(a) Java	
	(b) HTML	
	(c) C/C++	
	(d) Python	
3.	How many types of Arduino do we ha	ve?
	a) 4	
	b) 8	
	c) 12	
	d) 16	
4.	Which board is the first to use a micro	controller within the build USB?
	a) RedBoard	
	b) Leonardo	
	c) LilyPad	
	d) UNO	
5.	Arduino IDE consists of 2 functions. V	What are they?

a) Loop() and build() and setup()

b) Build() and loop()

c) Setup() and build()

d) Setup() and loop()



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- 6. What is the difference between an IDE and a compiler?
 - a) The compiler executes the code while the IDE gives a graphical environment for writing the code
 - b) The compiler links the code to the respective files and the IDE takes it from there
 - c) The compiler and the IDE are the same thing
 - d) The IDE executes the code while the compiler gives a graphical environment for writing the code
- 7. What is Arduino?
 - (a) Programming language
 - (b) Image editing software
 - (c) Open-source electronics platform
 - (d) Text editor
- 8. What is the correct execution process of an Arduino code?
 - a) Editor->Preprocessor->Compiler
 - b) Preprocessor->Editor->Compiler
 - c) Compiler->Preprocessor->Editor
 - d) Editor->Compiler->Preprocessor
- 9. What does p refer to in ATmega328p?
 - a) Programmable on chip
 - b) Power-Pico
 - c) Production
 - d) Pico-Power
- 10. What is the use of the Arduino.h header file?
 - a) It enables the programmer to access all of Arduino's core functionality
 - b) It doesn't have any use and can be omitted at any point of time in the code
 - c) It gives root access to the microcontroller's file system
 - d) It allows other people to create libraries for the Arduino code



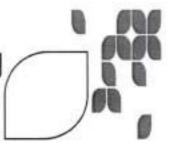
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Department of Electrical and Electronics Engineering

Assessment Marks

EEE21001: COURSE ON INTRODUCTION TO ARDUINO

Academic Year 2021-2022

SI No	Register Number	Name of Student	Marks
1	ACE19EE002	AKHIL S	10
2	ACE19EE003	ANANDU A	10
3	ACE19EE004	ARYA MURUGAN DM	9
4	ACE19EE005	ASWIN VENU M	9
5	ACE19EE007	FAYAS SHAJI RAHMAN	8
6	ACE19EE008	FAZEELA S	10
7	ACE19EE009	GOURI T SUGATHAN	9
8	ACE19EE011	J AAYISHA	10
9	ACE19EE012	MEGHA M	8
10	ACE19EE013	MOHAMMAD FAYAZ	8
11	ACE19EE014	MOHAMMED ABBAS N	10
12	ACE19EE015	MUHAMMED AJMAL R S	9
13	ACE19EE016	NAVAMI KRISHNA S	9
14	ACE19EE017	NIHAL NAJEEB MOHAMMED	8
15	ACE19EE018	NITHIN V	10
16	ACE19EE019	PARVATHY G.M	9
17	ACE19EE020	SARITHA S L	10
18	ACE19EE021	SHIJIN CLIVE	8
19	ACE19EE022	SHILPA MANOHAR	8
20	ACE19EE023	SREEJITH RAJ S	9
21	ACE19EE024	SULEKHA S	10





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Thinyaranihapuram-695 027

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ASSESSMENT QUESTIONS

EEE21001: COURSE ON INTRODUCTION TO ARDUINO Academic Year: 2021-2022

(Each question carry one mark)

			10/
1.	Arduino Codes are referred to as in	n the Arduino IDE.	
	a) sketches		
1	b) drawings		
/	c) links		
~	d) notes		
2.	2. What language is the Arduino IDE built on?		
	(a) Java		
1	(b) HTML		
/	(c) C/C++		
100	(d) Python		
3.	3. How many types of Arduino do we have?		
	a) 4		
/	b) 8		
/	c) 12		
~	d) 16		
4.	4. Which board is the first to use a microcontrol	ler within the build US	B?
	a) RedBoard		
/	b) Leonardo		
~	c) LilyPad		
	d) UNO		
5.	5. Arduino IDE consists of 2 functions. What are	e they?	1
			Syce
	b) Build() and loop()	OF OR	4-
/	c) Setup() and build()	Ex.	RINCIPAL ENGINEERING
/	d) Setup() and loop()	IZ CO	of Ethe O
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- 6. What is the difference between an IDE and a compiler?
 - a) The compiler executes the code while the IDE gives a graphical environment for writing the code
 - b) The compiler links the code to the respective files and the IDE takes it from there
 - c) The compiler and the IDE are the same thing
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- 7. What is Arduino ?"
 - (a) Programming language
 - (b) Image editing software
 - (e) Open-source electronics platform
 - (d) Text editor
- 8. What is the correct execution process of an Arduino code?
 - a) Editor->Preprocessor->Compiler
 - b) Preprocessor->Editor->Compiler
 - c) Compiler->Preprocessor->Editor
 - d) Editor->Compiler->Preprocessor
- 9. What does p refer to in ATmega328p?
 - a) Programmable on chip
 - b) Power-Pico
 - c) Production
 - d) Pico-Power
- 10. What is the use of the Arduino.h header file?
 - a) It enables the programmer to access all of Arduino's core functionality
 - b) It doesn't have any use and can be omitted at any point of time in the code
 - c) It gives root access to the microcontroller's file system
 - d) It allows other people to create libraries for the Arduino code



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ASSESSMENT QUESTIONS

EEE21001: COURSE ON INTRODUCTION TO ARDUINO Academic Year: 2021-2022

	(Each questi	ion carry one mark)	
1	a) sketches b) drawings c) links d) notes	in the Arduin	no IDE.
2	What language is the Arduino IDE bu (a) Java (b) HTML (c) C/C++ (d) Python	ilt on?	
3	a) 4 b) 8 c) 12 d) 16	ive?	
4 X	Which board is the first to use a micro a) RedBoard b) Leonardo c) LilyPad d) UNO	ocontroller within th	ne build USB?
<i>S</i>	Arduino IDE consists of 2 functions. a) Loop() and build() and setup() b) Build() and loop() c) Setup() and build() d) Setup() and loop()	E COLL	ACE CHARLES TO THE PROPERTY OF CO.



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	Academ	nc Year: 2021-2022	- 1
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Arduino Codes a a) sketches b) drawings	re referred to as _	in the Ardu	ino IDE.
c) links d) notes			(8)
2. What language is (a) Java (b) HTML (c) C/C++ (d) Python	the Arduino IDE I	ouilt on?	10
3. How many types a) 4 b) 8 c) 12 d) 16	of Arduino do we	have?	
 4. Which board is the a) RedBoard b) Leonardo c) LilyPad d) UNO 	e first to use a mic	crocontroller within	the build USB?
5. Arduino IDE con a) Loop() and bui b) Build() and loo e) Setup() and bu d) Setup() and loo	ld() and setup() pp() ild()	s. What are they?	PRINCIPAL ACE College of Engineering Thiravallam P.O. Thiravallam P.O. Thiravallam P.O.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ASSESSMENT QUESTIONS

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Arduino Codes a sketches b) drawings c) links d) notes	are referred to as	in the Arduino	IDE.
2. What language is (a) Java (b) HTML (c) C/C++ (d) Python	the Arduino IDE bui	ilt on?	
a) 4 b) 8 c) 12 d) 16	of Arduino do we ha	ve?	
4. Which board is to a) RedBoard b) Leonardo c) LilyPad d) UNO	he first to use a micro	econtroller within the	build USB?
 Arduino IDE cor a) Loop() and bu b) Build() and lo c) Setup() and bu d) Setup() and lo 	op() nild()	What are they?	PRINCIPAL ACE College of Expression Third college of Expression Third college of Expression Third college of Expression Third college of the Expression Third



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EEE21001: COURSE ON INTRODUCTION TO ARDUINO Academic Year: 2021-2022

(Each question carry one mark)

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4.4	. What language is the Arduino IDE built on?
1	(a) Java
	(b) HTML
	(c) C/C++
	(d) Python
3	. How many types of Arduino do we have?
/	a) 4
	b) 8
	c) 12
	d) 16
2	. Which board is the first to use a microcontroller within the build USB?
	/a) RedBoard
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	d) UNO
15	

5. Arduino IDE consists of 2 functions. What are they?

a) Loop() and build() and setup()

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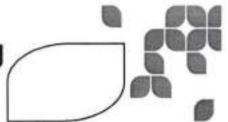
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Summary Report with Course Outcome 2021-2022

Course Name	Introduction to Arduino	
Course Code	EEE21001	
Course Duration	34 Hours	
Year offered	2021-2022	
Course Instructors	Mr. Vishakh Hariharan Assistant Professor, EEE	
Course type	Self framed value added course	

Course outcome

The students would be able to understand how the Arduino platform works in terms of the physical board and libraries and the IDE and to develop skills to design and implement various smart system

applications.

Assessment Mode

Attendance	35 Hrs
Number of Participants	21
Scheme of exam	Physical Answer sheet mode
Date of exam	10/12/2021

Course Coordinator



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Course Coordinator Report 2021 -2022

Course Name	Introduction to Arduino
Course Code	EEE21001
Course Duration	34 Hours
Year Offered	2021-2022
Course Coordinator	Mrs. Jimshitha E S
Course Type	Self framed value added course

The Certificate program of Introduction to Arduino was conducted for the 3rd year Electrical and Electronics Engineering Students. The total period of 34Hrs has been planned and executed as per the course plan.

Assessment Mode

10000					
Number of students Enrolled	21				
Number of students Appeared	21				
Scheme of exam	Physical Answer sheet mode				
Date of exam	10/12/2021				
Number of students Passed	21				

Course Feedback:

The feedback was obtained from the participants after the end of the course and detailed analysis reports are Listed below.



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NITHIN V

of Third year EEE

has undergone the training

programme on Introduction to Arduino during 06.12.2021 to 10.12.2021 organized by the Department of Electrical and Electronics Engineering, ACE College of Engineering,

Trivandrum.

COORDINATOR





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SULEKHA S

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COORDINATOR









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NAVAMI KRISHNA S

Third year EEE

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From

Anuroopa A
Associate Professor & HOD
Department of Electrical and Electronics
ACE College of Engineering,
Thiruvananthapuram

Date: 25.04.2022

To

The Principal ACE College of Engineering, Thiruvananthapuram

Respected Sir,

Sub: Permission for Conducting Certificate Program - reg.

I am writing to request your permission to conduct an Add-on course on Accident Prevention and Risk Management in Electrical System for the students of I Year EEE. The course will be held from 9.05.2022 to 13.05.2022. Mrs.Jimshitha E S -Assistant Professor/EEE at ACE College of Engineering will be the coordinator of this program. I believe that the students will benefit from this program. The certificate will be provided by the department to each participant upon completion of the course. Kindly give our request a favorable consideration.

Your Faithfully

Anaroopa A

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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Date: 27/04/2022

It is hereby informed to all the first year students of the Electrical and Electronics Department that we are conducting a 5 Days training program on Accident Prevention and Risk Management in Electrical System from 09/05/2022 to 13/05/2022 at Electrical Department. All students are cordially invited to register & attend the training program.

Coordinator





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE21002 Accident Prevention and Risk Management in Electrical System ACADEMIC YEAR 2021-2022

COURSE CONTENT

Introduction To Electrical Safety, Shocks And Their Prevention (1 hr)

Objectives and principles of electrical safety (1 hr)

Approaches to prevent Accidents (1 hr)

Shocks (1 hr)

Prevention of shocks (1 hr)

Medical analysis of electric shocks and its effects (1 hr)

Safety precautions against contact shocks, flash shocks, burns, residential buildings (1 hr)

Electrical Safety in Residential Installations (2 hrs)

Electrical Safety in Commercial Installations (2 hrs)

Electrical Safety in Agricultural Installations (3 hrs)

Electrical Safety during Installation (2 hrs)

Electrical Safety during Testing and Commissioning (2 hrs)

Electrical Safety during Operation and Maintenance (3 hrs)

Electrical Safety in Hazardous Areas (1 hr)

Hazardous zones (1 hr)

Specifications of electrical plants (2 hr)

Equipment for hazardous locations (1 hr)

Classification of equipment enclosure for various hazardous gases and vapours (1 hr)

Classification of equipment/enclosure for hazardous locations (1 hr)

Fire Extinguishers (1 hr)

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Initiation of fires, types (1 hr)

Extinguishing techniques (1 hr)

Prevention of fire (1 hr)

Types of fire extinguishers (1 hr)

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RESOURCE PERSON PROFILE

Remanikanth S

Assistant Professor

Dept of Electrical and Electronics Engineering

ACE College of Engineering, Thiruvallom

Oualification:

 Bachelor of Technology in Electrical and Electronics Engineering from College of Engineering Munnar

 M Tech in Power Electronics and Drives from Government College of Engineering Tirunelveli Anna University

Publications:

- · Hybrid power generation using dual axis solar tracking system and wind energy system
- Immuno Antichemo Nanorobotic Treatment
- Survey on smart grid: Challenges and Solution
- Digitally Controlled switch mode power Supply Based on matrix converter using intelligent controller PEDC 13
- Digitally Controlled switch mode power Supply Based on matrix converter using Neuro / Fuzzy controller NACCEPA 2k13

Achievements:

- Life time member in "The Indian Society for Technical Education" LM 120580
- Guest lecturer in youtube channels eMeryt Plus, Centre C Electrical
- Teaching experience in Electrical and Electronics Engineering of 10 years

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14/85/2022	Electrical Sality in B	esidential Installations	T E A	Electrical Safety in Installatio		UNC	Decision	i Safety in Agricultural less	sulfacione
11/95/2022	Electrical Salety	during installation	B R E	Electrical Safety during Testing and Communicating		H B R	Electrical Safety charing Operation and Maintenance		Maintenance
12/85/2022	Electrical Safety in Hazardona Arras	Hazankou zuers	A K	Specification of ele	ectrical plants	E A K	Equipment for huturdous locations	Classification of equipment crickense for variants hazardous gases and vapours	Classification of inpaperation closure for haracters focusions
13/95/2022	Fire Entirquishers	Institutes of fires.		Exclusive strains	Presention of fire		Types of the entirguidants	EXAM	FEEDBACK.



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Duration: 09/05/2022 - 13/05/2022

Resource Person Mr. Remanikanth S

Coordinator (Assistant Professor)

Mrs. Jimshitha E S



Convener (HOD)

Anuroopa A

Dr. Farrukh Sayeed Principal





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ACE College of Engineering



Department of Electrical and Electronics Engineering Enrolled Students List

EEE21002 Accident Prevention and Risk Management in Electrical System

Academic Year 2021-2022					
SI No	Register Number	Name of Student	Signature		
1	ACE21EE001	ABHINANDH MS	Alex		
2	ACE21EE002	AJOBIN R G	A		
3	ACE21EE003	AMAL RAJ R S	Anal		
4	ACE21EE004	ANFAZ AZLAM S	Tim.		
5	ACE21EE005	ARIF MUHAMMED C A	Seit		
6	ACE21EE006	DEVIKA S S	Dealdle		
7	ACE21EE007	ENOSH S CLEETUS	Go		
8	ACE21EE008	GAUTHAM NAIR M	Certo		
9	ACE21EE009	MOHAMMED ADIL	Atout.		
10	ACE21EE010	MOHAMMED HAFIS H	-Pelis-		
1.1	ACE21EE011	MUHAMMED FINZER	Company of the same of the sam		
12	ACE21EE012	SAJIN S S	000		
13	ACE21EE013	SATHEESH CHANDRAN	Satheda		
14	ACE21EE014	SIVASREEDHAR M P	- five		
15	ACE21EE015	SIYAD SHARAFUDEEN	38.		

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

EEE21002 Accident Prevention and Risk Management in Electrical System

	Libratova	AT	TENDANCE SHEET	- Marian - Company - Compa	arear Cytrem	
SI No	Name of Student	09/05/2022	10/05/2022	11/05/2022	12/05/2022	13/05/2022
1	ABHINANDH MS	, a	Alax.	000	Q.	Char
2	AJOBIN R G	de-	De	0	A S	A
3	AMAL RAJ R S	Amu	Ana	Ame -	Ann	Zmal
4	ANFAZ AZLAM S	Tix.	N.	1	Too	17
5	ARIF MUHAMMED C A	delle	a,	dide.	etal	23
6	DEVIKA S S	De	Denter	took.	Durita	Della
7	ENOSH S CLEETUS	Bi-	Comme	Comment	ac	Com
8	GAUTHAM NAIR M	Cuth	an	Coste	Coff	Court
9	MOHAMMED ADIL	Jour	Adet	a	- Adul	Adel
10	MOHAMMED HAFIS H	-tulis	-thulan	Herfu	Huke	Hufu
11	MUHAMMED FINZER	FIF	Stea	7	CIA	2
12	SAJIN S S	TANK TO THE REAL PROPERTY OF THE PERTY OF TH	Set	XXX.	Ø#	Soft
13	SATHEESH CHANDRAN	Stern	- July	Salker	Sale	200
14	SIVASREEDHAR M P	Die	July	dis	du.	-JAG
15	SIYAD SHARAFUDEEN	- China	- Late	No.	82	80000

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ASSESSMENT QUESTIONS

EEE21002 Accident Prevention and Risk Management in Electrical System Academic Year: 2021-2022

(Each question carry one mark)

1. When someone asks you for a 10	lb. fire extinguisher, what a	loes the 10 lbs. represent?
A) The weight of the agent inside th	he fire extinguisher	
B) The entire weight of the fire exti	inguisher	
C) The weight of the fire extinguish	ner minus the weight of the	agent
D) The weight of the fire it can exte	erminate	
2. How far away should you stand v	when you are using a fire ex	tinguisher to put out a fire?
A) 4 feet		
B) 6 feet		
C) 8 feet		
D) 10 feet		
3. The best or safest form of electric	cal shock is	
A) freezing		
B) safety		
C) awareness		
D) no shock at all		
4. The within an electrical	al circuit is commonly refer	red to as the circuit voltage.
A) potential difference		
B) Either potential or potential diffe	erence	
C) potential		
D) potential summation		
5. The operating voltage of the equi	inment you are working wit	h determines the
voltage; or within the building, the		
A) distribution; circuit	COLLEG	
B) circuit; circuit	100	1
C) distribution; distribution	121	Day
D) circuit; distribution		
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You should always turn off or remo electrical circuit.	ve all power	making alterations to an
A) after		
B) either before or after		
C) before		
D) none of the above		
7. The forced flow or movement of th	e <u>electrons</u> is desc	ribed as the electrical
A) impedance		
B) current		
C) wattage		
D) voltage		
8. During a severe electrical shock,	burns a	are normally caused by contact with
the superheated air or surrounding me		
A) Arc		
B) Electrical		
C) All of The answers		
D) thermal-contact		
9. burns occur when cu	irrent flows along	the skin or within the body (most
dangerous).		
A) Fire		
B) none of the answers		
C) Electrical		
D) Either electrical or fire		
10. Because current will take every av	vailable path back	to its source. (this is where the
danger of electrical shock enters the p		
form a single path for current flow.		
A) isolated	CE COLLEGE	
B) inoculated	100	Contend
C) elevated	1	5
D) insulated	1 300	PRINCIPAL PRINCEPING
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INSPIRED BY PURPOSE

Department of Electrical and Electronics Engineering Assessment Marks

EEE21002 Accident Prevention and Risk Management in Electrical System Academic Year 2021-2022

SI No	Register Number	Name of Student	Marks
1	ACE21EE001	ABHINANDH MS	8
2	ACE21EE002	AJOBIN R G	10
3	ACE21EE003	AMAL RAJ R S	7
4	ACE21EE004	ANFAZ AZLAM S	8
5	ACE21EE005	ARIF MUHAMMED C A	9
6	ACE21EE006	DEVIKA S S	10
7	ACE21EE007	ENOSH S CLEETUS	10
8	ACE21EE008	GAUTHAM NAIR M	7
9	ACE21EE009	MOHAMMED ADIL	8
10	ACE21EE010	MOHAMMED HAFIS H	10
11	ACE21EE011	MUHAMMED FINZER	10
12	ACE21EE012	SAJIN S S	9
13	ACE21EE013	SATHEESH CHANDRAN	8
14	ACE21EE014	SIVASREEDHAR M P	9
15	ACE21EE015	SIYAD SHARAFUDEEN	10
16	ACE21EE017	SUMESH R SURESH	10

Tirras Rathe







B) circuit; circuit

D) circuit; distribution

C) distribution; distribution

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ASSESSMENT QUESTIONS

EEE21002 Accident Prevention and Risk Management in Electrical System Academic Year: 2021-2022



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(0)	(Each question carry one mark) - Ajobio RS
1. When someone asks y	you for a 10 lb. fire extinguisher, what does the 10 lbs. represent?
A) The weight of the ag	ent inside the fire extinguisher
B) The entire weight of	
	e extinguisher minus the weight of the agent
D) The weight of the fir	
2. How far away should	I you stand when you are using a fire extinguisher to put out a fire?
A) 4 feet	
B) 6 feet	
2/8 feet	
D) 10 feet	
3. The best or safest for	m of electrical shock is
A) freezing	
B) safety	
C) awareness	
D) no shock at all	
4. The within	an electrical circuit is commonly referred to as the circuit voltage.
. /	
A) potential difference	
B) Either potential or po	otential difference
C) potential	
D) potential summation	
5. The operating voltage	of the equipment you are working with determines the
	uilding, the voltage.
A) distribution: circu	



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6. You should always turn off or remove all power	making alterations to an
electrical circuit.	
A) after	
B) either before or after	
before	
D) none of the above	.1.
7. The forced flow or movement of the electrons is descri	ribed as the electrical
AV:	
A) impedance	
B) current	
C) wattage	
D) voltage	
8. During a severe electrical shock, burns as	re normally caused by contact with
the superheated air or surrounding metals of an arcing fa	지는 [2] 등 이상 (1일) 전 경기의 교통을 하면 하고 있는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하
the superheated an or surrounding metals of an areing fa	uit.
A) Arc	
B) Electrical	
(2) All of The answers	
D) thermal-contact	
NA TOTAL STREET	
 burns occur when current flows along t 	he skin or within the body (most
dangerous).	
A) Fire	
B) none of the answers	
E) Electrical	
D) Either electrical or fire	
10. Because current will take every available path back t	o its source. (this is where the
danger of electrical shock enters the picture), the circuit	가게 보다 이 원생님 이 아름이 살아가지 않는데 어린 생물을 받았다. 그리고 하는데
form a single path for current flow.	
rom a single pain for carron now.	
A) isolated	
B) inoculated	15
C) elevated	- 0
D) insulated	PRINCIPAL
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ASSESSMENT QUESTIONS

EEE21002 Accident Prevention and Risk Management in Electrical System Academic Year: 2021-2022 (d1

(1/0)	(Each question carry one mark)	Anf Muhammed C
1. When someone asks you j	for a 10 lb. fire extinguisher, what d	oes the 10 lbs. represent?
A) The weight of the agent B) The entire weight of the C) The weight of the fire ex D) The weight of the fire it	fire extinguisher tinguisher minus the weight of the a	agent
2. How far away should you	a stand when you are using a fire ex	tinguisher to put out a fire?
A) 4 feet D) 6 feet C) 8 feet D) 10 feet		
3. The best or safest form of	f electrical shock is	
A) freezing B) safety C) awareness D) no shock at all		
4. The within an	electrical circuit is commonly referr	ed to as the circuit voltage.
A) potential difference		
B) Either potential or potent	tial difference	
C) potential		
D) potential summation		
voltage; or within the buildi A) distribution; circuit	the equipment you are working withing, thevoltage.	determines the
B) circuit; circuit C) distribution; distribution D) circuit; distribution	on January 1855	PRINCIPAL ACE College of Engineering Thirtyallam P.O Thirtyallam P.O Thirtyallam agusan-595 027
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6. You should always turn off or remove all power making alterations to an
electrical circuit.
A) after
B) either before or after
Cybefore
D) none of the above
7. The forced flow or movement of the <u>electrons</u> is described as the electrical
A) impedance
B) current
C) wattage
D) voltage
8. During a severe electrical shock, burns are normally caused by contact with
the superheated air or surrounding metals of an arcing fault.
A) Arc
B) Electrical
C) All of The answers
D) thermal-contact
9burns occur when current flows along the skin or within the body (most
dangerous).
AFFire
B) none of the answers
C) Electrical
D) Either electrical or fire
10. Because current will take every available path back to its source, (this is where the
danger of electrical shock enters the picture), the circuit conductors must be to
form a single path for current flow.
A) isolated
B) inoculated
C) elevated
D) insulated
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ASSESSMENT QUESTIONS

EEE21002 Accident Prevention and Risk Management in Electrical System Academic Year: 2021-2022 (Each question carry one mark) Sivacreedhay M ? 1. When someone asks you for a 10 lb. fire extinguisher, what does the 10 lbs. represent? A) The weight of the agent inside the fire extinguisher B) The entire weight of the fire extinguisher C) The weight of the fire extinguisher minus the weight of the agent D) The weight of the fire it can exterminate 2. How far away should you stand when you are using a fire extinguisher to put out a fire? A) 4 feet B) 6 feet C) 8 feet D) 10 feet The best or safest form of electrical shock is A) freezing B) safety C) awareness D) no shock at all within an electrical circuit is commonly referred to as the circuit voltage. 4. The A) potential difference B) Either potential or potential difference C) potential D) potential summation 5. The operating voltage of the equipment you are working with determines the voltage; or within the building, the voltage.

A) distribution; circuit

B) circuit; circuit

C) distribution; distribution

D) circuit; distribution







You should always turn off or remove all power making alterations to an
electrical circuit.
A) after
B) either before or after
Cybefore
D) none of the above
7. The forced flow or movement of the electrons is described as the electrical
A) impedance
B) current
C) wattage
D) voltage
D) vollage
8. During a severe electrical shock, burns are normally caused by contact with
the superheated air or surrounding metals of an arcing fault.
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A) Ara
A) Arc B) Electrical
C) All of The answers
D) thermal-contact
D) thermal-contact
 burns occur when current flows along the skin or within the body (most
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dangerous).
A) Fina
A) Fire B) none of the answers
C) Electrical
D) Either electrical or fire
D) Either electrical of life
10 D
10. Because current will take every available path back to its source, (this is where the
danger of electrical shock enters the picture), the circuit conductors must be to
form a single path for current flow.
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A) isolated
B) inoculated
C) elevated D) ingulated
D) insulated PRINCIPAL PRINCIPAL PRINCIPAL
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ASSESSMENT QUESTIONS

EEE21002 Accident Prevention and Risk Management in Electrical System Academic Year: 2021-2022

$(\sigma)^{(\sigma)}$	(Each question carry one mark)	WOHAMMED ADIL
1. When someone asks y	you for a 10 lb. fire extinguisher, what d	oes the 10 lbs. represent?
A) The weight of the ag	ent inside the fire extinguisher	
B) The entire weight of	NOTE: 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	e extinguisher minus the weight of the	agent
D) The weight of the fir	하는 그렇지 하는 아이들이 하는 것이 하는 것이 없는 것이 없었다.	
2. How far away should	you stand when you are using a fire ex	tinguisher to put out a fire?
A) 4 feet		
B) 6 feet		
CY8 feet	~/	
D) 10 feet		
3. The best or safest for	m of electrical shock is	
A) freezing		
B) safety		
C) awareness		
D) no shock at all		
4. The within	an electrical circuit is commonly refer	red to as the circuit voltage.
A) potential difference		
B) Either potential or po	otential difference	
C) potential	X	
D) potential summation	/ `	
5. The operating voltage voltage; or within the be	e of the equipment you are working with uilding, the voltage.	determines the
A) distribution; circu	it M	1

B) circuit; circuit

C) distribution; distribution

D) circuit; distribution

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 You should always turn off or remove all po- electrical circuit. 	wer making alterations to an
A) after	
B) either before or after	
Cybefore	
D) none of the above	
7. The forced flow or movement of the electron	ns is described as the electrical
A) impedance	
B) current	10
C) wattage	
D) voltage	
8. During a severe electrical shock, the superheated air or surrounding metals of an	_ burns are normally caused by contact with arcing fault.
A) Arc	
B) Electrical	
(C) All of The answers	
D) thermal-contact	
9 burns occur when current flow	ws along the skin or within the body (most
dangerous).	
A) Fire	
B) none of the answers	
C) Electrical	
D) Either electrical or fire	
10. Because current will take every available p	ath back to its source, (this is where the
danger of electrical shock enters the picture), the	ne circuit conductors must beto
form a single path for current flow.	Voltage to Charles and Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-
A) isolated	IF EAR
B) inoculated	12
C) elevated	
Dy insulated	- John Sandipal
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ASSESSMENT QUESTIONS

EEE21002 Accident Prevention and Risk Management in Electrical System Academic Year: 2021-2022

Amal Ray RS (Each question carry one mark)

1. When someone asks you for a 10 lb. fire extinguisher, what does the 10 lbs. represent?
A) The weight of the agent inside the fire extinguisher
B) The entire weight of the fire extinguisher
C) The weight of the fire extinguisher minus the weight of the agent
D) The weight of the fire it can exterminate
2. How far away should you stand when you are using a fire extinguisher to put out a fire
A) 4 feet
B) 6 feet
CY8 feet
D) 10 feet
3. The best or safest form of electrical shock is
A) freezing
B) safety
C) awareness
D) no shock at all
4. The within an electrical circuit is commonly referred to as the circuit voltage
A) potential difference
B) Either potential or potential difference
C) potential
D) potential summation
5. The executing voltage of the equipment you are weathing with determines the
5. The operating voltage of the equipment you are working with determines the
voltage; or within the building, the voltage.
A) distribution; circuit

- B) circuit; circuit
- Odistribution; distribution
- D) circuit; distribution



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6. You should always turn off or remove all power making alterations to an electrical circuit.
A) after
B) either before or after
C) before
D) none of the above
7. The forced flow or movement of the <u>electrons</u> is described as the electrical
A) impedance
B) current
C) wattage
D) voltage
8. During a severe electrical shock, burns are normally caused by contact with the superheated air or surrounding metals of an arcing fault.
AYAre
B) Electrical
C) All of The answers
D) thermal-contact
 burns occur when current flows along the skin or within the body (most
dangerous).
A) Fire
B) none of the answers
C) Electrical
D) Either electrical or fire
10. Because current will take every available path back to its source, (this is where the
danger of electrical shock enters the picture), the circuit conductors must be
form a single path for current flow.
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A) isolated
B) inoculated
C) elevated
D) insulated ACE College of Engineering
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

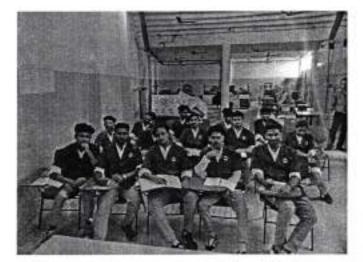
Summary Report with Course Outcome 2021-2022

Course Name	Accident Prevention and Risk Management in Electrical System
Course Code	EEE21002
Course Duration	33 Hours
Year offered	2021-2022
Course Instructors	Mr. Remanikanth S, Assistant Professor, EEE
Course type	Self framed value added course

Course outcome

The students would be able to outline the electrical safety during installation, testing and outline commissioning.

commissioning.



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Assessment Mode

Attendance	35 Hrs		
Number of Participants	16		
Scheme of exam	Physical Answer sheet mode		
Date of exam	13/05/2022		

Course Coordinator



BY PURPOSE

ACE College of Engineering

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Course Coordinator Report 2021-2022

Course Name	Accident Prevention and Risk Management in Electrical System			
Course Code	EEE21002			
Course Duration	33 Hours			
Year Offered	2021-2022			
Course Coordinator	Mrs. Jimshitha E S			
Course Type	Self framed value added course			

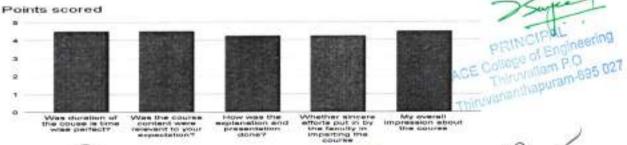
The Certificate program of Electrical Safety was conducted for the 1st year Electrical and Electronics Engineering Students. The total period of 33 Hrs has been planned and executed as per the course plan.

Assessment Mode

LEGISE	AMERICANUS
Number of students Enrolled	16
Number of students Appeared	16
Scheme of exam	Physical Answer sheet mode
Date of exam	13/05/2022
Number of students Passed	16

Course Feedback:

The feedback was obtained from the participants after the end of the course and detailed analysis reports are Listed below.



Course Coordinator







CERTIFICATE

OF COMPLETION

This is to certify that ____ANFAZ AZLAM S

FIRST YEAR EEE has undergone the training

programme on Accident Prevention and Risk Management in Electrical System organized by the Department of Electrical and Electronics Engineering, ACE College of Engineering,

Trivandrum on 09.05.2022 to 13.05.2022.





CERTIFICATE

OF COMPLETION

This is to certify that _____AMAL RAJ R S

FIRST YEAR EEE

has undergone the training

programme on Accident Prevention and Risk Management in Electrical System organized by the Department of Electrical and Electronics Engineering, ACE College of Engineering,

Trivandrum on 09.05.2022 to 13.05.2022



CERTIFICATE

OF COMPLETION

This is to certify that ____SIYAD SHARAFUDEEN

FIRST YEAR EEE has undergone the training

programme on Accident Prevention and Risk Management in Electrical System organized by the Department of Electrical and Electronics Engineering, ACE College of Engineering,

Trivandrum on 09.05.2022 to 13.05.2022.



CERTIFICATE

OF COMPLETION

This is to certify that ___MUHAMMED FINZER

FIRST YEAR EEE has undergone the training

programme on Accident Prevention and Risk Management in Electrical System organized by the Department of Electrical and Electronics Engineering, ACE College of Engineering,

Trivandrum on 09.05.2022 to 13.05.2022.





CERTIFICATE

OF COMPLETION

This is to certify that _____ DEVIKASS

FIRST YEAR EEE has undergone the training

programme on Accident Prevention and Risk Management in Electrical System organized by the Department of Electrical and Electronics Engineering, ACE College of Engineering, Trivandrum on 09.05.2022 to 13.05.2022







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From

Ms.Priya C V

HOD, Department of Civil Engineering,

ACE College of Engineering,

Trivandrum

To

The Principal

ACE College of Engineering.

Trivandrum

Respected Sir

Sub: Permission for conducting the workshop Reg:-

The Department of Civil Engineering is planning to conduct a 5 days' workshop on 'Revit architecture(CE21001)' for our third year students from 13/12/2021 to 17/12/2021 at ACE College of Engineering in association with CAD Desk. The certification will be given by the department itself. So, I kindly request you to grant permission for conducting the workshop.

Thanking You

ACE TVM, 25/11/2021 Yours Sincerely









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DEPARTMENT OF CIVIL ENGINEERING

Circular

Date: 3/12/2021

We are extremely happy to inform you that Department of Civil engineering will be conducting a 5 day (35 Hrs.) training program on 'Revit Architecture(CE21001)' for third year Civil Engineering students at CAAD Lab, ACE College of Engineering from 13/12/2021 to 17/12/2021. The certification will be issued by the department. Students are requested to register and attend the program. Fullest cooperation is solicited for the successful conduct of the training.

Course Coordinator

HOD

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Description F-0

Description

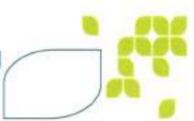






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DEPARTMENT OF CIVIL ENGINEERING Course Content for Revit Architecture(CE 21001)

Academic Year: 2021-22

COURSE CONTENT

- IntroductionProject Units, Levels & Walls (2 hrs)
- Modifying Tools
 Doors, Windows, Floor, Column & Roofs (2 hrs)
- Components, Model in Place (3 hrs)
- Wall types, Stacked wall, Curtain walls (2 hrs)
- Wall Opening, Vertical opening (2 hrs)
- Stairs, Ramps & Railing (3 hrs)
- Massing, Creating Forms, Toposurface & Site Components (2 hrs)
- Materials, Lights, Camera & Rendering (2 hrs)
- Dimension, Area, Room & Room Separator (3 hrs)
- Section, Callout, Elevation, Drafting Views & Duplicate Views (2 hrs)
- Family Creation(1 hrs)
- Site Design, Walkthrough (2 hrs)
- Link Revit, Workshare, Import CAD & Decal (3 hrs)
- Detail Line, Color Fill Legends, Text, Model Text & Region (2 hrs)
- Schedule/Quantities & Material Takeoff (2 hrs)
- Sheets & Printing (1 hrs)
- Project (1 hrs)





Resource Person: Mr. Rajesh is one of the software instructors in CAD Desk, with eminent knowledge about all the civil engineering softwares. CAD DESK is the leading software training institute in India, which offers vast range of courses in the fields of CAD, CAM and CAE.CAD DESK is the Authorized Training Partner of Autodesk, PTC, Bentley Systems and Dassault Systemes

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DEPARTMENT OF CIVIL ENGINEERING

Timetable for Revit Architecture(CE21001)

Academic Year: 2021-22 Date: 09/12/2021

DAY/	1	2		3	4		5	6	7
PERIOD	8.30am- 9.30am	9.30am- 10.30am		10.45am- 11.35am	11.35am- 12.25pm		1.20pm- 2.15pm	2.15pm- 3.10pm	3.15pm- 4.05pm
13/12/2021	IntroductionProject Units, Levels & Walls (Section 1) Wall types, Stacked wall, Curtain walls (Section 2)			Modifying Tools (Section 1)			Components, Mo (Section	ents, Mode (Section 1)	
14/12/2021			***		opening		Stairs, Ramps (Section		
15/12/2021	Massing, Creating Forms, Toposurface & Site Components (Section 3)		Break	Material Camera &	, Lights, Lunch		Dimension, Area, Room & Room Separator (Section 3)		
16/12/2021	Section, Callout, Elevation, Drafting Views & Duplicate Views (Section 4)			Family Creation, Site Design, Walkthrough (Section 4)			Link Revit, Workshare, Import CAD & Decal (Section 4)		
17/12/2021	Fill Lege Model	ine, Color ends, Text, Text & Section 5)		Material	uantities & Takeoff ion 5)			Printing, Section 5)	Feed back

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Duration: 13/12/2021 - 17/12/2021

Resource person

CAD Desk



Convener (HOD) Priya C. V

Coordinator (Assistant Professor)

Jisha G S



Dr. Farrukh Sayeed Principal





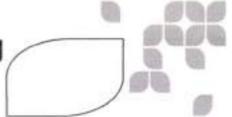




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DEPARTMENT OF CIVIL ENGINEERING Enrolled Students List for Revit Architecture (CE21001)

Academic Year: 2021-22 Date: 10/12/2021

SI. No.	Register Number	Candidate Name	Signature
1.	ACE19CE001	ABHINAV VINOD	*
2.	ACE19CE002	ADHILA SHAKKEER	Adhles
3.	ACE19CE003	AFRIN A	de
4.	ACE19CE004	ALEEM MUHAMMED A	Hu
5.	ACE19CE005	AMUDA U S	Ad
6.	ACE19CE006	ANOOP S S	Aner
7.	ACE19CE007	ARJUN SANAL	Logo
8.	ACE19CE008	ARYA A K	Arya.
9.	ACE19CE010	ASHISH GEORGE	the .
10.	ACE19CE011	ASWAN J M	And
11.	ACE19CE013	ASWIN KRISHNAN A S	B-
12.	ACE19CE014	ATHIRA S	AL
13.	ACE19CE016	GOKUL A	Gol
14.	ACE19CE017	HARIKES M	Gariles.
15.	ACET9CE018	KAMAL S BABU	Karel D
16,	ACE19CE019	KRISHNAPRIYA M	kel
17.	ACE19CE020	KRISHNARAJ R S	behre)
18.	ACE19CE022	MUHAMMED FARHAN F	M
19.	ACE19CE023	MUHAMMED SAAD A	ArubuSo Rube
20.	ACE19CE024	MUHZIN N	Ruhe

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22.	ACE19CE027	NITHIN KRISHNA S	Mh
23.	ACE19CE028	POOJA J S	peole
24.	ACE19CE029	SARANYA M B	Gany
25.	ACE19CE030	SOORAJ R SURESH	Sory
26.	ACE19CE031	SREELAKSHMI P S	Seelelin

SI. No.	Register Number	Candidate Name	Signature
27.	ACE19CE032	SREE SIVAHARI R S	Co.
28.	ACE19CE033	S R HAREESH NATH	SIL
29.	ACE19CE034	SUJIN S	Sup
30.	ACE19CE036	SWAYA S BRIGHT	Georga
31.	ACE19CE037	TEENA STEPHEN	Leura
32.	ACE19CE038	VISWAJITH S B	Imagth.
33.	ACE19CE039	VIVEK R S	Which

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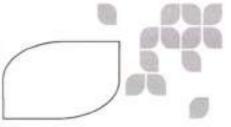




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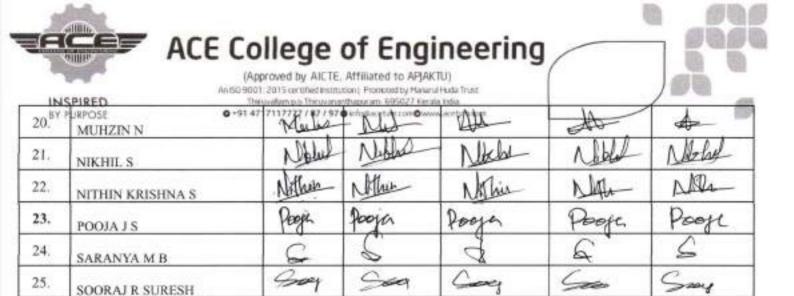


DEPARTMENT OF CIVIL ENGINEERING

Attendance Sheet for Revit Architecture(CE21001)

Academic Year: 2021-22 Course from 13/12/2021to 17/12/2021

SI. No.	Student Name		Kindly Sign Ag	gainst your Nam	e	
		13/12/2021	14/12/2021	15/12/2021	16/12/2021	17/12/2021
1.	ABHINAV VINOD	a	a.	4	A	do.
2,	ADHILA SHAKKEER	XIndi	Adheli	Adhile	Adhila	Adhila
3.	AFRIN A	Xfrin	Afrin	Afrin	Afair	Afran
4.	ALEEM MUHAMMED A	Lucen	Alus	Dlum	Aliem	Neen
5.	AMUDA U S	Amude	Amely	Annala	Amuela	Annel
6.	ANOOP S S	Ansop	Aneop	Anogo	Anosp	Ansop
7,	ARJUN SANAL	St.	A	de	*	d
8.	ARYA A K	Auga	Anya	Aaya	Aryen	Auge
9.	ASHISH GEORGE	AL.	Steh	Ash	deh	Did
10.	ASWAN J M	Aswan	Aswan	Aswan	Aswan	Awan
11.	ASWIN KRISHNAN A S	Azeon	Azu	Asu	ASD_	deut-
12.	ATHIRA S	4	-4-	-A	4	1
13.	GOKUL A	Gre	Gu	- Gn	G	Bu
14.	HARIKES M	Aa-	Ha	Ha	Hai	Da.
15,	KAMAL S BABU	Danal	Dame	Game!	Earne	Danal
16.	KRISHNAPRIYA M	10	A	k	l	b
17.	KRISHNARAJ R S	perhapp	Cooling	busy	Kala	k
18.	MUHAMMED FARHAN F	A	A 18/	DE CO	#	Û.
19.	MUHAMMED SAAD	Tol	04	Ask.	As .	#



SI.		Kindly Sign Against your Name				
No.	Student Name	13/12/2021	14/12/2021	15/12/2021	16/12/2021	17/12/2021
26.	SREELAKSHMI P S	8	.9	Q	6	5
27.	SREE SIVAHARI R S	GreSoah	- Creesinh	South	Spaling	See
28.	S R HAREESH NATH	SB	4	85_	20	86
29.	SUJIN S	Gryp N	SeyiN	SeyiN	Supen	Super
30.	SWAYA S BRIGHT	Sacyc	Suy	N ·	Szus	Su
31.	TEENA STEPHEN	tena	Teens	Tours	teeng.	Teens
32.	VISWAJITH S B	Uswayt	Assugiff	Virugith	Jungoth	Unw
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DEPARTMENT OF CIVIL ENGINEERING

Course Completion Students List for Revit Architecture (CE21001)

Academic Year: 2021-22 Date: 10/12/2021

cai.	2021-22		Date: 10	
SI. No.	Register Number	Candidate Name	Course Completed	
1,	ACE19CE00	ABHINAV VINOD	✓	
2.	ACE19CE00	ADHILA SHAKKEER	1	
3.	ACE19CE00 3	AFRIN A	1	
4.	ACE19CE00 4	ALEEM MUHAMMED A	1	
5.	ACE19CE00 5	AMUDA U S	✓	
6.	ACE19CE00 6	ANOOP S S	1	
7.	ACE19CE00 7	ARJUN SANAL	1	
8.	ACE19CE00 8	ARYA A K	1	
9.	ACE19CE01 0	ASHISH GEORGE	1	
10.	ACE19CE01	ASWAN J M	1	
11.	ACE19CE01	ASWIN KRISHNAN A S	1	
12.	ACE19CE01 4	ATHIRA S	1	
13.	ACE19CE01 6	GOKUL A	1	
14.	ACE19CE01 7	HARIKES M	1	
15.	ACE19CE01 8	KAMAL S BABU	1 4	
16.	ACE19CE01 9	KRISHNAPRIYA M	v (at-	
17.	ACE19CE02 0	KRISHNARAJ R S	1 His	
18.	ACE19CE02 2	MUHAMMED FARHAN F	1	
19.	ACE19CE02 3	MUHAMMED SAAD A	1	



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20.	ACE19CE024	MUHZIN N	√
21.	ACE19CE026	NIKHIL S	1
22.	ACE19CE027	NITHIN KRISHNA S	✓
23.	ACE19CE028	POOJA J S	✓
24.	ACE19CE029	SARANYA M B	✓
25.	ACE19CE030	SOORAJ R SURESH	✓
26.	ACE19CE031	SREELAKSHMI P S	✓

SI. No.	Register Number Candidate Name		Course Completed	
27.	ACE19CE032	SREE SIVAHARI R S	V	
28.		S R HAREESH NATH	✓	
29.	ACE19CE034	SUJIN S	√	
30.	ACE19CE036 SWAYA S BRIGHT		V	
31. ACE19CE037		TEENA STEPHEN	1	
32.	ACE19CE038	VISWAJITH S B	1	
33.	ACE19CE039	VIVEK R S	V	

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Academic Year: 2021-22

ACE College of Engineering

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DEPARTMENT OF CIVIL ENGINEERING

Assessment marks for Revit Architecture(CE21001)
r: 2021-22 Date: 6/01/2022

SI. No.	Register Number	Candidate Name	Marks (20)
1.	ACE19CE001	ABHINAV VINOD	20
2.	ACE19CE002	ADHILA SHAKKEER	20
3.	ACE19CE003	AFRIN A	18
4.	ACE19CE004	ALEEM MUHAMMED A	18
5.	ACE19CE005	AMUDA U S	20
6.	ACE19CE006	ANOOP S S	20
7.	ACE19CE007	ARJUN SANAL	18
8.	ACE19CE008	ARYA A K	20
9.	ACE19CE010	ASHISH GEORGE	20
10.	ACE19CE011	ASWAN J M	20
11.	ACE19CE013	ASWIN KRISHNAN A S	18
12.	ACE19CE014	ATHIRA S	20
13.	ACE19CE016	GOKUL A	20
14.	ACE19CE017	HARIKES M	20
15.	ACE19CE018	KAMAL S BABU	18
16.	ACE19CE019	KRISHNAPRIYA M	20
17.	ACE19CE020	KRISHNARAJ R S	20
18.	ACE19CE022	MUHAMMED FARHAN F	20 7660
19.	ACE19CE023	MUHAMMED SAAD A	18
20.	ACE19CE024	MUHZIN N	18



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ACE College of Engineering

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21.	ACE19CE026	NIKHIL S	20
22.	ACE19CE027	NITHIN KRISHNA S	20
23.	ACE19CE028	POOJA J S	20
24.	ACE19CE029	SARANYA M B	20
25.	ACE19CE030	SOORAJ R SURESH	20
26.	ACE19CE031	SREELAKSHMI P S	20

SI. No.	Register Number	Candidate Name	Marks (20)
27.	ACE19CE032	SREE SIVAHARI R S	18
28.	ACE19CE033	S R HAREESH NATH	18
29.	ACE19CE034	SUJIN S	20
30.	ACE19CE036	SWAYA S BRIGHT	20
31.	ACE19CE037	TEENA STEPHEN	20
32.	ACE19CE038	VISWAJITH S B	18
33.	ACE19CE039	VIVEK R S	20

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DEPARTMENT OF CIVIL ENGINEERING

Value Added Course Summary with Course Outcome Ac. Yr. 2021-2022

Course Name : Revit Architecture(CE21001)

Course Duration : 35 Hours

Year offered : Third Year CE Students

Course Instructors : Mr. Rajesh

CAD Desk

Course Outcome

The students would be able to create a unified model that all disciplines and trades can use to complete their work.

Course type Self framed value added course

Assessment Mode

Attendance : 35 Hrs
Number of Participants : 33
Scheme of exam : Software
Date of exam : 04 01 2022

Glimpses



Students actively participating in the Revit Architecture course

Course Coordinator

ACE College of Engineering
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DEPARTMENT OF CIVIL ENGINEERING ENGINEERING Course Coordinator Report

Course Name

Revit Architecture(CE21001)

Course Duration

35 Hours

Year offered

Third Year CE Students

Course Coordinator

Ms. Vindhuja VS

Course type

Assistant Professor/ CE

13

:

Self framed value added course

The Certificate program of 'Revit Architecture' was conducted for the third year Civil Engineering students. The total period of 35 hrs has been planned and executed as per the course plan.

Assessment Mode

Number of students Enrolled

33

Number of students Appeared

33

Scheme of exam

Software

Date of exam

04/01/2022

Number of students Passed

33

Course Feedback:

The feedback was obtained from the participants after end the course and detailed analysis report are Listed below.





This certificate is presented to

ANOOP S S

Upon successful completion on training on Revit Architecture during 13-12-2021 to 17-12-2021 organized by Department of Civil Engineering, ACE College of Engineering, Thiruvallam

Soordinator



HOD





This certificate is presented to

GOKUL A

Upon successful completion on training on Revit Architecture during 13-12-2021 to 17-12-2021 organized by Department of Civil Engineering, ACE College of Engineering, Thiruvallam

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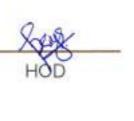
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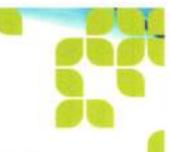
Coordinator



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CERTIFICATE

This certificate is presented to

POOJA J S

Upon successful completion on training on Revit Architecture during 13-12-2021 to 17-12-2021 organized by Department of Civil Engineering, ACE College of Engineering, Thiruvallam

coordinator



BY PURPOSE







** This certificate is presented to **

SREELAKSHMI P S

Upon successful completion on training on Revit Architecture during 13-12-2021 to 17-12-2021 organized by Department of Civil Engineering, ACE College of Engineering, Thiruvallam

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From

Ms.Priya C V

HOD, Department of Civil Engineering,

ACE College of Engineering,

Trivandrum

To

The Principal

ACE College of Engineering,

Trivandrum

Respected Sir

Sub: Permission for conducting the workshop

The Department of Civil Engineering is planning to conduct a 5 days training programme on 'AutoCAD 3D(CE21002)' for our second year students from 04/01/2022 to 08/01/2022 at ACE College of Engineering in association with INTERCAD. The certification will be issued by the department itself. So, I kindly request you to grant permission for conducting the workshop.

Thanking You

ACE TVM, 21/12/2020 Yours Sincerely





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DEPARTMENT OF CIVIL ENGINEERING

Circular

Date: 02/01/2022

We are extremely happy to inform that Department of Civil Engineering will be conducting 5 Days (34 Hrs.) training program on 'AutoCAD 3D(CE21002)' for second year Civil Engineering students at CADD Lab, ACE College of Engineering from 04/01/2022 to 08/01/2022 by Vindhuja V.S. The certification will be issued by ACE College of Engineering. Students are requested to register and attend the program. Fullest cooperation is solicited for the successful conduct of the training.

Course Coordinator

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DEPARTMENT OF CIVIL ENGINEERING Course Content for AutoCAD 3D(CE21002)

Academic Year: 2021-22

COURSE CONTENT

- 1. 3D viewing techniques (2 hrs)
- Working with simple and composite solids (2 hrs)
- Creating complex solids and surfaces (3 hrs)
- Modifying objects in 3D space (2 hrs)
- 5. Editing solids (2 hrs)
- Creating sections (2 hrs)
- Camera perspectives, Animations (2 hrs)
- Working with point clouds (2 hrs)
- Converting 3D objects (2 hrs)
- 10. Setting up a rendering with materials and lights (3 hrs)
- 11. Creating 2D drawings from 3D models (2 hrs)
- 12. Working with the User Coordinate System (2 hrs)
- Set up a drawing for 3D Prints (3 hrs)
- 14. Practice (5 hrs)

Resource Person: Ms. Anju is one of the software instructors in CAD Desk, with eminent knowledge about all the civil engineering softwares. CAD DESK is the leading software training institute in India, which offers vast range of courses in the fields of CAD, CAM and CAE.CAD DESK is the Authorized Training Partner of Autodesk, PTC, Bentley Systems and Dassault

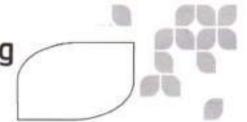
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Timetable for AutoCad-3D(CE21002)

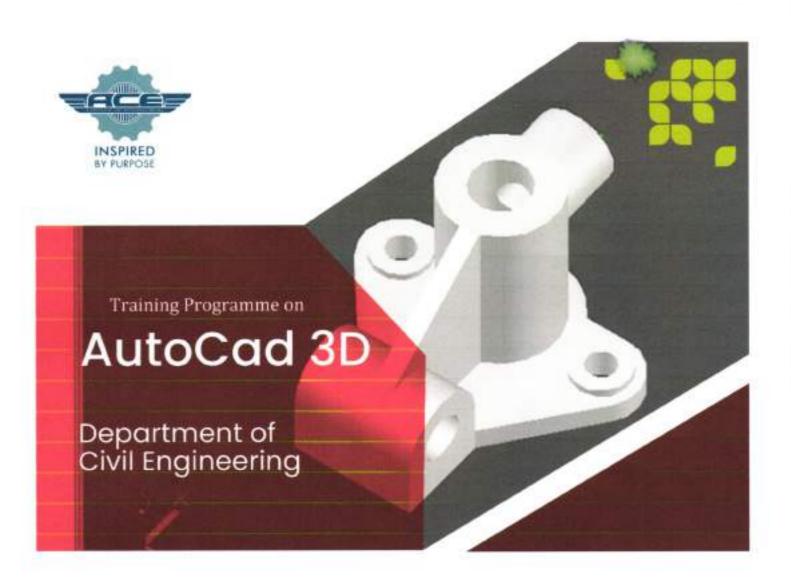
Academic Year: 2021-22 Date: 03/01/2022

DAY	1	2		3	4		3	6	7
PERIOD	8.30am- 9.30am	9.30am-1 0.30am		10.45am- 11.35am	11.35am-1 2.25pm		1.20pm- 2.15pm	2.15pm- 3.10pm	3.15pm- 4.05pm
04 01 2022	techi	niques tion 1)		and comp	with simple osite solids tion 1)		CACCA-55-00-1	ng complex s rfaces (Secti	
05 01 2022	3D	g objects in space tion 2)	Break	0.000	g solids tion 2)	Lunch Break		ing sections ctives, and a (Section 2	nimations
06 01 2022		with point Section 3)		4.547 1 CO. HOURS IN 15 15 15	3D objects ion 3)			g up a rende s and lights	
07 01 2022	drawing	ing 2D s from 3D Section 4)		Working with the User Coordinate System (Section 4)				ip a drawing rints(Sectio	
08 01 2022	Practice	(Section 5)		Practice(Practice(Section 5)		Practice (Section 5)	Feedback

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Thirty enanthapurum 695 CLT





Duration: 04/01/2021 - 08/01/2021

Resource Person

CAD Desk

Coordinator (Assistant Professor)

Jisha G S



Convener (HOD) Priya C. V

Dr. Farrukh Sayeed Principal

www.acetvm.com



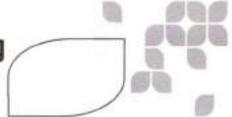


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DEPARTMENT OF CIVIL ENGINEERING Enrolled Students List for AutoCAD 3D(CE21002)

Academic Year: 2021-22 Date: 04/01/2022

SI. No.	Register Number	Candidate Name	Signature
1.	ACE20CE001	AADITHYAN S S	Ad .
2.	ACE20CE002	ABDUL BASITH S	Modulla
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5.	ACE20CE005	ABHIJITH PRAKASH	Abi
6.	ACE20CE006	ABHIRAMI M S	16
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8.	ACE20CE008	ABIN S B	16.
9.	ACE20CE009	ABJIN B	A
10.	ACE20CE010	ADARSH M S	Adash
11.	ACE20CE011	AISWARYA C S	Adarsh
12.	ACE20CE012	AITHEEHA SHARMA	AS
13.	ACE20CE013	AL AMEEN M	1
14.	ACE20CE014	ALFIYA A	How
15.	ACE20CE016	ARATHY C S	Anathy 6
16.	ACE20CE017	ARUN ASHOK	Ann
17.	ACE20CE018	ASHNA M	Ah
18.	ACE20CE019	ASHNA SHAЛL	+
19.	ACE20CE021	ASWIN AJITH	48,
20.	ACE20CE022	BIBIN BIJU	Beben



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21.	ACE20CE023	DARSHAN A S	Dagshah
22.	ACE20CE024	HASNA LB	Masha
23.	ACE20CE025	IJAS MUHAMMED M	Jias
24.	ACE20CE026	JITHIN P M	Tithu
25.	ACE20CE028	MARIYAM S	Marija
26.	ACE20CE029	MOHAMMED ABDUL KHADER M	MAR

SI. No.	Register Number	Candidate Name	Signature
27.	ACE20CE030	MOHAMMED FADHI FAIZEL	fadhi
28.	ACE20CE031	MUHAMMEDH YASEEN H K	yaven
29.	ACE20CE032	NANDHA B S	Klandha
30.	ACE20CE033	NANDHU SIVARAM V	* landh
31.	ACE20CE034	NANDINI M G	Saduni
32.	ACE20CE035	NITHYA BIJU	Mayin
33.	ACE20CE036	RISHIKESH J S	Rishi
34.	ACE20CE037	SUBIN S S	Sulin
35.	ACE20CE038	VINEETH E	Uneeth
36.	ACE20CE039	XAVIER J	Xavier

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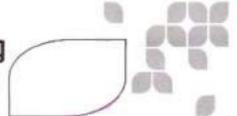
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DEPARTMENT OF CIVIL ENGINEERING Attendance Sheet for AutoCAD 3D(CE21002)

cad	emic Year: 2	021-22		Course fro	m 04/01/2	2022 to 05	8/01/2022
SL No.	Register Number	Candidate Name	04/01/22	05/01/22	06/01/22	07/01/22	08/01/22
1.	ACE20CE001	AADITHYAN S S	Ladityan	later.	Analy	Jadilye	Andily
2.	ACE20CE002	ABDUL BASITH S	sh-	at-	A	d	A
3.	ACE20CE003	ABDULLA SR	Alb-	2HZ	c×18_	all	A
4.	ACE20CE004	ABHUITH ASI	sub-lisi	Alake	Ma	Abaki	Abab,
5.	ACE20CE005	ABHUITH PRAKASH	Abjoh	phyth	Abjuly	Abjoit	Abjuth
6.	ACE20CE006	ABHIRAMI M S	1	A	at	A	of
7.	ACE20CE007	ABHIYA AS	De	sk-	- ph	A	A
S.	ACE20CE008	ABIN S B	st-	DA.	abt.	st.	9
9.	ACE20CE009	ABJIN B	Shopin	Hain	Jugar	Abju.	Myir
10.	ACE20CE010	ADARSH M S	Adash	Aderh	Appel	Adach	Adah
11.	ACE20CE011	AISWARYA C S	ALL	the	Au	Ju	Au
12.	ACE20CE012	AITHEEHA SHARMA	Albeh	Arbeah	Adeely	Arlach	Aleeha
13.	ACE20CE013	AL AMEEN M	A	X	xtr	de	gh
14.	ACE20CE014	ALFIYA A	Me	Me	Alfa	Alfi	Alfer
15.	ACE20CE016	ARATHY C S	shelly	Anathy	Anally	Acally	Anathy
16.	ACE20CE017	ARUN ASHOK	Am	Jan	New	Low	Jun
17.	ACE20CE018	ASHNA M	Alban	Adrine	Ashna		Ashna
18.	ACE20CE019	ASHNA SHAJIL	A	No	et.	S.	A
19.	ACE20CE021	ASWIN AJITH	Asam	#	sk.	st.	25
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22.	ACE20CE024	HASNA LB	Haco	Hasan	Acres	Men	Jame-
23.	ACE20CE025	IJAS MUHAMMED M	Tjas	Zzas	Iga	Tya	Zgin
24.	ACE20CE026	ЛТНІN Р М	Jithin	Jethin	Jithun	John	rithun
25.	ACE20CE028	MARIYAM S	AA.	120	ST.	100	02-
26.	ACE20CE029	MOHAMMED ABDUL KHADER M	Ab	*#	W	16	#

SL No.	Register Number	Candidate Name	04/01/22	05/01/22	06/01/22	07/01/22	08/01/22
27.	ACE20CE030	MOHAMMED FADHI FAIZEL	Jack	Habhi	Anth	Ladh	fachi
28.	ACE20CE031	MUHAMMEDH YASEEN H K	ylascen	Hasan	yaseen	Hasen	Yasan
29.	ACE20CE032	NANDHA B S	Klau	Ne	No	Pol-	No
30.	ACE20CE033	NANDHU SIVARAM V	Jak .	W	4	4	4
31.	ACE20CE034	NANDINI M G	Nachin	Madhin	Madhi	Madhi	Nordhui
32.	ACE20CE035	NITHYA BIJU	ex	4	M	4	N
33,	ACE20CE036	RISHIKESH J S	2	R	Q	R	R
34.	ACE20CE037	SUBIN S S	Sulin	Subm	Subin	Subin	Selv
35.	ACE20CE038	VINEETH E	Se	Sh	71	71	A
36.	ACE20CE039	XAVIER J	Darrel	Xaon	Dur	Sur	Xerui

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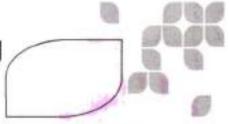




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DEPARTMENT OF CIVIL ENGINEERING Assessment Marks for AutoCAD 3D(CE21002)

Academic Year: 2021-22 Date: 11/01/2022

SI. No.	Register Number	Candidate Name	Marks out of 20
1.	ACE20CE001	AADITHYAN S S	20
2.	ACE20CE002	ABDUL BASITH S	20
3.	ACE20CE003	ABDULLA SR	18
4.	ACE20CE004	ABHUITH ASI	18
5.	ACE20CE005	ABHIJITH PRAKASH	20
6.	ACE20CE006	ABHIRAMI M S	20
7.	ACE20CE007	ABHIYA AS	20
8.	ACE20CE008	ABIN S B	20
9.	ACE20CE009	ABJIN B	18
10.	ACE20CE010	ADARSH M S	20
11.	ACE20CE011	AISWARYA C S	20
12.	ACE20CE012	AITHEEHA SHARMA	20
13.	ACE20CE013	AL AMEEN M	20
14.	ACE20CE014	ALFIYA A	20.
15.	ACE20CE016	ARATHY C S	20 20 × 1
16.	ACE20CE017	ARUN ASHOK	20
17.	ACE20CE018	ASHNA M	20
18.	ACE20CE019	ASHNA SHAJIL	D 20



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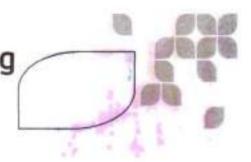
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19.	ACE20CE021	ASWIN AJITH	20
20.	ACE20CE022	BIBIN BUU	18
21.	ACE20CE023	DARSHAN A S	18
22.	ACE20CE024	HASNA LB	18
23.	ACE20CE025	IJAS MUHAMMED M	20
24.	ACE20CE026	JITHIN P M	20
25.	ACE20CE028	MARIYAM S	20

SI. No.	Register Number	Candidate Name	Marks out of 20
26.	ACE20CE029	MOHAMMED ABDUL KHADER M	18
27.	ACE20CE030	MOHAMMED FADHI FAIZEL	20
28.	ACE20CE031	MUHAMMED YASEEN H K	20
29.	ACE20CE032 NANDHA B S		20
30.	ACE20CE033	NANDHU SIVARAM V	20
31.	ACE20CE034	NANDINI M G	18
32.	ACE20CE035	NITHYA BIJU	18
33.	ACE20CE036 RISHIKESH J S		18
34.	ACE20CE037	SUBIN S S	20
35.	ACE20CE038	VINEETH E	20
36.	ACE20CE039	XAVIER J	20

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DEPARTMENT OF CIVIL ENGINEERING

Value Added Course Summary with Course Outcome 2021-2022

Course Name : AutoCAD 3D(CE21002)

Course Duration : 34 Hours

Year offered : Second Year CE Students- 2020-2024

Course Instructors : Ms. Anju

Intercads

Course type : Self framed value added course

Course outcome

The course provides a thorough grounding in the fundamentals of 3D and explores the main features of the advanced 3D Modeling workspace in the AutoCAD software.

Assessment Mode : Software
Attendance : 34 Hrs
Number of Participants : 36
Scheme of exam : Software
Date of exam : 08/01/2022

Glimpses



Students' interaction at hands - on session during AutoCAD course

Course Coordinator 4

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DEPARTMENT OF CIVIL ENGINEERING Course Coordinator Report 2021-2022

Course Name

AutoCAD 3D(CE21002)

Course Duration

35 Hours

Year offered

Second Year CE Student

Course Coordinator

Ms.Jisha G S

Assistant Professor/ CE

Course type

Self framed value added course

The Certificate program of 'AutoCAD 3D' was conducted for second year Civil Engineering students. The total period of 35 hrs has been planned and executed as per the course plan.

Assessment Mode

Number of students Enrolled

: 36

Number of students Appeared : 36

Scheme of exam

: Software

Date of exam

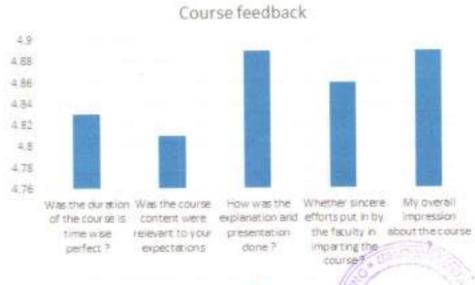
: 08/01/2022

Number of students Passed

: 36

Course Feedback:

The feedback was obtained from the participants after end the course and detailed analysis report are Listed below.



Course Coordinator





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ABHIYA A S

TO CERTIFY COMPLETION OF AUTO CAD 3D TRAINING FROM 04-01-2022 TO 08-01-2022 ORGANISED BY CIVIL ENGINERING DEPARTMENT, ACE COLLEGE OF ENGINEERING, THIRUVALLAM









IS HEREBY GRANTED TO

DARSHAN A S

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ASWIN AJITH

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PRINCIPAL
ACE College of Engineering
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