

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION - 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL
INDRA GANESAN COLLEGE OF ENGINEERING







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Criterion 1 Curricular Aspects	100	
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1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Academic Year	Semester	Name of the Department	Number of Add on/ Certificate Programs Offered	Name of Add on/Certificate Programs Offered	No of Students Enrolled	Page No
		CIVIL & AGRI	1	Vertical Farming	24	7 - 9
		CSE, AIDS & ME- CSE	1	Angular JS	100	10 - 13
		EEE	1	Power grid Protection	32	14 - 16
2022-2023	ODD	ECE	1	Introduction to Robotics	47	17 - 19
		MECH	1	Mechanical, Electrical and Plumbing Methods	45	20 - 22
		IT	1 Speech Recognition Technology in Natural Network		90	23 -25
	S&H	1	Course on Matlab	158	26 - 28	
M		MBA	1	Excel For Business Analytics	65	29 - 31
		CIVIL & AGRI	1	Hydroponics	24	32 -34
		CSE, AIDS & ME- CSE	1	Ruby on Rails	100	35 -39
		EEE	1	Electrical safety & maintenance	32	40 - 42
2022-2023	EVEN	ECE	1	Fiber Optic System Design and Simulation	47	43 - 45
2022-2023	EVEN	MECH	1	Heat ventilation air conditioning	48	46 - 48
		IT	1	Application of Image Processing in Information Technology	90	49 - 51
		S&H	1	Course on Latex	158	52 - 54
		MBA	1	Structural Equation Model (SEM) and CFA - Average Variance Extracted (AVE) using AMOS		55 - 57
Total Certifi Academic ye		s offered in the 23	16	Total No. of Students Enrolled in the Certificate Program	1083	

Academic Year	Semester	Name of the Department	Number of Add on/ Certificate Programs Offered	Name of Add on/Certificate Programs Offered	No of Students Enrolled	Page No
		CIVIL	1	Project Management in Primavera	25	58 - 60
		CSE, & ME-CSE	1	Ethical Hacking	96	61 - 64
		EEE	1	Electrochemical Energy Storage	38	65 - 67
2021-2022	ODD	ECE	1	Lab view	53	68 - 70
2021-2022	ODD	MECH	1	Solid state Joining Technologies	43	71 - 73
		IT	1	Manipulation of Nano Technology in Materials	75	74 - 76
		S&H	1	Basic of electrical, plumbing & two wheeler mechanism	152	77 - 79
N		MBA	1	Preparation of Payroll for an Organisation	26	80- 82
		CIVIL	1	STAAD PRO	25	83 - 85
		CSE, & ME-CSE	1	Django Framework	96	86 - 89
		EEE	1	Automation using PLC and SCADA	38	90 - 92
		ECE	1	Introduction to Machine Learning	52	93 - 95
2021-2022	EVEN	MECH	1	Graphene Battery Technologies	69	96 - 98
		IT	1	Deep Learning in Cyber Security	75	99 - 101
	S&H	1	Digital marketing	152	102 - 104	
		MBA	1	Etiquettes for Managers	58	105 - 107
Total Certific Academic ye		offered in the	16	Total No. of Students Enrolled in the Certificate Program	1073	

Academic Year	Semester	Name of the Department	Number of Add on/ Certificate Programs Offered	Name of Add on/Certificate Programs Offered	No of Students Enrolled	Page No
		CIVIL	1	Advanced Surveying	25	108 - 110
		CSE, & ME-CSE	1	Machine Learning With R	82	111 - 113
		EEE	1	IoT-Raspberry Pi	46	114 - 116
2020-2021	ODD	ECE	1	Arduino Programming	53	117 - 119
2020-2021	ODD	MECH	1	Master CAM	37	120 - 122
		IT	1	F&B Development in Full Stack	63	123 - 125
		S&H	1	Climate change	145	126 - 128
		MBA	1	Advanced Accounting Package with GST	28	129 - 131
		CIVIL	1	Building Information Modeling	25	132 - 134
		CSE, & ME-CSE	1	Big Data Analytics	82	135 - 137
		EEE	1	Solar Photovoltaic System Design	44	138 - 140
		ECE	1	PLC and Industrial Networking	53	141 - 143
2020-2021	EVEN	MECH	1	Application of NX CAD	46	144 - 146
		IT	1	Handling of Tools and Technology for Disaster	63	147 - 149
		S&H	1	Android app development	145	150 - 152
		MBA	1	Performance Management System with Case Studies	26	153 - 155
Total Certific Academic ye		offered in the	16	Total No. of Students Enrolled in the Certificate Program	963	

Academic Year	Semester	Name of the Department	Number of Add on/ Certificate Programs Offered	Name of Add on/Certificate Programs Offered	No of Students Enrolled	Page No
		CIVIL	1	Estimation and Current Practices in Civil Engineering	44	156 - 158
		CSE, & ME-CSE	1	PHP	99	159 - 161
		EEE	1	Automation and Robotics	63	162 - 164
		ECE	1	PIC Microcontroller and ARM Processor	72	165 - 167
2019-2020	ODD	MECH	1	Evaluation of CREO	41	168 - 170
		IT	1	Cloud Service Management Tools	73	171 - 173
		S&H	1	Multimedia design	78	174 - 176
		MBA	1	Special Training on Digital Marketing	42	177 - 179
		CIVIL	1	Safety in Construction	44	180 -182
		CSE, & ME-CSE	1	Agumented Reality and Virtual Reality	99	183- 185
		EEE	1	Smart Grid Technology	63	186 - 188
		ECE	1	Internet of things	72	189- 191
2019-2020	EVEN	MECH	1	External Aerodynamics simulations	65	192 - 194
		IT	1	Smart Computing Technologies in IOT	77	195 - 197
		S&H	1	Recent development in nanotechnology	78	198 - 200
		MBA	1	ERP Basics and Its Applicability in Modern Era	28	201 - 203
Total Certific Academic ye		offered in the	16	Total No. of Students Enrolled in the Certificate Program	1038	

Academic Year	Semester	Name of the Department	Number of Add on/ Certificate Programs Offered	Name of Add on/Certificate Programs Offered	No of Students Enrolled	Page No
		CIVIL	1	Revit Architecture	70	204 - 206
		CSE, & ME-CSE	1	Data Mining	115	207 - 211
		EEE	1	Electrical Machine Design, Winding, Assembling, & Dismantling	92	212 - 214
2018-2019	ODD	ECE	1	PCB Designing	72	215 - 217
		MECH	1	Introduction to CAD/CAM and Practical CNC Machining	106	218 - 220
		IT	1	Future of AI&ML in Information Technology	80	221 - 223
		S&H	1	Computer Fundamentals	123	224 - 226
		MBA	1	Enrichment Programme on Personality for Entrepreneurship	61	227 - 229
		CIVIL	1	Importance of Software in Civil Engineering	70	230 - 232
		CSE, & ME-CSE	1	C#	115	233 - 236
		EEE	1	Develop and Implement of Renewable Energy system using Matlab	92	237 - 239
2010 2010		ECE	1	RASPBERRY PI	72	240 - 242
2018-2019	EVEN	MECH	1	Model Based System Engineering	106	243 - 245
		IT	1	Android App Development	80	246 - 248
		S&H	1	An advance approach to web designing	123	249 - 251
		MBA	1	Managerial Accounting Using Tally	61	252 - 254
Total Certific Academic ye		offered in the	16	Total No. of Students Enrolled in the Certificate Program	1438	



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



Ref: IGCE/AGRI/2022-23/VAC/01

DATE: 22.07.2022

Department of Agricultural Engineering

Academic year 2022-2023 odd semesters

DEPARTMENT CIRCULAR

Department of Agricultural Engineering and IQAC, IGCE in association with **Sri Enterprise Agro Industries Corporation** is going to organize Value Added Course for all second, third year students on "VERTICAL FARMING" from 01.08.2022 to 05.08.2022 .Certificates will be issued to the eligible participants at the end of the course. This training is to be provided in our campus.

Resource person Details:	Mr.R.Sankar, CEO,
	N.Ramachandran, HR,
	Sri Enterprise Agro industries corporation
	Trichy
Venue:	Civil Seminar Hall

Cc:

- Principal Office
- HOD/Agri & Faculty Members
- All II,III B.TECH AgriClasses
- IQAC Coordinator
- Notice Board
- Office File

D:

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Genesan College of Engineering

IG Valley Madura Main Read

Matikandan Trichy-620 017



COLLEGE OF ENGINEERING





Value Added Course on "VERTICAL FARMING" **SYLLABUS**

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1.	Introduction for Agricultural Engineering, farmhouse requirements in India	3	01.08.2022
2.	Farmhouse Requirements In India	3	01.08.2022
3.	Origins of Vertical Farming, Types of Vertical Farms, Specialization of vertical farming house	3	02.08.2022
4.	Implementation vertical farming house	3	02.08.2022
5.	Advantages and Disadvantages of Vertical Farming	3	03.08.2022
6.	What are the Accessories available in market from vertical farm house? Techniques of Vertical Farming	3	03.08.2022
7.	Techniques of Vertical Farming	3	04.08.2022
8.	How to build vertical farming house,	3	04.08.2022
9.	Principles of vertical farming house	3	05.08.2022
10.	Conclusion of vertical farming house	3	05.08.2022
11.	Exam	1	05.08.2022
	Total Hours	30(Excluding test)	-

ordinator

Dr. G. Balakrishnan, M.E., Ph.D., Indra Ganesan College of Engineering IG Valley, Wiedurai Main Road Manikaridam, Trichy-620 012.



	REPORT ON VALUE ADDED COURSE								
Title:	VERTICAL FARMING								
Resource l	Person:		R.Sankar,N.Ran Enterprise Ag			oration	,Trichy		
Date of co	nduct fro	m:	01.08.2022	To:	05.08.202	22	Duration:	30 H	lours
Organized	Departn	nent:	Agricultural En	gineering					
Participant Year: 2, 3		1		No	o. of Stud	lents Registe	ered:	1124	
Venue:	Agri Sen	ninar l	Hall						

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Know real-world importance of software in Agricultural engineering students
- Know how to perform in Agriin industries.
- Study about vertical farming of Agricultural.
- Students are expected to learn and practice the skills they will need in the workplace.
- Develop a foundational understanding Agricultural engineering.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

Hod/Agri

PRINCIPAL

D:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-\$20 012.



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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Department of Computer Science & Engineering

Academic Year 2022-2023 - Odd Semester

10.12.2022

DEPARTMENT CIRCULAR

Department of Computer Science and Engineering and IQAC of IGCE in association with AXIS V Creatives Pvt, Ltd is going to organized Value Added Course for BE-II,III,IV&M.E I,II CSE,B.Tech-AI&DS II year students on "Angular JS "from 19.12.2022 to 24.12.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus

Resource Persons	1. Mr.C.Vivek Project Manager, Axis V Creatives Pvt ,Ltd,Chennai
	2. Mr.B.Rahavan Team leader Axis V Creatives Pvt ,Ltd,Chennai
Venue1	SD LAB
Venue2	NETWORK LAB

HOD/CSE

Ce:

- Principal Office
- IQAC Co-Ordinator
- HoD/CSE
- Class In charges II, III, IV-CSE II AI&DS
- II, III, IV-CSE II AI&DS Year CSE Students
- · Office File
- NoticeBoard

PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D.
Principal
Indra Ganesan College of Engineerin

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC



Department of Computer Science & Engineering

Academic Year 2022-2023 - Odd Semester

Value Added Course on

"Angular JS"

SYLLABUS

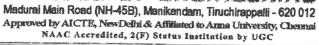
Dr. G. Balakrishaan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction Overview ➤ Introduction to AngularJS ➤ MVC Architecture ➤ Conceptual Overview ➤ Setting up the Environment ➤ First Application® Understanding ng attributes	3	19.12.2022
2	Expressions and Data Biding Number and String Expressions Object Binding and Expressions Working with Arrays Forgiving Behavior Understanding Data binding	3	19.12.2022
3	Working with Directives ➤ Conditional Directives ➤ Styles Directives ➤ Mouse and Keyboard Events Directives	3	20.12.2022
4	Controllers ➤ Understanding Controllers Programming Controllers ➤ & \$scope object Adding Behavior to a Scope Object ➤ Passing Parameters to the Methods Array as members in Controller Scope ➤ Nested Controllers and Scope Inheritance ➤ Multiple Controllers and their scopes	3	20.12.2022
5	Filters Built-In Filters Uppercase and Lowercase Filters	3	21.12.2022



COLLEGE OF ENGINEERING





Department of Computer Science & Engineering

Academic Year 2022-2023 - Odd Semester

***************************************	 Currency and Number Formatting Filters OrderBy Filter 		
	, , , , , , , , , , , , , , , , , , , ,		
	Forms		
	Using Simple Form Working with Select and Options		
	> Input Validations		
6	Using CSS classes	3	21.12.2022
	> Form Events		
	Custom Model update triggers		
	➤ Custom Validations		
	Modules		
	Why Module? Module Loading and		
7	Dependencies		
7	➤ Recommended Setup of Application®	3	22.12.2022
	➤ Creation vs Retrieval		
- Proposition and a second	Services	Stema president and the designation	600 100 ml minutes A middle construction
	Understanding Services Developing Creating		April Age
n	Services		Maddestein
8	➤ Using a Service Injecting Dependencies in a	5	23 12.2022
	Service Injecting Dependencies in a		
PWISSON OWNERS AND			
	Ajax in AngularJS		***
9	\$http Service \$q Service	3	22 12 2022
	Ajax Impl using \$http and \$q	3	23.12.2022
	> Service		4504Adapare -
	Routing		10000000
10	Introduction to SPA Creating HTML	5	24 12 2022
	Templates	3	24.12.2022
	Configuring Route Provider		
11	Exam	1	24.12.2022
	Total Hours	36	-

VAC Coordinator

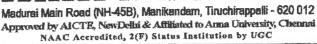
(D:

HoD/CSE

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING





Department of Computer Science & Engineering

Academic Year 2022-2023 - Odd Semester

Title: Angular JS Resource Person: Mr.C.Vivek Project Manager, Axis V Creatives Pvt Ltd, Chennai Date of conduct from: 19.12.2022 To: 24.12.2022 Duration: 36 Hot Organized Department: COMPUTER SCIENCE AND ENGINEERING B.E-II,III & IV- Year /CSE	91.600.000000000000000000000000000000000			Report on	Value	Adde	ed Co	ourse		
Resource Person: Project Manager, Axis V Creatives Pvt Ltd, Chennai Date of conduct from: 19.12.2022 To: 24.12.2022 Duration: 36 Hot Organized Department: COMPUTER SCIENCE AND ENGINEERING B.E-II, III & IV- Year / CSE	Title:	Angu	lar JS	S						
Organized Department : COMPUTER SCIENCE AND ENGINEERING B.E-II,III & IV- Year /CSE	Resource	e Person:	Pro Axi	ject Manager, s V Creatives I	Pvt	second de la constant	Team Axis	ı leader V Creatives I	Pvt	
B.E-II,III & IV- Year /CSE	Date of conduct from		om:	19.12.2022	To:	24.12.2	2.2022 Duration: 361		36 F	lours
	Organized Department:		COMPUTER S	CIENCE.	AND EN	GINEE	RING			
Participant Year: I,II ME,B.Tech-II AI&DS	Participant Year:			•		ı	No. of Students Registered:		100	

Venue: | SD LAB, NETWORKLAB

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Know the fundamentals of Angular JS and its architecture.
- Discuss Module, controllers, Events
- Apply inbuilt and custom pipes
- Develop object-oriented Ruby programs using classes and objects
- Design forms and Modules in React JS
- Explain Services, Animations, Routing.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

HoD/CSE

Principal

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellin & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC



Department of Electrical and Electronics Engineering

Academic Year 2022-2023 -Odd Semester

25.01.2023

DEPARTMENT CIRCULAR

Department of Electrical and Electronics Engineering and IQAC of IGCE in association with Startus Electric, Trichy is going to organize Value Added Course for all second, Third and Final year students on "Power Grid Protection" from 30.01.2023 to 03.02.2023. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail	Mr.M.Elangovan, Trainer, Startus Electric, Trichy.	
Venue	EEE III yr Classroom, IGCE	

Gr. Ma lath

Principal

Cc:

- · Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year EEE Students
- Office File
- · Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING

Machinei Main Road (NH-45B), Manikendam, Tiruchirappelli - 820 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



Value Added Course

"Power Grid Protection"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Fundamentals of Power System	3	30,01.2023
2	Fundamentals of Protective Relaying	3	30.01.2023
3	Current based Relaying Scheme	3	31.01.2023
4	Protection of Transmission Lines using Distance Relays	3	31.01.2023
5	Carrier Aided Schemes for Transmission Lines and Auto-reclosing and Synchronizing	3	01.02.2023
6	Protection of Generators, Transformers, Induction Motors and Bus bars	3	01.02.2023
7	Protection against Transients and Surges along with System Response to Severe Upsets	3	02.02.2023
8	Arc Interruption Theory in Circuit Breaker,	3	02.02.2023
9	Types of Circuit Breakers and their Testing	3	03.02.2023
10	Testing, Commissioning and Maintenance of Relays	3	03.02.2023
11	Exam	1	03.02.2023
The second secon	Total Hours (Excluding Exam)	30	-

John Jerifer VAC Coordinator

Gr. Malathi HOD/EEE

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
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Madural Main Road (NH-458), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemsii NAAC Accredited, 2(F) Status Institution by UGC

		Acceptant of	REPORT ON V	VALUE AI	DED (COURSE			
Title:	"Power	Grid P	rotection"	радите		ormodelemin - vere	ggganan eg		A Graph : Advantage of the second of t
Resource 1	Persons:	Tra	M.Elangovan, iner. tus Electric , ny.		gunnega: Tiggi figha laid bibli nung laingunna mang	адан жана топ топ куптундаган б			gridaline and the state of the
Date of co	nduct fro	m:	30.01.2023	To:	03.02	.2023	Duration:	30 1	Hours
Organized	Departm	ent:	Electrical and l	Electronics	Engine	ering			
Participan	t Year:	2,3,4	-		angganggangga adalih Madalahan 1940	No. of S	Students Register	ed:	32
Venue:	EEE III	vr Clas	sroom			l			
			e Added Course	(VAC): At	the end	of the C	ourse, Students	can al	ble to
DesigLearn	gn the rele the theor	vant proy	ots of power systems for the cities of power systems from the cities of	or the main	elemen	ts of a pov			
enantero de escribidado en escribida		service appear	a ka kada yani ka ka ka madan ngi iya wada Abba wa da da da mangi baka gaga sa magana na ma	Assessmen	t Proce	SS	Management of the second of th		_
elioible	to receiv	e the ce	ring more than 7 rtificate for the V. andance in VAC of	AC course	conduct	ed			
Jehn VAC O	Spordinal	fu	. 6	7. Ma HoD/E	Catt	u'		k	76m Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
Priñcipal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



COLLEGE OF ENGI

Madural Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Apprived by AICTE NewDellit & Affiliated to Amin University, Chernul
NAAC Accordited, 2(F) Status Institution by UGC



Department of Electronics and Communication Engineering

Academic Year 2022-2023 -ODD Semester

25.01.2023

DEPARTMENT CIRCULAR

Department of Electronics and communication Engineering and IQAC of IGCE in association with Hitakey Infosys, is going to organize Value Added Course for all Second, Third and Final year students on "INTRODUCTION TO ROBOTICS" from 30.01.2023 to 03.02.2023. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail	Mrs.Shalom Jerlin, Technical Head, Hitakey Infosys, Trichy
Venue	DSP Lab, IGCE

Cc:

- · Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year ECE Students
- · Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Medurai Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012 Approved by AICTE, NewDelbi & Affiliated to Annu University, Chemnal NAAC Accordited, 2(F) Status Institution by UGC



Value Added Course

"INTRODUCTION TO ROBOTICS"

SYLLABUS

S.NO	TOTIC COVERED	DURATION (in hours)	DATE
1	Basic concepts- Definition and origin of robotics, different types of robotics	3	30.01.2023
2	Asimov's laws of robotics, dynamic stabilization of robots.	3	30.01.2023
3	Power sources, sensors and actuators - Hydraulic, pneumatic and electric drives: Design and control issues	3	31.01.2023
4	Variable speed arrangements – path determination	3	31.01.2023
	Micro machines in robotics, machine vision – ranging laser – acoustic – magnetic, fiber optic and tactile sensors.	3	01.02.2023
1 *******	Manipulators and grippers differential motion	3	01.02.2023
	Construction of manipulators – manipulator dynamics and force control	3	02.02.2023
8	Electronic and pneumatic manipulator control circuits – end effectors	3	02.02.2023
) N	various types of grippers, Design	3	01.02.2023
0 F	Forward Kinematics Forward solution - Denavit Hartenberg procedure.	3	01.02.2023
1	Exam	1	01.02.0000
ROTER	Total Hours (Excluding Exam)	30	01.02.2023

G. Keerthin VAC Coordinator

HOD/ECE

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



VAC Coordinato

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



REPORT ON VALUE ADDED COURSE Title: "INTRODUCTION TO ROBOTICS" Resource Person: Mrs. Shalom Jerlin, Technical head, Hitakey Infosys, Trichy Date of conduct from: 30.01.2023 To: 03.02.2023 Duration: 30 Hours Organized Department: Electronics and Communication Engineering Participant Year: 2,3,4 No. of Students Registered: Venue: DSP Lab Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to Understand basic components of robotics, classification of robots and their applications. Know on types of robot grippers, their usage and design considerations. Understand about various types of sensory devices their working and applications. Apply basic transformations related to the movement of manipulator. Design a robot mechanism to meet kinematics requirements and to write simple programs. Assessment Process • Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted • Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

Dr. G. Balakrishnan, M.E., Ph.D., - Principal Indra Ganesan College of Engineering

HoD/ECE

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



Department of Mechanical Engineering

Academic Year 2022-2023 -Odd Semester

Date: 03.12.2022

DEPARTMENT CIRCULAR

Department of Mechanical Engineering and IQAC of IGCE in Association with UNIQ-MEP, Trichy is going to organize Value added course for all III, IV Year students on "Mechanical electrical and plumbing methods" From 05.12.2022 to 09.12.2022., certificates will be issued to be eligible participants at the end of the course. This training is to be provided in our college campus

	1. Mr.Abhu
	Manager,
	UNIQ-MEP,
Resource Person Details	Trichy
	2.Mr.David Ubaharasamy
	Executive,
	UNIQ-MEP,
	Trichy
Venue	Mechanical Seminar Hall

PRINCIPAL

Cc:

- Principal Table
- IQAC Co-Ordinator
- Class In charges II,III & IV-Year
- II,III & IV-Year MECH Students
- Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING





Value Added Course

"Mechanical Electrical and Plumbing Methods"

SYLLABUS

s.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction of Mechanical tools	3	05.12.2022
2	Mechanical equipments and categories of tools	3	05.12.2022
3	Mechanical Machineries.	3	06.12.2022
4	Heat load calculation	3	06.12.2022
5	Sheet metals & foundry tools	3	07.12.2022
6	MEP software skills	3	07.12.2022
7	Electrical basis and electrical accessories	3	08.12.2022
8	Lighting circuit system design	3	08.12.2022
9	Load calculation and distribution ,cables section & Installation	3	09.12.2022
10	Introduction of plumbing system	3	09.12.2022
11	Exam	1	09.12.2022
	Total Hours(Excluding Exam)	30	

Dr. G. Balakrishnan, M.E., Ph.D., **Principal**

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

VAC Coordinator

Report on Value Added Course Mechanical Electrical and Plumbing Methods Title: Mr.Abhu Mr.David Ubaharasamy Resource Person: Co-ordinator Executive. UNIQ-MEP, **UNIO-MEP** Trichy Trichy 30 Hours Duration: 09.12.2022 To: 05.12.2022 Date of conduct from: MECHANICAL ENGINEERING Organized Department: No. of Students Registered: Participant Year: 2,3,4 Mechanical Seminar Hall Venue:

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

Know real-world examples of on-the-job safety and health issues

Know how to protect themselves and others from accidental deaths and injuries.

Broad understanding of how hazards in the workplace can be controlled.

- Students are expected to learn and practice the skills they will need in the workplace.
- They receive required training on equipment they will use, and work processes they will

Develop a foundational understanding of safety systems.

Assessment Process

• Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted

• Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

Dr. G. Balakrishnan.

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 Q12.

VAC Coordinator

Principal



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC



Department of Information Technology

Academic Year 2022-2023 - ODD Semester

16.12.2022

DEPARTMENT CIRCULAR

Department of Information Technology and IQAC of IGCE in association with Novi Tech R&D, Pvt. Ltd is going to organize Value Added Course for all Second, Third and Final year students on "Speech Recognition Technology in Natural Network" from 19.12.2022 to 23.12.2022 Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1.Mr. A. R. Sooriyaoli, Managing Director,
	Novi Tech R&D Pvt.Ltd
Resource Person Detail	
	2.Mr.R.Rajesh,
	Project Manager
	Novi Tech R&D Pvt.Ltd
Venue	IT Seminar Hall, IGCE

HOD/IT

Cc:

- Principal office
- IOAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year IT Students
- · Office File
- Notice Board

PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



Value Added Course

"Speech Recognition Technology in Natural Network"

SYLLABUS

s.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Speech Recognition	3	19.12.2022
2	Language Modeling: Grammar-based	3	19.12.2022
3	Transducers for lexicon and rules, Tokenization	3	20.12.2022
4	Requirements for representation, First- Order Logic, Description Logics	3	20.12.2022
5	Relations between Senses, Thematic Roles	3	21.12.2022
6	Speech Fundamentals: Articulatory Phonetics	3	21.12.2022
7	Production And Classification Of Speech Sounds; Acoustic Phonetics	3	22.12.2022
8	Features, Feature Extraction And Pattern Comparison Techniques	3	22.12.2022
9	Weighted Cepstral Distances And Filtering	3	23.12.2022
10	Hidden Markov Models: Markov Processes	2	23,12,2022
11	Exam	1	23.12.2022
	Total Hours (Excluding Exam)	30	100

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai MAAC Accredited, 2(F) Status Institution by UGC



Dr. G. Balakrishnan, M.E. Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

REPORT ON VALUE ADDED COURSE

"Speech Recognition Technology in Natural Network" Title: Mr.R.Rajesh, Mr. A. Sooriyaoli, Resource Person: Project Manager, **Managing Director** Novi Tech R&D Novi Tech R&D Pvt.Ltd Pvt.Ltd 30 Hours Duration: 23.12.2022 To: 19 12.2022 Date of conduct from: **Information Technology** Organized Department: No. of Students Registered: 2.3.4 Participant Year: IT Seminar Hall Venue: Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to

- By variety of ways to represent human languages as computational systems. Representations to write programs that do useful things with text and speech data, like translation, summarization, extracting information.
- Build by software engineering perspective, there will be an emphasis on rapid prototyping, a useful skill in many other areas of Computer Science.
- Prerequisite: Strong programming abilities in Python and a knowledge of data structures and algorithms.
- All reports will be documented and deliberated to determine if there should be any following actions.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% inattendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator



Medural Main Road (NH-45B), Manikandern, Tiruchirappalli - 620 012 Approved by AICTE, NewDethi & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) States tractitudes by UGC

Department of Science and Humanities Academic Year 2022-2023 -Odd Semester

08.12,2022

DEPARTMENT CIRCULAR

Department of Science and Humanities and IQAC of IGCE in association with Azatech Pvt Ltd going to organize Value Added Course for all first year students on "Course on Matlab" from 12.12.2022 to 16.12.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1. Mr.K.Vivek
	Managing Director,
	Azatech Pvt Ltd, Chennai
Resource Person Detail	The state of the s
	2. Mr.N.Sundar
	Team Leader,
	Azatech Pvt Ltd, Chennai

分与 给 HOD/S&H

HOD/S&H

PRINCIPAL

Cc:

- Principal office
- IQAC Co-Ordinator
- HoD/S&H
- Class In charges I-Year
- I-Year S&H Students
- Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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Value Added Course

"Course on Matlab"

SYLLABUS

S.NO	TOTAL COVERED	DURATION (in hours)	DATE
1	Introduction to MATLAB	3	12.12.2022
2	Creating Variables	3	12,12,2022
3	MATLAB Functions	3	13.12.2022
4	Introduction to Arrays	3	13.12.2022
5	Array Functions	3	14.12.2022
6	Graphics with MATLAB	3	14.12.2022
7	Input and Output Statements	3	15.12.2022
8	Conditional Statements	3	15.12.2022
9	Programming with MATLAB	3	16.12.2022
10	Mathematical Computing with MATLAB	3	16.12.2022
11	Exam	1	16.12.2022
	Total Hours (Excluding exam)	30	The state of the s

T. Kalanani

VAC Coordinator

g. Bobala HoD/S&H

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012
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NAAC Accredited, 2(F) Status Institution by UCC



Title:	"Value	Report on Value Added Course lue added course on Matlab"						
Resource	Person:	Mr.K.Vivek Managing Dir Azatech Pvt L		nai	Tea	Sundar m Leader, itech Pvt Ltd,	Chennai	
Date of co	onduct from	: 12.12.2022	To:	16.1	2.2022	Duration:	30 Hours	
Organized	Departmen	: SCIENCE AN	ND HUM	ANIT	TES		00120015	
Participant Year: 1					No. of Students Registered:		158	
enue:	AUDITOR	IUM		- unk	-			
Break a c Case Stu		up into smaller, si Modules)						
			sessment	Proc	286			
Students, attendance Total Sec 100 mark	who are some is eligible ore = (0.5 * Ass)	ecuring more that to receive the certi attendance in VAC	n 60% o	n tot	al score	and secured no conducted 0.5 *Test mark	nore than 75% i	
		40 William (4)			lan		i i	

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



DepartmentofManagementStudies

AcademicYear2022-2023-OddSemester

02.11.2022

Ref:IGCE/MBA/2022-23/VAC/01

DEPARTMENT CIRCULAR

Department of Management Studies and IQAC, IGCE in association with Synergy School of Business Skills organizing Value Added Course for all First and Final year students on ``ExcelForBusinessAnalytics'' from 14.11.2022 to 18.11.2022. Certificates will a student son ``ExcelForBusinessAnalytics'' from 14.11.2022 to 18.11.2022. Certificates will be a student son ``ExcelForBusinessAnalytics'' from 14.11.2022 to 18.11.2022. Certificates will be a student son ``ExcelForBusinessAnalytics'' from 14.11.2022 to 18.11.2022. Certificates will be a student son ``ExcelForBusinessAnalytics'' from 14.11.2022 to 18.11.2022. Certificates will be a student son ``ExcelForBusinessAnalytics'' from 14.11.2022 to 18.11.2022. Certificates will be a student son ``ExcelForBusinessAnalytics'' from 14.11.2022 to 18.11.2022. Certificates will be a student son ``ExcelForBusinessAnalytics'' from 14.11.2022 to 18.11.2022. Certificates will be a student son ``ExcelForBusinessAnalytics'' from 14.11.2022 to 18.11.2022 to 18.11.2022. Certificates will be a student son ``ExcelForBusinessAnalytics'' from 14.11.2022 to 18.11.2022 tobe issued to the eligible participants at the end of the Course. This training is to be providedin our campus.

InterestedstudentscanregistertheirnameswiththeVACCo-ordinatorMs.Minipriya N For this program on or before 10th November 2022.

ResourcePerson:	Mr.KiranGowda ProductSpecialist-HumanResource Management. SynergySchoolofBusinessSkills Trichy.
Venue:	MBASeminarHall

Cc:

PrincipalTable

IQACCo-Ordinator

HoD/MBA

ClassIncharges—I,II-Year

I,II-YearMBAStudents

OfficeFile

NoticeBoard

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.





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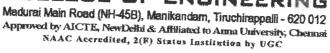
ValueAddedCourseon"ExcelForBusinessAnalytics"SYL LABUS

S.NO	TOPICCOVERED	DURATION (in hours)	DATE
1	ManageWorkbookOptionsandSettings	1	14/11/2022
2	ApplyCustomDataFormatsandLayouts	1	14/11/2022
3	CreateTables	1	
4	PerformOperationswithFormulasand Functions	3	15/11/2022 15/11/2022
5	CreateChartsandObjects	3	16/11/2022
6	ManageWorkbookOptionsandSettings	1	
7	ApplyCustomDataFormatsandLayouts	2	16/11/2022
8	CreateAdvancedFormulas		16/11/2022
9	CreateAdvancedFormulas-Practical	3	17/11/2022
10	Create Advanced Charter IT 11	3	17/11/2022
11	CreateAdvancedChartsandTables	3	18/11/2022
12	CreateAdvancedChartsandTables-Practical	3	18/11/2022
14	Exam	1	18/11/2023
	TotalHours	30	-

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.







Title:	Frank	- D	toport on	Valu	e Added C	ourse		
riue;	Excell	orBusine	essAnalytics					
Resource		Produ Schoo Trichy	of Business S	ımanReso kills	urceManagemen	at. Synergy		
Dateofco	nductfron	n: 1	14.11.2022	To:	18.11.2022	Duration:	30 Hours	
Organize	dDepartm	ent: 1	MANAGEMI	ENTSTI	DIEC			
				DIVIDIO	DILB			
Participar	it Year:	1&2Ye	arMBA		No.ofSt	udentsRegistere	ed: 10.	
Venue:	MBASe	minarH:	all			3******		
Outcom	eofValu	hobb A a	Commodiac	N. A 44T	7 0.7			
• An	notateEx	celRagics	Course(VAC):Atthee	ndoftheCourse	e,Studentscan	able to	
			orksheets					
• Ca	lculateYo	urDataan	dFormatyourW	orkhook				
 Ad 	dChartsar	ndGraphi	cs.	OLKDOOK				
• Wo	rkwithMa	acrosand	Functions.					
			Ass	sessment	Process			
				- COUNTY CALL	1 100022			

marks)

Dr. G. Balakrishnan, M.E., Ph.D.,

• TotalScore=(0.5*AttendanceinVACoutof100percentage+0.5*Test markinVACoutof100

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



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Department of AGRICULTURAL ENGINEERING

Academic Year 2022-2023 - Even Semester

26.07.23

DEPARTMENT CIRCULAR

Department of Agricultural Engineering and IQAC of IGCE in association with "SRI ENTERPRISE AGRO INDUSTRIES CORPARATION" is going to organize Value Added Course for all Second, Third and Final year students on "Hydroponics" from 01.08.23 to 05.08.23. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail

1. Mr. K. Ramesh Kumar, Director. Agro Sri Enterprise

Industries Corporation, Guntur

2. Mr.A.Jayaraj, Technical Assistant,

Industries Enterprise Agro Corporation, Guntur

Venue

CAD LAB. 2nd Floor, IGCE

Cc:

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

• HoD/Agri

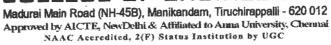
• Principal Table

IQAC Co-Ordinator

- Class In charges II, & III -Year
- II, III & IV-Year Civil and Agri Students
- Office File
- Notice Board



COLLEGE OF ENGINEERING





Value Added Course on "HYDROPHONICS"

SYLLABUS

s.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction of Hydroponics technology	3	01.08.23
2	Scope and Importance of Hydroponics technology	3	01.08.23
3	Plant Growth Requirements, Importance of light, temperature and humidity	3	01.08.23
4	Nutrient requirements, deficiencies and toxicities	3	02.08.23
5	Plant structure, photosynthesis, characteristics of different root-zone factors and their application	3	02.08.23
6	Hydroponic Growing Systems - basic concepts and designs, Nutrient film technique (NFT)	3	02.08.23
7	Deep water culture, Ebb & Flow	3	03.08.23
8	Other Techniques - wick systems, drip and aeroponics	3	03.08.23
9	Familiarize with the electrical equipment available in a hydroponic unit	3	04.08.23
10	Identify the crops and their suitability to hydroponics system (Exam)	3	05.08.23
	Total Hours	30	-

Dr. G Balakrishnan, M.E., Ph.D., principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING





		RE	PORT ON VA	ALU	E ADI	DED C	OURSE			
Title:		"Hydroponics"								
Resource	Person:	Direct Sri Et	nterprise Agro aration,		ıstries		1	al Assistant, erprise Agro	Indust	tries
Date of conduct from:			01.08.2023		To:	05.08	.2023	Duration:	30 H	Iours
Organize	d Departm	ent:	AGRICULTU	RAI	ENGI	NEER	ING		1	
Participa	Participant Year: 2, 3		Semester:	EVEN		No. of Students Registered: 24			24	
Venue:	CAD LA	B, 2 nd]	Floor, IGCE							
Outcom	e of Valu	e Adde	d Course (VA	C):	At the	end of	the Course	, Students ca	an ab	le to
 To make familiar with calculation of quantities for different items of works & provide knowledge about estimation of buildings through estimator-2.0 software 					8					
			ion of this cou							
			nation of build			_			_	
			and apply vari	ious :	method	is of qu	iantity estim	ation measur	emen	t in
			i projects. bricks calculat	tions	and co	et for	lifferent met	toriale		
	- ESUI	naung,			ent Pro		miterent illai	CHAIS.		

Students, who are securing more than 70% on total score and secured more than 75%

in attendance is eligible to receive the certificate for the VAC course conducted Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-629 012.

VAC Coordinator

VAC out of 100 marks)

HOD/AGRI

Principal



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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Department of Computer Science & Engineering

Academic Year 2022-2023 - Even Semester

09.06.2023

DEPARTMENT CIRCULAR

Department of Computer Science and Engineering and IQAC of IGCE in association with **Lift Technologies** is going to organized Value Added Course for BE- II,III,IV&M.E I,II CSE,B.Tech-AI&DS II year students on "**Ruby on Rails** "from 12.06.2023 to 17.06.2023. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus

Resource Persons	1. Mr.V. Tamilventhan Director, Lift Technologies Trichy
	2. Mr.G.Ganesh Project leader Lift Technologies Trichy
Venue1	SD LAB
Venue2	NETWORK LAB

HOD/CSE

-10.01

Cc:

• Principal Office

- IQAC Co-Ordinator
- HoD/CSE
- Class In charges II, III,IV-CSE II AI&DS
- II, III, IV-CSE II AI&DS Year CSE Students
- Office File
- NoticeBoard

PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandarn, Trichy-520 012



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC

Department of Computer Science & Engineering

Academic Year 2022-2023 - Even Semester

Value Added Course on

"Ruby on Rails"

SYLLABUS

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
prome	Introduction to Rub ➤ Overview ➤ Installation and Setup ➤ Ruby Syntax, Variables, Data Types, and Operators ➤ Control Structures and Loops ➤ Functions and Methods	3	12.06.202
2	Object-Oriented Programming (OOP) with Ruby Classes and Objects Inheritance and Polymorphism Encapsulation and Abstraction Modules and Mixins	3	12.06.2023
3	Web Development with Ruby on Rails ➤ Introduction to Ruby on Rails ➤ Setting up a Rails Application ➤ MVC Architecture ➤ Database Integration using ActiveRecord ➤ Views and Templates using ERB	3	13.06.2023
4	RVM(ruby version manager) > Rvm installation > Rvm commands > Rvm Usage	3	13.06.2023
5	Working in Linux(Ubuntu) Platform > Basic Linux commands > File/Directory Permissions > Changing access rights > Text Editors used for ROR	3	14 06.2023
6	Ruby Operators & Ruby Shell IRB – Ruby Shell	3	14.06.2023



COLLEGE OF ENGINEERING





Department of Computer Science & Engineering

Academic Year 2022-2023 - Even Semester

	 Working with Ruby operators and expressions Numeric Methods Rand and Ranges Strings, Escaping, Interpolation String methods Dates and Times 	į.	r. G. Balakrishnar Princip Ira Ganesan Colleg IG Valley, Madura Manikandam, Tric
7	Ruby Datatypes & Variables > Ruby Datatypes > Numbers, Boolean, Strings, Arrays, Hashes, Symbols. > Types of Variables(Global, Instance, Class, Local, Constant, Pseudo) > Difference between local & instance variables > Parallel Assignment > Variable conditions	3	15.06.2023
8	Ruby methods and modules > Basic ruby methods > Return values from methods, return statements > Class methods > Different ways to call methods > Ruby modules and Mixins > Ruby require and include statement > Diffence between class and module	5	15.06.2023
9	OOP in Ruby > OOP > Class > The initialize method > The accessor & setter method > Access Control > Class Inheritance > Method Overriding > Operator Overloading > Singleton methods > Metaclass	3	16.06.2023
0	Rails Installation and Ruby gems > What is Rails	5	17.06.2023







Department of Computer Science & Engineering

Academic Year 2022-2023 - Even Semester

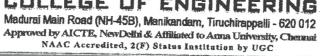
	Total Hours		
11	Exam	1	17.06.2023
	 ➢ Ruby Gems ➢ Working with RubyGems ➢ Gem commands ➢ Framework Technology ➢ MVC ➢ Rails Components ➢ How does Rails works in MVC 		
	 ➢ Full tack Framework ➢ Rails Strength ➢ COC(convention over configuration) ➢ Rails Intallation ➢ Ruby and Rails installation on linux ➢ Ruby Comp 		

VAC Coordinator

IG Valley, Madurai Main Road Manikandam, Trichy-620 012



COLLEGE OF ENGINEERING





Department of Computer Science & Engineering

Academic Year 2022-2023 - Even Semester

Part of the Control o			Report on	Valu	e Ad	ded C	ourse		E- yearqui, mologi,
Title:	Ruby	on R		41. 7		Morro Emple Messelle, es accessore		46464mmmmmm	٠
Resource	Person:	4	V. Tamilventhan ector, Lift Technolo chy	gies	and any	Proje	.Ganesh ct leader Fechnologies 1y		
Date of co	onduct fro	m:	12.06.2023	To:	17.06	.2023	Duration:	36 I	lours
Organize	l Departm	ent:	COMPUTER SC	IENCE.	AND E	NGINEE	RING	<u>t</u>	** PMM: orfensepersons
Participan	t Year:		I,III & IV- Year IE,B.Tech-II AI&		Novembrand de leverence	No. of S	tudents Registe	ered:	100
Venue:	SD LAB	NET	WORKLAB	#4 %-	····· ··· · · · ·		t de grande de la companya del companya del companya de la company		
 Kn De M Cre De 	ow the Ruvelop ob anipulate a ate useful	edge uby's l ject-o strings stand ribute	ded Course (VA) e the main features puilt-in methods for riented Ruby pro s using regular exp l-alone application ed web application s (third-party lib	s of Rub r manipu grams u ressions s in Rub using Ri	ulating a using cl y MI, Ser using t	strings, filasses and vlets and the gem	les, and hashes d objects		
attenuan	ore $= (0.5)$	or ard	rring more than receive the certific ndance in VAC ou	ate for t	he VA(Course c	onducted		
C. Tm.	ks)	-7/	D. C. HoD/CS	dd	· · · · · · · · · · · · · · · · · · ·		er com variant	MS	n

IG Valley, Madurai Main Road Manikandam, Trichy-520 012



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Department of Electrical and Electronics Engineering

Academic Year 2022-2023 - Even Semester

26.07.2023

DEPARTMENT CIRCULAR

Department of Electrical and Electronics Engineering and IQAC of IGCE in association with NoviTech R&D Pvt Ltd is going to organize Value Added Course for all Second, Third and Final year students on "Electrical safety & maintenance" from 01.08.2023 to 05.08.2023. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus

Resource Person Detail	1. Mr.S.Sathiyan, Trainer,	
	NoviTech R&D Pvt Ltd Coimbatore, Tamilnadu.	verse and services and
Venue	EEE III yr Classroom, IGCE	100

Gr. Ma lathi

HOD/EEE



Cc:

- · Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II. III & IV-Year EEE Students
- · Office File
- Notice Board

D:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING

Medurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDellist & Affiliated to Anna University, Chemnal NAAC Accredited, 2(E) Status Institution by UGC



Value Added Course

"Electrical safety & maintenance"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Elementary Electrical - Basics of Electricity	3	01.08.2023
2	Exposure to General Tools and Tackle Testing of wiring Installation	3	01.08.2023
3	Electrical Power System :Overview Quality of Electrical supply Power Distribution System — Basics Distribution Line equipment	3	02.08.2023
4	Transformers Major Substation Equipment Operation & Maintenance Practices	3	02.08.2023
5	Earthing	3	03.08.2023
6	Electrical System Protection	3	03.08.2023
7	Important Electricity Rules Related to Safety	3	04.08.2023
8	Electrical Safety	3	04.08.2023
9	Accident Prevention & Protection, First Aid	3	05.08.2023
10	Disaster Management	3	05.08.2023
11	Exam	1	05.08.2023
-1700-0-1	Total Hours(Excluding Exam)	30	main abantitrian. Microscommiphimodesis ir azavantdiyasis Akrii Ap

VAC Coordinator

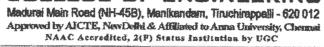
Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Gr. Ma lathi HOD/EEE







Tronsports dans de la constante de la constant			REPORT O	N VALU	E A	DDED COU	RSE		
Title:		pa di ma	" Ele	ectrical s	afet	y & mainte	enance "	gan ngundung maganahar da	riginousiru
Resource	Person:	No Coi	S.Sathiyan, Train viTech R&D Pv mbatore, nilnadu.	-					
Date of co	nduct fr	om:	01.08.2023	To:	05	.08.2023	Duration:	30	Hours
Organized	Departr	nent:	Electrical and	Electroni	cs E	ngineering			BARTON 28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Participan	t Year:	2,3,4	· duboromonion	TOTAL THE CHARGE SE		No. of Stud	lents Registered	1:	32
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Appro	clate the	. nccu i	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	sessment		*	ite isolation	agan a y an.	appropries software and a stock
attendan	ce is eli	gible to	curing more that preceive the certification and the certification of the	n 70% of ficate for t	on to	otal score a	conducted		
VAC Co	~~/ ordinate	or	Gi	Ma HoD/EE	. <i>L</i>	athi'		Od Prin	T L

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



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Department of Electronics and Communication Engineering Academic Year 2022-2023 –EVEN Semester

26.07.2023

DEPARTMENT CIRCULAR

Department of Electronics and communication Engineering and IQAC of IGCE in association with Hitakey Infosys, is going to organize Value Added Course for all Second, Third and Final year students on "FIBER OPTIC SYSTEM DESIGN AND SIMULATION" from 31.07.2023 to 04.08.2023. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person	Mrs.Shalom Jerlin, Technical Head, Hitakey Infosys, Trichy
Venue	DSP Lab, ECE

HOD/ECE

PRINCIPAL

Cc:

- · Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year ECE Students
- Office File
- · Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Madurai Main Road (NH-45B), Manikandam, Tiruchirappaili - 620 012
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NAAC Accredited, 2(F) Status Institution by UGC



Value Added Course

"FIBER OPTIC SYSTEM DESIGN & SIMULATION"

SYLLABUS

S.NO	TOTIC COVERED	DURATION (in hours)	DATE
1	OPTICAL TRANSMITTERS-Light Emitting Diodes - Laser diodes	3	31.07.2023
2	Modulators – Optical Layouts for the simulation	3	31.07.2023
3	Component libraries and procedures for simulation in Optsim and/or Optisystem software	3	01.08.2023
4	FIBER OPTIC LINK ANALYSIS- Fiber – Structure of the fiber - Types –Single Mode fiber – Multimode fiber	3	01.08.2023
5	absorption, scattering, bending losses —Dispersion	3	02.08.2023
6	Intra and inter modal dispersion – dispersion compensation methods –optical amplifiers	3	02.08.2023
7	OPTICAL RECEIVERS-Photo multiplier tubes - photo diodes -	3	03.08.2023
3	Responsivity, Quantum Efficiency, Sensitivity, photo current and transfercharacteristics of photo diodes	3	03.08.2023
	PIN diode and Avalanche diode - basic optical receiver configuration	3	04.08.2023
	Preamplifiers - BER – WDM concepts. Outline of Li-Fi and Communication through LED	3	04.08.2023
	Exam		Al to representation to
	Total Hours (Excluding Exam)	30	05.08.2023

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



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REPORT ON VALUE ADDED COURSE

Title:

"FIBER OPTIC SYSTEM DESIGN & SIMULATION"

Resource Person:

Mrs. Shalom Jerlin.

Technical head, Hitakey Infosys,

Trichy

Date of conduct from:

31.07.2023

To: 04.08.2023

Duration:

30 Hours

Organized Department: Electronics and Communication Engineering

Participant Year: | 2,3,4

No. of Students Registered:

Venue:

DSP Lab

Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to

- Know about the Optical transmitters.
- Know the simulation in Optsim and/or Optisystem software
- Explain the Fiber optic link analysis
- Know the Intra and inter modal dispersion & Dispersion compensation methods
- Explain the Optical receivers
- Develop Outline of Li-Fi and Communication through LED

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

HoD/ECE

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



COLLEGE OF ENGINEERING





Department of Mechanical Engineering

Academic Year 2022-2023 - Even Semester

Date: 18.05.2023

DEPARTMENT CIRCULAR

Department of Mechanical Engineering and IQAC of IGCE in Association with UNIO-MEP, Trichy is going to organize Value added course for all III, IV Year students on "Heat ventilation Air conditioning Technology" from 22.05.2023 to 27.05.2023, certificates will be issued to be eligible participants at the end of the course. This training is to be provided in our campus.

	1. Mr.K.Deepak
	Executive
	UNIQ-MEP
Resource Person Details	Trichy
	2. Mr.Dhineshwaran G
	Executive
	UNIQ-MEP
	Trichy
Venue	Mechanical Seminar Hall-IGCE

Cc:

- Principal Office
- IQAC Co-Ordinator
- Class In charges -II, III & IV-Year
- II,III & IV-Year MECH Students
- Office File
- · Notice Board

Dr. G. Balakrishnan, M.E., Ph.D., Principal



COLLEGE OF ENGINEERING





Value Added Course

"Heat Ventilation Air conditioning Technology"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction of HVAC	3	22.05.2023
2	Air conditioning equipments and categories of air conditioning.	3	22.05.2023
3	psychometric	3	23.05.2023
4	Heat load calculation	3	23.05.2023
5	Fresh Air system	3	24.05.2023
6	HVAC software skills	3	24.05.2023
7	Electrical basis and electrical accessories	3	25.05.2023
8	Lighting circuit system design	3	25.05.2023
9	Load calculation and distribution ,cables section & Installation	3	26.05.2023
10	Application of HVAC	3	26.05.2023
11	Exam	1	27.05.2023
	Total Hours(Excluding Exam)	30	

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Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

VAC Coordinator



OLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Ama University, Chennal NAAC Accredited, 2(F) Status Institution by UGC



,			Report on '	Value	Adde	ed Cor	urse		
Title:	Heat v	entila	tion Air conditi	oning T	echnol	ogy	g 3		
Resource	Person:	Exe	Deepak cutive IQ-MEP			Mr.Dh Execu UNIQ Trichy	-MEP		
Date of c	onduct fro	m:	22.05.2023	To:	27.05.2		Duration:	30 H	lours
Organize	d Departr	nent:	MECHANICA	AL ENC	INEEF	RING		1	40
Participa	nt Year:	2,3,			No. of Students Registered: 4		48		
Venue:	Third I	loor	eminar Hall Department						

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

Knowledge about HVAC system

Application of HVAC clearly students known

• Various gases usage in HVAC system Explained.

• Load circuits and pipeline circuits are explained clearly

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Assessment Process

• Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted

• Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

HOD/MECH

Principal



Department of Information Technology Academic Year 2022-2023 –EVEN Semester

25.03.2023

DEPARTMENT CIRCULAR

Department of Information Technology and IQAC of IGCE in association with Uniq Technologies is going to organize Value Added Course for all Second, Third and Final year students on "Application of Image Processing in Information Technology" from 28.03.2023 to 01.04.2023 Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1.Mr. Azmann Managing Director,
Resource Person Detail	Uniq Technologies
	2.Mr.Madhesh
	Project Manager
	Uniq Technologies
Venue	IT Seminar Hall, IGCE

HOD/IT

PRINCIPAL

Cc:

- · Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year IT Students
- · Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Value Added Course

"Application of Image Processing in Information Technology"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Image Processing	3	28.03.2023
2	Frequency domain transformation techniques and their properties.	3	28.03.2023
3	Gray-level mapping, non-liner graylevel mapping	3	29.03.2023
4	Color image processing	3	29.03.2023
5	The Unsupervised Clustering Algorithm	3	30.03.2023
6	Neural Networks , Deep Learning- Overview	3	30.03.2023
7	Edge detection and image sharpening	3	31.03.2023
8	image sensor and digital image formation	3	31.03.2023
9	Need for data compression, Huffman, Run Length Encoding		01.04.2023
10	Recognition based on matching	2	01.04.2023
11	Exam	1	01.04.2023
	Total Hours (Excluding Exam)	30	

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal







REPORT ON VALUE ADDED COURSE

Title:

""Application of Image Processing in Information Technology"

Resource Person:

Mr. Azmann

Managing Director,

UnigTechnologies

Mr.Madhesh

Project Manager

UniqTechnologies

Date of conduct from:

28 03.2023

To:

01.04.2023

Duration:

30 Hours

Organized Department:

Information Technology

Participant Year:

2,3,4

No. of Students Registered:

Venue:

IT Seminar Hall

Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to

- Build by familiar with digital image fundamentals 0
- Images that are seen and acquired in everyday life have a number of very interesting properties.
- Properties are a key to developing efficient and accurate algorithms for a variety of applications such as image noise removal, blur removal, image separation.
- Explore some key theory including the proofs of some truly beautiful theorems, algorithms, as well as many applications.
- Expose students to a broad range of modern, state-of-the-art techniques in image processing.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% inattendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

Dr. G. Balakrishnan, M.E., Ph.D.,

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Department of Science and Humanities

Academic Year 2022-2023 - Even Semester

10.05,2023

DEPARTMENT CIRCULAR

Department of Science and Humanities and IQAC of IGCE in Association with Mecello Tech is going to organize Value Added Course for all first year students on "Course on LATEX" From 15.05.2023 to 19.05.2023. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	 Mr. M. Senthilkumar Managing Director, Mecello, Tech, Chennai
Resource Person Detail	2. Mr. S. Aravindh Team Leader, Mecello, Tech, Chennai
Venue	Auditorium, IGCE

N. d.

PRINCIPAL

Ce:

- · Principal office
- IQAC Co-Ordinator
- HoD/S&H
- Class In charges I-Year
- I-Year S&HStudents
- Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



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Value Added Course

Course on LATEX"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Installation of Kile and MikeTeX.	3	15.05.2023
2	Latex programming and commands,sample packages	3	15.05.2023
3	Fonts, symbols, indenting, paragraphs, line spacing, word spacing, titles and subtitles	3	16.05.2023
4	Document class,page style,parts of the documents,table of contents	3	16.05,2023
5	Command names and arguments, environments, declarations	3	17.05.2023
6	Theorem like declarations, comments within text	3	17.05.2023
7	Command names and arguments, environments, declarations	3	18.05.2023
8	Mathematical environments, math mode mathematical symbols	3	18.05.2023
	Graphic package, multivalued functions, drawing matrices	3	19.05.2023
10	Tables, tables with captions	3	19.05.2023
11	Exam	1	19.05.2023
400	Total Hours (Excluding exam)	30	-

T. Kalaivan

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





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			Report	on Valı	ie Add	ed Cours	ie		
Title:	"Value	ue added course on LATEX"							
Resource Person: Ma		fr. M. Senthil kumar anaging director, ecelloTech, Chennai			Mr.S.Aravindh Team Leader Mecello Tech, Chennai				
Date of conduct from :			15.05.2023	To:	19.05	5.2023	Duration	30	Hours
Organized	Departm	ent	SCIENCE ANI	D HUM	ANITI	ŒS			
	Participant Year: 1			No. of Students Registered:		158			
Carried Co.	AUDITO			***************************************					
Outcom	e of Val	ue A	dded Course (VA	AC): At	the en	d of the (Course, Stud	ents	can able to
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		-	Ass	essment	Proce	SS		1	
attendance	e is eligit re = (0.5)	ole to	uring more than receive the certife endance in VAC	icate for	r the V	AC cours	e conducted		
VAC Co			-4	A D	s&A	21	- Parketine y	P	oshi) rincipal

Principal
Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Apparoved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



Department of Management Studies

Academic Year 2022-2023 - Even Semester

22.03.2023

Ref: IGCE/MBA/2022-23/VAC/02

DEPARTMENT CIRCULAR

Department of Management Studies and IQAC IGCE in association with Bizme Analytix, Trichy organizing Value Added Course for all First year students on "Structural Equation Model (SEM) and CFA - Average Variance Extracted (AVE) Using AMOS" from 03.04.2023 to 07.04.2023. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Interested students can register their names with the VAC Co-ordinator Ms.Minipriya N For this program on or before 28th March 2023.

Resource Person:	Mr. Mohamed Shuaib Siddiqui - Head
	Strategy & Customer Outreach, Bizme
	Aalytix, Trichy
Venue:	MBA Seminar Hall
	K

Ce:

- Principal Office
- IQAC Co-Ordinator
- HoD/MBA
- I-Year MBA Students
- Notice Board

PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



ndra Ganes COLLEGE OF ENGINEERING





Value Added Course on "Structural Equation Model (SEM) and CFA - Average

VarianceExtracted (AVE) Using AMOS"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Structural Equation Model (SEM) - Introduction	1	03/04/2023
2	SEM - Create Model	1	03/04/2023
3	SEM - Model Fit: GFI, AGFI, CFI, NFI, RMSEA	2	03/04/2023
4	Practical	2	03/04/2023
5	SEM - Mediation and Moderation Analysis	3	04/04/2023
6	practical	3	04/04/2023
7	Confirmatory Factor Analysis (CFA) - Introduction	1	05/04/2023
8	CFA - Average Variance Extracted (AVE)	2	05/04/2023
9	Practical	3	05/04/2023
10	CFA - Construct Reliability (CR)	3	06/04/2023
11	Practical	3	06/04/2023
12	CFA - Discriminant Validity (DV)	3	07/04/2023
13	Practical	3	07/04/2023
14	Assessment	1	07/04/2023
· nas · whitereastly pa	Total Hours	30	The state of the s

Dr. G. Balakrishnan, M.E., Ph.D., Principal







246			Report on	Valu	e Added C	Ourse	international appearability in the second day.		
Title:	"Struct Using A	ctural Equation Model (SEM) and CFA - Average Variance Extracted (AVE)							
Resource	Person:	Hea	Mohamed Shuaib id Strategy & Custone Aalytix,			er (1904) en 1913 - 1914 (1914) (1914) (1914) (1914) (1914) (1914) (1914) (1914) (1914) (1914) (1914) (1914)			
Date of co	nduct from	n:	03.04.2023	To:	07.04.2023	Duration:	30 Hours		
Organized	Departme	ent :	MANAGEMENT	STUD	IES	Armaramble in the same was			
Participant	t Year:	Ye	ar MBA	And the state of t	No. of S	tudents Registe	ered : 23		
Venue:	MBA Sen	ainar	Hall	7 9994-1-1-4 (1986-1984-1984-1994-1994-1994-1994-1994-1994	and the second s	to: Lorenzogoatelengoaldama			
 Exp 	olain Bene	efits o	ded Course (VA ariables at any pos of the Tool AMOS ed variables cont	int in tir	ne.				
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Maring and the Companies of States		**********	Asse	ssment	Process	ner en	этэйрэг гранийн байгаа		
	ov 10 Ungit	10 00	ring more than	70% o	n total seems an	d secured mo	re than 75% in		

100 marks)

• Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of

Dr. G. Balakrishnan, M.E., Ph.D.

Principal



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellii & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



Ref: IGCE/CIVIL/2021-22/VAC/01

DATE: 04.08.2020

Department Of Civil Engineering Academic Year 2021-2022 Odd Semester

DEPARTMENT CIRCULAR

Department of Civil Engineering and IQAC of IGCE in association with Kalam Constructions is going to organize Value Added Course for all second, third, and final year students on "Project Management in PRIMAVERA" from 10.08.2021to 14.08.2021.certificates will be issued to the eligible participants at the end of the course. This training is to be provided in our campus.

6

Cc:

- Principal Table
- IQAC Co-Ordinator
- HoD/ civil
- Class In charges II, III & IV-Year
- II, III & IV-Year CIVIL Students
- Office File
- NoticeBoard

Dr. G. Balakrishnan, M.E., Ph.D.,



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

Value Added Course on "Project Management in PRIMAVERA"

SYLLABUS

S.NO	TOPIC COVERED	DURATI ON (in hours)	DATE
1	Introduction of primavera	3	10.08.2021
2	calendar creation and assign calendar using for EPS	3	10.08.2021
3	currency creation and assign	3	11.08.2021
4	EPS creation and assign the project OBS creation	3	11.08.2021
5	Assign WBS Activity creation Resource, Resource code, Role creation and to assign	3	12.08.2021
6	Activities Relationship creation: Predecessor and Successor to assign Activities	3	12.08.2021
7	Thresholds ,Expense Creation and Assign Risk creation and Assign	3	13.08.2021
8	Issues creation and Assign Maintain Baseline and Assign Baseline	3	13.08.2021
9	Leveling of resources & Scheduling of project S-	3	14.08.2021
10	Curve chart and Gent Chart checking Result And Report verification	3	14.08.2021
	EXAM	1	14.08.2021
	Total Hours	30 (Excluding Test)	-

K. Gaylath VAC Coordinator (D).

Dr. G. Balakrishnan, M.E., Ph.D.,

Princips!

Indra Ganesan Conco or Engineering
IG Valley, Maddra Main Road
Manikandam, Trichy-620 012.

HOD/CIVIL





REPORT ON VALUE ADDED COURSE

Title:

PROJECT MANAGEMENT IN PRIMAVERA

Resource Person:

Mr.M.Bhuvana Selavam , Technical Head

N.Ramesh.Trainer Kalam constructions

Date of conduct from:

10.08.2021

To:

14.08.2021

Duration:

30 Hours

Organized Department:

Civil Engineering

Participant Year:

2, 3, 4

No. of Students Registered:

17

Venue:

Civil Seminar Hall

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Know real-world importance of software in civil engineering
- Know how to perform in civil software in industries.
- Study about importance of civil engineering software's.
- Students are expected to learn and practice the skills they will need in the workplace.
- Develop a foundational understanding of civil software's.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC coordinator

K. Gayathi

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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Department of Computer Science & Engineering

Academic Year 2021-2022 - Odd Semester

06.12.2021

DEPARTMENT CIRCULAR

Department of Computer Science and Engineering and IQAC of IGCE in association with Blue Fire Xperts Infotech OPC Pvt Ltd is going to organized Value Added Course for BE-II,III,IV and M.E I,II year students on "Ethical Hacking "from 13.12.2021 to 18.012.2021. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus

Resource Person	1. Mr. A.R.Sooriyaoli, Managing Director, Blue Fire Xperts Infotech OPC Pvt Ltd, Trichv,
	2. Mr. V.Roshan Trainer Blue Fire Xperts Infotech OPC Pvt Ltd, Trichy
Venue 1	SD LAB
Venue 2	NETWORK LAB

D- Rudd HOD/CSE

PRINCIPAL

Cc:

- Principal Office
- IQAC Co-Ordinator
- HoD/CSE,
- Class In charges IV-Year ME II Year
- * IV-Year CSE, ME II Students
- Office File
- · Notice Board

100.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC

Department of Computer Science & Engineering

Academic Year 2021-2022 - Odd Semester

Value Added Course on

"Ethical Hacking"

SYLLABUS & SCHEDULE

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Ethical Hacking Overviews ➤ Hacking concept, what is hacking? ➤ Terms we use in hacking. ➤ Need of Ethical hacking. ➤ Cases of Hacking in India& across the globe	3	13.12.202
2	Principles of Ethical hacking ➤ Basic Principle ➤ Commandments of Ethical Hacking	3	13.12.2021
3	Hacking Methodologies ➤ Types of Hacking. ➤ Building the foundation for Ethical hacking ➤ Hacking Phases	3	14.12.2021
4	Role of Ethical Hacker Types of Hackers Roles and Responsibilitie	3	14.12.2021
5	Scope & limitations of hacking Advantages & scope for hacking Drawbacks& Limitation of hacking	3	15.12.2021
6	Cyber Threats and Attacks Vectors Threats & categories Attack Vectors and Exploitation	3	15.12.2021
7	Hacking tools and techniques ➤ Common Hacking Tools ➤ Hacking Techniques & Approaches	3	16.12.2021
8	Policies and Controls Information Security policies Risk Management& Incident Management Information Security controls Data Management	5	16.12.2021
9	Overview of PT / VA.	3	17.12.2021

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING
Madural Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012
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Department of Computer Science & Engineering

Academic Year 2021-2022 - Odd Semester

	 Concept of Penetration testing Types of Penetration testing Phases of Penetration testing Vulnerability Assessment by Penetration testing Access Control 		The first in the control of
10	Footprinting through Search Engines, Web Services ➤ Information Gathering Using Google Advanced Search and Image Search ➤ VoIP and VPN Footprinting through Google Hacking Database	5	18.12.2021
11	Exam	1	18.12.2021
	Total Hours	36	

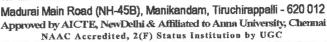
HoD/CSE

Indra Ganesan College of Engineering

Manikandam, Trichy-829.012



COLLEGE OF ENGINEERING





Department of Computer Science & Engineering

Academic Year 2021-2022 - Odd Semester

			Report on V	alue	Add	ed Cou	arse		
Title:	Ethica	al Ha	cking						
Resource	Person:	Mar Blue	A.R.Sooriyaoli, naging Director, e Fire Xperts Infote , Trichv,	ch OP	C Pvt	Mr. V.l Traine Blue Fi Ltd, Tr	r re Xperts Inf	fotech	OPC Pvt
Date of conduct from: 13.1		13.12.2021	To:	18.12.	2021	Duration:	36 H	lours	
Organized	l Departn	nent:	COMPUTER SCII	ENCE A	AND EN	NGINEER	ING		
Participan	rticipant Year: B.E-II,III & IV- Year / CSE I,II ME No. of Students Register		ered:	96					
Venue:	SD LAF	B,NET	WORKLAB						

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Gain knowledge about Ethical hacking and penetration testing. Know the Ruby's built-in methods for manipulating strings, files, and hashes
- Develop object-oriented Ruby programs using classes and objects
- Manipulate strings using regular expressions
- Create useful stand-alone applications in Ruby
- Develop distributed web application using RMI, Servlets and JSP.
- Install Ruby gems (third-party libraries) using the gem utility

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

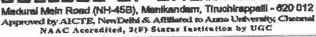
VAC Coordinato

HoD/CSE

Principa

Dr. G. Balakrishnan, M.E., Ph.D.,







Department of Electrical and Electronics Engineering

Academic Year 2021-2022 -Odd Semester

03.03.2022

DEPARTMENT CIRCULAR

Department of Electrical and Electronics Engineering and IQAC of IGCE in association with Startus Electric is going to organize Value Added Course for all Second, Third and Final year students on "ELECTROCHEMICAL ENERGY STORAGE" from 07.03.22 to 11.03.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Venue	EEE III Year Class Room	
Resource Person Detail	Trainer, Startus Electric, Trichy.	
	1. Mr.R.Durai Raj,	

HOD/EEE

PRINCIPAL

Cc:

· Principal Office

Gr. Ma lathi

- IOAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year EEE Students
- Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Gr. Ma Cathi

HOD/EEE

Value Added Course

"ELECTROCHEMICAL ENERGY STORAGE"

SYLLABUS

s.no	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to electrochemical energy storage and conversion	3	07.03.2022
2	Definitions and measuring methods	3	07.03.2022
3	Lithium batteries	3	08.03.2022
4	Basic components in Lithium – ion batteries: Electrodes, Electrolytes, and collectors	3	08.03.2022
5	Characteristics of commercial lithium ion cells	3	09.03.2022
6	Sodium ion rechargeable cell	3	09.03.2022
7	Introduction to battery pack design	3	10.03.2022
8	Advanced materials and technologies for super capacitors	3	10.03.2022
9	Li - Air batteries Li - Sulphur batteries	3	11.03.2022
10	Li resources and recycling of Li ion batteries, Other types of batteries	3	11.03.2022
11	Exam	1	11.03.2022
	Total Hours(Excluding Exam)	30	Management of the second

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



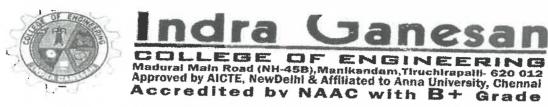
Indra Ganesan GOLLEGE OF ENGINEERING



Medical Main Road (NH-45B), Manikandam, Truchirappalii - 620 012
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Kodiki-j-Alphanyspicoto skiajymanganga			REPORT	ON VAI	LUE A	ADDED (COURSE		
Title:	"ELEC	CTRO	OCHEMICAL EN	NERGY	STOI	RAGE"	reture y emphasississis	***********	
Resource Persons:		Tra Sta	R.Durai Raj, iner, urtus Electric, chy		Marin Marine			*****	2.4
Date of co	nduct fro	m :	07.03.2022	To:	11.0	3.2022	Duration:	30	Hours
Organized Departmen			Electrical and	Electro	nics E	ngineerii	ıg	1	
Participant	Year:	2,3,4				No. of S Register		***************************************	38
Venue:	III Year	Clas	s Room	-		herrope addition from Africansia in the and by their			mbarta.
Outcom	e of Valu	ıe Ac	ided Course (V.	AC): At	the e	ad of the	Course, Stud	ents	can able to
Learn Learn	the conce the most of te the ener	pt of comm	the electrochemical of and potential of	ical cell. ical reac fficiencia	tions i	he energy	conversion sy		
* Innoversitational Confession (Species	and the control of th	· magning appropria	Ass	essment	Proc	ess		MARTINE SECTION S	
attendand	te is eligitore = (0.5)	ble to	uring more than receive the certi endance in VAC	ificate fo	or the '	VAC cour	se conducted		
VAC Coo	rdinator	The commence of the commence o	-		Ma OD/EI	lath.		and the same agency	Projectional

Dr. G. Balakrishnan, M.E., Ph.D., Principal



Department of Electronics and Communication Engineering Academic Year 2021-2022-ODD Semester

23.02.2022

DEPARTMENT CIRCULAR

Department of Electronics and Communication Engineering and IQAC of IGCE in association with Galwin Technology, Trichy, is going to organize Value Added Course for all Second, Third and Final year students on "Lab View" from 01.03.2022 to 05.03.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail

Mr.Deepan, Trainer Galwin Technology, Trichy

Venue

DSP Lab

HOD/ECE

PRIVCIPAL

Cc:

- Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year ECE Students
- Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,



Madural Main Road (NH-458), Manikandam, Tiruchirapalii-620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal
Accredited by NAAC with B+ Grade

Value Added Course

"Lab View"

SYLLABUS

s.No	TOPIC COVERED	DURATI ON (in hours)	DATE
1	Introduction Lab View - Evolution of LabVIEW Lab View add on tool kits	3	01.03.2023
2	Lab View Real Time, FPGA, PDA, and Embedded	3	01.03.2023
3	Lab View Environment Front panel, control and indicator- Block Diagram, Nodes, Wires, Data Flow Programming	3	02.03.2023
4	Lab View Projects, Project Explorer window, project Explorer Toolbars Building Application- Installers- Floating Pallets	3	02.03.2023
5	Lab View Foundation - Creating VI- Basic Controls	3	03.03.2023
6	Indicators- Boolean's- String- Paths	3	03.03.2023
7	Automatic wire routing-Automatic Wiring	3	04.03.2023
8	Wiring Tips- adding Constants- Controls and indicators	3	04.03.2023
9 Keyboard Shortcuts- Cloning and object		6	05.03.2023
10	Exam	1	05.03.2023
	Total Hours (Excluding Exam)	30	AM.

Balakui VAC Coordinator

HOD/ECE

Dr. G. Balakrishnan, M.E., Ph.D.,



Madural Main Road (NH-45B), Manikandam, Tiruchirapalli-620 012
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Accredited by NAAC with B+ Grade

			REPORT ON V	ALUE	ADDE	D COUR	SE .		
Title:		«J	Lab View"						
Resource	LOSSOIN	Mr.Dee	epan,Trainer, Galwii	Techi	nology,				
Date of co	nduct fro	m:	01.03.2022	To:	05.03	.2022	Duration:	30 Ho	urs
Organized	Departn	nent:	Electronics and	Comm	unicati	on Engin	eering	1	
Participan		2,3,4				No. of S	tudents Registe	ered:	53
Venue:	DSP La	b							
Outcome	of Value	Adde	d Course (VAC): A	At the 6	nd of t	ne Course	e, Students car	be abl	e to
abilituse	ty to quic of Lab vi	kly fac ew sof	er applications cilitate taking measu tware is predominar dded programming			vhere hare	dware products	are	e
			Ass	essmei	it Proc	ess			
attend	ance is elections and series are series and series are series and series and series and series are series and series and series and series and series are series are series and series are	igible	curing more than 7 to receive the certifitendance in VAC o	cate fo	r the V	C course	conducted		

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Department of Mechanical Engineering

Academic Year 2021-2022 -Odd Semester

07.12.2021

DEPARTMENT CIRCULAR

Department of Mechanical Engineering and IQAC of IGCE in Association with CADD centre, Trichy is going to organize Value added course for all III, IV Year students on "Solid state Joining Technologies" From 13.12.2021 to 18.12.2021, certificates will be issued to be eligible participants at the end of the course. This training is to be provided in our campus.

10	1. Mr.Faizal Ahamed
	Trainer,
	UNIQ-MEP,
Resource Person Details	Trichy
	2.Mr.Sundaramoorthi,
	Trainer,
	UNIQ-MEP,
	Trichy
Venue	GOOGLE MEET
	Meet Link: meet.google.com/hiz-vzeg-sre

H₀D/MECH

PRINCIPAL

Cc:

• Principal office

• IQAC Co-Ordinator

Mechanical Faculties Room

Class In charges - III & IV-Year

III & IV-Year MECH Students Class Room

· Office Notice Board

Dr. G. Baiakrishnan, M.E., Ph.D. Principal



Value Added Course

"Solid state Joining Technologies"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE	
1	Introduction Manufacturing and Joining process	3	13.12.2021	
2	Principle of fusion Welding process	3	13.12.2021	
3	Brazing process	3	14.12.2021	
4	Safe analysis of metallic joints	3	14.12.2021	
5	Solidification of weld metals	3	15.12.2021	
6	Explosive welding	3	15.12.2021	
7	Weldabilty of aluminium alloys	. 3	16.12.2021	
8	Residual stress and distortion	3	16.12.2021	
9	FEM for manufacturing process	2	17.12.2021	
10	Failure analysis and prevention	2	17.12.2021	
11	Hybrid joining technologies	2	18.12.2021	
11	Exam	1	18.12.2021	
	Total Hours	30		

VAC Coordinator

HoD/MECH

Dr. G. Balakrishnan, M.E., Ph.L. Principal



			Report on	Value	e Ado	ded C	ourse			
Title:	Solid	state	ate Joining Technologies							
Resource	e Person:	Off UN	Ir.Faizal Ahame icer, IQ-MEP chy.	ed &2.N	⁄Ir.Sun	ıdaramo	orthi,			
Date of c	onduct fro		13.12.2021	To:	18.12	2.2021	Duration:	30 Hours		
Organized Department:			MECHANICAL ENGINEERING							
Participant Year: 3, 4						No. of S	Students Registe	ered: 43		
**	COOCI	F MI	r F T							

Venue:

online mode Google Meet: meet.google.com/hiz-vzeg-sre

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Knowledge about Forge welding process
- Learning platform about cold welding process
- Know the practical skill development knowledge about diffusion welding process.
- friction welding and explosion welding process
- Industrial application oriented hot pressure welding process.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

Principal

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Department of Information Technology

Academic Year 2021-2022 -ODD Semester

11.12.2021

DEPARTMENT CIRCULAR

Department of Information Technology and IQAC of IGCE in association with Fantasy Solution, Trichy is going to organize Value Added Course for all Second, Third and Final year students on "Manipulation of Nano Technology in Materials" from 13.12.2021 to 17.12.2021 Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1.Mr.S.Karthikeyan,
	Project Manager,
Resource Person Detail	Fantasy Solution, Trichy.
	2.Mr.R.Ragul Kannan
	Project Manager
	Extazyy Thillai Nagar Trichy .
Venue	IT Seminar Hall, IGCE

(eu) нодлт

PRINCIPAL

Cc:

- Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year IT Students
- Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Value Added Course

"Manipulation of Nano Technology in Materials"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction of Manipulation of Nano Technology	3	13.12.2021
2	Manipulating atoms and molecules	3	13.12.2021
3	scanning tunneling microscope (STM) and the atomic force microscope (AFM)	3	14.12.2021
4	Scanning Tunneling Microscope	3	14.12.2021
5	Application of Nano Technology	3	15.12.2021
6	Nano Technology in Energy	3	15.12.2021
7	Carbon nanotubes (CNTs)	3	16.12.2021
8	Nanobiotechnology, bionanotechnology, and nanobiology	3	16.12.2021
9	Nanotechnology in warfare	3	17.12.2021
•	Nanoelectronics	2	17.12.2021
1	Exam	1	17.12.2021
	Total Hours (Excluding Exam)	30	= -

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,



Madural Main Road (NH-45B), Manikandam, Trichy-12.
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Dr. G. Balakvishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

REPORT ON VALUE ADDED COURSE

Title:	"Man	ipula	ation of Nano Technology in Materials"						
Resour	rce Person	Proj	S.Karthikeyan, ject Manager, tasy Solution, hy				Proje Extaz	R.Ragul Kannan ect Manager zyy Thillai er Trichy	
Date of co	onduct fro	m:	13.12.2021	To:	17.12.	17.12.2021 30 hours			
Organize	l Departm	ent:	Information Te	chnology	7				
Participar	t Year:	2,3,4	1			No. o	of Stu	dents Registered:	75
Venue:	IT Semi	nar H	all						

Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to

- Able to engage in research and life-long learning to provide technical solutions to interdisciplinary problems in science and technology.
- Considering the temporal and societal context into account, able to apply ethical and management principles to work in a team as well as to lead a team.
- Independently carry out research/investigation and development work to solve practical problems in Nanotechnology.
- Employ modern engineering and nanotechnology concepts to cater the needs of the community.
- Provide solutions to varied engineering and scientific problems up to molecular/atomic scales through the interpretation of data using modern sophisticated Instruments and computational tools.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% inattendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

HoDAT

Principal



Indra Ganesan COLLEGE OF ENGINEERING Markurai Main Road (NH-45R) Marikandary Tiruchirangalii - 620 012



Madurai Main Road (NH-45B), Manikandern, Tiruchirappelli - 620 012 Approved by AICTE, NewDelti & Affiliated to Arma University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

Department of Science and Humanities

Academic Year 2021-2022 -Odd Semester

08.12.2021

DEPARTMENT CIRCULAR

Department of Science and Humanities and IQAC of IGCE In Association with Surya solar is going to organize Value Added Course for all first year students on "Basic of electrical, plumbing & two wheeler mechanism" from 13.12.2021 to 17.12.2021. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1. Mr. G. Vijayan, Operation manager, Surya solar, Hosur
Resource Person Detail	Surya Sular, Hosur
	2. Mr.C.Rajeshkhanna
	Team leader,
	Surya solar, Hosur
Venue	Google meet
v chuc	https://meet.google.com/sgi-hior-ygr

S. Eschalar HOD/S&H

PRINCIPAL

Cc:

- Principal Table
- IQAC Co-Ordinator
- HoD/S&H
- Class In charges I-Year
- I-Year S&H Students
- Office File
- NoticeBoard

Dr. G. Balakrishnan, M.E., Philo.,

Principal





Value Added Course

"Basic of electrical, plumbing & two wheeler mechanism"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Safety Rules and Safety Signs	3	13.12.2021
2	Introduction to Electricity	3	13.12.2021
3	Basic Concepts Practical	3.	14.12.2021
4	Awareness about the significance of plumbing	3	14.12.2021
5	Importance of observing safety rules while working with pipes and professional ethics	3	15.12.2021
6	Familiarization with tools and material of plumbing	3	15.12.2021
7	Basics of Motor Vehicle Technology Theory	3	16.12.2021
8	General check for two wheeler	3	16.12.2021
9	stroke engines	3	17.12.2021
10	Functions &Types of lubrication	3	17.12.2021
11	Exam	1	17.12.2021
	Total Hours (Excluding exam)	30	-

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal







			1 D	. 1 7-1		od Cours	Δ		
Title:			" Basic of electric					anisı	m"
Resource Person:			Mr. G. Vijayan, Operation manager, Surya solar, Hosur			Mr.C.Rajeshkhanna Team leader , Surya solar, Hosur			khanna ,
Date of co	nduct fr	om:	13.12.2021	То:	17.12	2.2021	1 Duration: 3		Hours
Organized	Departr	nent:	SCIENCE AND	HUM	ANIT	IES			
Participan	Participant Year: 1					No. of Students Registered:			152
Venue:	-	/meet	.google.com/sgi-hi	,					
Outco	me of V	alue A	dded Course (VA	C): A	t the e	nd of the	Course, Stud	ents	can able to
2. Basic 3. Demo selection 4. Demo growth a 5. Learn	knowle nstrate and de nstrate and moo shop sa	dge a logic term profe leling afety.	etric safety aspectabout electric. al reasoning in printing adequate justified by descriptions. a industry norms equipment.	olumb oining evelo	g proo	esses. goals for	personal an	ıd pı	rofessional
0. 011461				essme	nt Pro	cess			
 Students, who are securing more than 60% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks) 									
VAC	Coordi	ator	Ş	oD/S	obald &H	av		÷	Principal

Dr. G. Balakrishnan, M.E., L. Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(E) Status Institution by UGC



Department of Management Studies

Academic Year 2021-2022 - Odd Semester

04.10.2021

Ref: IGCE/MBA/2021-22/VAC/01

DEPARTMENT CIRCULAR

Department of Management Studies and IQAC, IGCE in association with **Trytax Professionals** organizing Value Added Course for all Final year students on "**Preparation of Payroll for an Organisation**" from 18.10.2021 to 22.10.2021. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Interested students can register their names with the VAC Co-ordinatorMrs.Nisha Martina L for this program on or before 13th October 2021.

Resource Person:	Mr.Sudharsan / MD Trytax Professionals Trichy
Venue:	MBA Seminar Hall

НФД/МВА

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Cc:

- Principal Office
- IQAC Co-Ordinator
- HoD/ MBA
- II -Year MBA Students
- Notice Board



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Value Added Course on "Preparation of Payroll for an Organisation"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to payroll management	1	18/10/202
2	Requirements for record keeping	1	18/10/2021
3	Summarising salary payments	1	18/10/2021
4	Deductions	1	18/10/2021
5	Payslips	2	18/10/2021
6	Tax considerations	1	19/10/2021
7	Handling sick and parental leaves	1	19/10/2021
8	Dealing with financial errors	1	19/10/2021
9	Income under the salaries head u/s 17 (1) of Income Tax Act	1	19/10/2021
10	Salary components in terms of fixed and variable	1	19/10/2021
11	Claim and reimbursement management	1	19/10/2021
12	Employee Provided Fund and Employee State Insurance (ESI)	1	20/10/2021
13	Employee State Insurance (ESI)	1	20/10/2021
14	Labor Welfare Fund and Professional Tax	1	20/10/2021
15	Taxable and non-taxable allowances	1	20/10/2021
16	Tax Deduction at Source	2	20/10/2021
17	LTA, HRA, Leave encashment and Gratuity calculations	3	21/10/2021
18	Full and final Calculation	3	21/10/2021
19	Income Tax Formulas in Excel	2	22/10/2021
20	Practice and Calculation of Payroll in Excel	3	22/10/2021
21	Assessment	1	22/10/2021
	Total Hours	30%	24/10/2021

Dr. G. Balakrishnan, M.E., Ph.D., Principal



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AfCTE, NewDelhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(E) Status Institution by UGC



			Report on V	Valu	e Ad	ded C	ourse		
Title:	Prepai	reparation of Payroll for an Organisation							
Resource	Person:	Mr.	Sudharsan / MD						
		Tryt	tax Professionals						
		Tric	hy						
Date of conduct from:		m:	18.10.2021	To:	22.10.2021		Duration:	30 Hours	
Organized Department:			MANAGEMENT	STUD	IES				
Participant Year: II yearMBA					No. of S	tudents Registe	ered: 26		
Venue:	MBA - S	Semin	ar Hall & Comput	er Lab					

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

Recognize and Explain Indian Payroll.

Formulate LTA, HRA, Leave encashment and Gratuity

Classify Various Deductions in Payroll.

Implement Employee Provided Fund and Employee State Insurance (ESI).

Design Payslip.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

HoD/MBA

Principal

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal







Ref: IGCE/CIVIL/2021-22 VAC/01

03.03.2021

Department Of Civil Engineering

Academic Year 2021-2022 Even Semester

DEPARTMENT CIRCULAR

Department of Civil Engineering and IQAC of IGCE in association with 5D Architects & Constructions. Is going to organize Value Added Course for all second, third and final year students on "STAAD.Pro" from 07.03.2021 to 11.03.2021. Certificates will be issued to the eligible Participants at the end of the course. This training is to be provided in our campus.

Resource Person Details:	Ms.R.Sheela, Ms.Swetha
	Trainers
	5D Architects & Constructions
	Trichy
Session Taken from:	Civil Seminar Hall

Cc:

- PRINCIPAL OFFICE
- HOD/CIVIL & Faculty Members
- All II,III and IV Year B.E CIVIL Classes
- IQAC Coordinator
- Notice Board
- Office File

0.

Pr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engine only
IG Valley, Madural Iviain Road
Manikandam, Trichy-620 012.









Value Added Course on "STAAD.PRO"

SYLLABUS

S.NO	TOPIC COVERED	DURATI ON (in hours)	DATE
1	Introduction to staad pro modeling of 2d rc frames,	3	07.03.2021
2	Node creation adding beams, member property and loading analysis & view results	3	07.03.2021
3	Introduction to 3d structures, node creation(theory & practical) types of loading, load cases for rc building	3	08.03.2021
4	types of loading, load cases for rc building	3	08.03.2021
5	Calculation for wind and seismic analysis and view output files.	3	09.03.2021
6	results normal design for rc building interactive design RC	3	09.03.2021
7	Modeling of 2d steel structures analysis	3	10.03.2021
8	view results introduction to structure wizard model type steel 3d	3	10.03.2021
9	Normal design for steel structures interactive design	3	11.03.2021
10	steel modeling of plates load cases for plates water tank design, analysis and view output files results	3	11.03.2021
11	Exam	1	11.03.2021
	Total Hours	30 (Excluding Test)	**

Accoordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Read
Manikandam, Trichy-620 812.

HoD/CIVIL



	REPORT ON VALUE ADDED COURSE							
Title:	STAAD.PRO							
			R.SHEELA, Ms.SV ARCHITECTS & (ONS,TRI	СНҮ	
Date of co	nduct fro	m :	07 .03 .202	To:	11.1	2021	Duration:	30 Hours
Organized	Departm	ent:	Civil Engineeri	ng		48		
Participan		2, 3, 4		No. of Students Registered:			ered: 17	
Venue:	Online G	oogle	meet					
Outcome	of Valu	e Ad	ded Course (VA	C): At	the en	d of the	Course, Stude	ents can able to
KnoStuStu	ow how t dy about dents are	o perf Staad expec	mportance of softwater in civil softwater in civil engine pro of civil engine ted to learn and protected understanding	re in ind ering so actice th	lustries ftware e skills	s. 's. s they will		rkplace.
			Asse	ssment	Proce	ess		
attenuan	ore $= (0.5)$	idle to	uring more than receive the certific endance in VAC or	cate for t	he VA	C course o	conducted	
Q.	Cooldi	nator	Y	Livi ToD/CI	VIL	+	PRIN	CIPAL

0

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 812.



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Department of Computer Science & Engineering

Academic Year 2021-2022 - Even Semester

01.06.2022

DEPARTMENT CIRCULAR

Department of Computer Science and Engineering and IOAC of IGCE in association with Azatech is going to organized Value Added Course for BE-II,III,IV and M.E First, Second year students on "Django Framework "from 06.06.2022 to 11.06.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus

Resource Person	1. Mr. Aazman, Project Manager, Azatech Trichy	produce sugar
	2. Mr. T.Samy Trainer Azatech Trichy	
Venue 1	SD LAB	100000000000000000000000000000000000000
Venue 2	NETWORK LAB	Section of the sectio

Cc:

- Principal Office
- IQAC Co-Ordinator
- HoD/CSE
- Class In charges II, III, IV,M.E-I, II Year
- II, III, IV, M.E-I, II Year CSE Students
- Office File
- NoticeBoard

Dr. G. Balakrishnon, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellni & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



Department of Computer Science & Engineering

Academic Year 2021-2022 - Even Semester

Value Added Course on

"Django Framework"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
war early and a second	Introduction		And the second of the second o
	Overview		· ·
	HTTP protocol MVC model		
1	Virtual environment	3	06-06-2022
1	Django structure	J	00-00-2022
	Generic Views		
	HTML templates	1	•
m	➤ URL dispatcher		100
	Advanced Django for Web and Automation		1
	Custom Views	Poper on	P
2	GET and POST methods	3	06-06-2022
4	> URL shortener	3	00-00-2022
	Deployment of Django		***************************************
	Automating tasks with Django		1
	Django REST		
	➢ JSON Building RESTful APIs		
	➢ Filtering Models		4
3	Authentication with tokens	3	07-06-2022
	Postman		
	Related models		
	Contenttypes app		
	Deploying Web APIs	and a gentless of	
4	Understanding Using API endpoints	3	07-06-2022
4	Deployment of Django REST project Multiple	3	07-00-2022
	Controllers and their scopes		
	Final Project and Presentation	Question and the second	
	Built-In Filters Uppercase and Lowercase		
5	Filters	3	08-06-2022
,	Concept presentation)	UO-UU-2U22
The state of the s	> Approval by committee	200	1
90 House	> Working on the project	barra Mara ni ni	

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manifordam, Trich (CAN 042)



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



Department of Computer Science & Engineering

Academic Year 2021-2022 - Even Semester

	Total Hours	36	- m
11	Exam	1	11-06-2022
10	Live Project Implementation ➤ Project life cycle ➤ Creating a functional website in Django	5	11-06-2022
9	Django Forms Creation Django template tags If/else If/elif/else For Comments Filters Using templates to display data in the site	3	10-06-2022
8	Creating Administration Panel ➤ Using the admin interface ➤ Customizing the admin interface ➤ Adding users ➤ Data access and modification using admin panel ➤ Giving permissions to users	5	09-06-2022
7	Creating A Website - Project Creating an app inside the project Activating the app Filtering objects Deleting objects	3	09-06-2022
6	> Finishing the project Django architecture > MVC and MTV > Starting a project > Django apps > Template inheritance > Sending data from url to view	3	08-06-2022
	Intermediate report to committee		•

VAC Coordinator

(D:

W Glidd HoD/CSE

Dr. G. Balakrishnan, M.E., Ph.E. Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012



COLLEGE OF ENGINEERING





Department of Computer Science & Engineering

Academic Year 2021-2022 - Even Semester

10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Report on	Value	Add	ed Co	ourse		
Title:	Djang	Django Framework							
Resource	Person:	Pro	Aazman, ject Manager, tech Trichy			Train	'.Samy er ch Trichy		
Date of conduct from: 06.06.2022 To:				To:	11.06.	2022	Duration:	36 F	lours
Organize	i Departn	nent:	COMPUTER S	CIENCE .	AND EN	VGINEE	RING	-11	
Participant Year: B.E-II,III & IV- Year /CSE I,II ME				errorring dans	No. of Students Registered: 96				
Venue:	SD LAF	B,NET	WORKLAB						ر <i>ښانځننځ</i> اپسر
	war a supermore infrinte	perfect the market	lded Course (V	, manner		of the	Course, Stud	ents o	can abl
			outes (or views)						
			atic content and						
· H			templates with						

- How to create Models and how to connect them with Templates and Views.
- How to work with databases using SQLite.
- How to handle and validate forms in Django...

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- * Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

HoD/CSE

Procipal

Dr. G. Balakrishnan, M.E., Ph.O., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012





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Department of Electrical and Electronics Engineering

Academic Year 2021-2022 - Even Semester

27.07.2022

DEPARTMENT CIRCULAR

Department of Electrical and Electronics Engineering and IQAC of IGCE in association with Sri Sai Software is going to organize Value Added Course for all Second, Third and Final year students on "Automation using PLC and SCADA" from 01.08.2022 to 05.08.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail	Dr.M.Aravith, Design Engineer, Sri Sai Software.
Venue	EEE III yr Classroom, IGCE

Principal

Cc:

- Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year EEE Students
- Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.





Value Added Course

"Automation using PLC and SCADA"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE	
1	Introduction to PLC	3	01.08.2022	
2	Architecture PLC Block diagram	3	01.08.2022	
3	PLC Hardware	3	02.08.2022	
4	Interfacing Instruction set, Ladder login for applications	3	02.08.2022	
5	PLC programming and applications	3	03.08.2022	
6	Timer, counter, Arithmetic operations, Data handling instructions.	3	03.08.2022	
7	Introduction to SCADA	3	04.08.2022	
8	Architecture, Block diagram of SCADA.	3	04.08.2022	
9	Types and Application of SCADA.	3	05.08.2022	
10	Interfacing of SCADA with PLC.	3	05.08.2022	
1	Exam	1	05.08.2022	
and and	Total Hours(Excluding Exam)	30	additional additional additional	

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

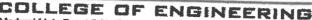
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Gr. Ma Latter

HOD/EEE





Medural Mein Road (NH-45B), Menikandam, Tiruchirappelli - 620 012 Approved by AICTE, New Delth & Affiliated to Anna University, Ct NAAC Accredited, 2(f) Status Institution by UGC



			Report	on Vah	ie Ad	lded Co	ourse				
Title:	"Auto	matio	n using PLC and	using PLC and SCADA"							
Resource	Person:	Des	M.Aravith, ign Engineer, Sai Software.			Second	· · · · · · · · · · · · · · · · · · ·				
Date of co	Date of conduct from:		01.08.2022	To:	05.08.2022		Duration:	30 Hours			
Organized	Organized Department:		Electrical and	Electron	ics En	gineering		The state of the s			
Participant Year: 2,3,4		Ange telling to the Commission of the State	Military of the Addition of		No. of S	tudents Regist	ered: 38				
Venue:	EEE III	yr Cla	Classroom								

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Develop block diagram of PLC and explain the working.
- Classify input and output interfacing devices with PLC.
- Develop architecture of SCADA and explain the importance of SCADA in critical infrastructure.
- Execute, debug and test the programs developed for digital and analog operations.
- Describe various SCADA protocols along with their architecture.
- Observe development of various industrial applications using PLC and SCADA

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

Gr. Malathi

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



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Accredited by NAAC with B+ Grade

Department of Electronics and Communication Engineering Academic Year 2021-2022-EVEN Semester

27.07.2022

DEPARTMENT CIRCULAR

Department of Electronics and Communication Engineering and IQAC of IGCE in association with Hitakey Infosys, Trichy, is going to organize Value Added Course for all Second, Third and Final year students on "Introduction to Machine Learning" from 01.08.2022 to 05.08.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus

Resource Person Detail	Ms.Shalom Jerlin , Technical Head, Hitakey Infosys, Trichy
Venue	DSP Lab, IGCE

HOD/ECE

PRINCIPAL

Cc:

- Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year ECE Students
- · Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Value Added Course

"Introduction to Machine Learning"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE	
	Introduction: A brief introduction to machine learning	3	01.09.2022	
2	Supervised Learning		01.08.2022	
3	Reinforcement Learning	3	01.08.2022	
		3	02.08.2022	
4	Probability theory	3	02.08.2022	
5	Probability Basics 1& 2	-	03.08.2022	
6	Linear Algebra 1&2	3		
7	Statistical theory	3	03.08.2022	
	and the second s	3	04.08.2022	
3	Bias variance			
	Linear Regression	3	04.08.2022	
		6		
	Exam	1	05.08.2022	
	Total Hours (Excluding Exam)	1	05.08.2022	
	(Concurring Exam)	30	-	

Bala Cersil VAC Coordinator

Dr. G. Balakrishnan, M.E., Palu.

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

turne

HOD/ECE



COLLEGE OF ENGINEERING Madural Main Road (NH-458), Manikandam, Tiruchirapalit-620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal Accredited by NAAC with B+ Grade

the second of th	oraș de la constante	REPORT O	N VALI	JE ADDED	COURSE			
Title:	"Introduction to Machine Learning"							
Resource Pers	Te Hit Tri	s.Shalom Jerlin , chnical Head, takey Infosys chy				Abbrohm nggg		
			То:	05.08.2022	Durati	ion:	30 E	Iours
Partining V	artment:	Electronics and	Comm	unication E	gineering			Contract to the second
- Capant 1 Ca	2,3,4	CCE Seminar hall	de la	W. parenterpay	of Students Re	gister	ed:	52
logistic regr Understand Understand Apply the al accuracy tha	ession. a wide var how to eva gorithms to t can be ac	achine-learning algoriety of learning algoriety of learning algoriety of areal problem, of a real problem, of thieved by applying Assessing more than 70%	gorithms gorithms rated fro ptimize g the mo sment P	including de m data. the models le dels. rocess	cision trees, na	aïve B	the e	and xpected
		ceive the certificate	2 TOT the	VAC				
Jakin		ME	D/ECE	and			1	

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



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Department of Mechanical Engineering

Academic Year 2021-2022 -EVEN Semester

Date: 01.06.2022

DEPARTMENT CIRCULAR

Department of Mechanical Engineering and IQAC of IGCE in Association with CADD centre, Trichy is going to organize Value added course for all II, III, IV Year students on "Graphene Battery Technologies" From 06.06.2022 to 11.06.2022, certificates will be issued to be eligible participants at the end of the course. This training is conducted through online mode

	1.Mr.Balaji
	Trainer,
	CADD Centre,
Resource Person Details	Trichy
	2.Mr.Sundaramoorthi,
	Trainer,
	CADD Centre,
	Trichy
Venue	Online mode
	GoogleMeet:meet.google.com/ack-bfod-zmp



Cc:

- Principal office
- IQAC Co-Ordinator
- Mechanical Faculties Room
- Class In charges -II, III & IV-Year
- II,III & IV-Year MECH class Rooms
- Office Notice Board

PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madural Main Road
Manikandam, Trichy-620012.



COLLEGE OF ENGINEERING





Value Added Course

"Graphene Battery Technologies"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE	
-1	Fundamentals of batteries	3	06.06.2022	
2	Types of batteries	3	06.06.2022	
3	Life cycle and efficiency of batteries	3	07.06.2022	
4	Primary batteries	3	07.06.2022	
5	Chemistry and technology uses in batteries	3	08.06.2022	
6	Electrolyte battery applications	-3	08.06.2022	
7	Secondary batteries	2	09.06.2022	
8	Glass met lead acid battery	2	09.06.2022	
9	Lithium iron batteries	2	10.06.2022	
10	Fuels cells	3	10.06.2022	
11	PEMFCand AFC batteries.	3	11.06.2022	
11	Exam	1	11.06.2022	
	Total Hours	30		

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



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Title:	Gra	phen	Report on e Battery Technology	ologie	s.		our se		
Resource Person1: Mr. Abhu Co-ordina UNIQ-MI			Mr. Abhu Co-ordinator UNIQ-MEP, Trichy			D- 0 5	(A)		
		Mr. Yasar Arafatl	1		Dr. G. B	lakrishnan, M.	E., Ph.	D.,	
	C180112		Co-ordinator UNIQ-MEP,	,	,		san College of E y, Madurai Mair ndam, Trichy-62		ring
			UNIQ-MEP, Trichy			Manika			ring
Date of con	duct fro	om:	UNIQ-MEP, Trichy 06.06.2022	To:	11.06	Manika		1 Road 0 012.	
Date of con	duct fro	om:	UNIQ-MEP, Trichy 06.06.2022	To:	11.06	Manika	ndam, Trichy-62	1 Road 0 012.	ring Hours
Date of con Organized I Participant	duct fro	om:	UNIQ-MEP, Trichy 06.06.2022 MECHANICAL	To:	11.06. SINEE	Manika 2022 RING	Duration:	Road 0 012.	Hours
Date of con Organized I	duct fro	om:	UNIQ-MEP, Trichy 06.06.2022 MECHANICAL	To:	11.06. SINEE	Manika 2022 RING	ndam, Trichy-62	Road 0 012.	

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Introduce the various terms to understand the efficiency of batteries
- know the relevant materials required for the construction of primary and secondary batteries
- familiarize with the reactions involved during charging and discharging batteries process
- Evaluate different batteries or fuel cells in order to select a suitable battery or fuel cell for a
- Explain the working principle, electrochemistry technology and application of prominent fuel

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of

VAC Coordinator



Department of Information Technology

Academic Year 2021-2022 - EVEN Semester

11.02.2022

DEPARTMENT CIRCULAR

Department of Information Technology and IQAC of IGCE in association with Lift Technologies is going to organize Value Added Course for all Second, Third and Final year students on "Deep Learning in Cyber Security" from 14.02.2022 to 18.02.2022 Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1.Prof. Mr.Tamilventhan Director, Lift
Resource Person Detail	Technologies Trichy.
	2.Mr. R.PremNath,
	Project Manager, Tata
	Motors, Chennai.
Venue	IT Seminar Hall, IGCE

HOD/IT

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering g IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Cc:

- Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year IT Students
- Office File
- Notice Board



Value Added Course

"Deep Learning in Cyber Security"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Intrusion Detection and Prevention Systems (IDS/IPS)	3	14.2.22
2	Signature-Based Detection	3	14.2.22
3	Spam and Social Engineering Detection	3	15.2.22
4	User Behavior Analytics	3	15.2.22
5	Monitoring Emails	3	16.2.22
6	Supervised machine learning in cybersecurity	3	16.2.22
7	Binary classification—dividing data into two categories	3	17.2.22
8	Adaptive boosting and logistic regression	3	17.2.22
9	Reinforcement machine learning	3	18.2.22
10	Unsupervised machine learning in cybersecurity	2	18.2.22
11	Exam	1	18.2.22
	Total Hours (Excluding Exam)	30	-

VAC Coordinator

(D:

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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



DEDODT	ON VALUE	ADDED	COUDSE
REPURI	CIN VALUE.	AIJIJEJ	CUURSE

Title:

"Deep Learning in Cyber Security"

Resource Person: Prof.Mr. Tamilventhan Director, Director, Lift Technologies, Trichy

Mr.R.PremNath,

Project MAnager,Tata

Motors, Chennai

Date of conduct from:

14.02.2022

To: 18.02.2022

Duration: 3

30 Hours

Organized Department:

Information Technology

Participant Year: 2.3.4

No. of Students Registered:

75

Venue:

IT Seminar Hall

Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to

- Decision tree algorithm for detecting and classifying attacks
- Dimensionality reduction algorithms for removing noisy and irrelevant data
- K-means clustering for detecting malware, K-nearest neighbors classifier (kNN) for facial recognition used for authentication
- Linear regression for predicting network security outcomes, Logistic regression for fraud detection
- Support Vector Machine (SVM) algorithm for classifying, detecting, and predicting blacklisted IP addresses
 and port addresses

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% inattendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

HoD/IT

Princ

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



Indra Ganesan COLLEGE OF ENGINEERING Marking Mail Road (NH 450) Marikandar Trucker III 000 010



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 820 012
Approved by AICTE, NewDelhi & Affiliated to Arma University, Chemical
NAAC Accredited, 2(F) Status Institution by UGC

Department of Science and Humanities Academic Year 2021-2022 - Even Semester

10.05.2022

DEPARTMENT CIRCULAR

Department of Science and Humanities and IQAC of IGCE in association with Surya Solar, is going to organize Value Added Course for all first year students on "Digital marketing" from 09.05.2022 to 13.05.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Venue	Google meet https://meet.google.com/sgi-hior-ygr		
Resource Person Detail	 Mr. G. Vijayan, Operation manager, Surya Solar, Hosur, Mr. C. Rajesh Khanna Team Leader, Surya Solar, Hosur 		

HOD/S&H

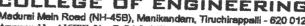
PRINCIPAL

Cc:

- · Principal office
- IQAC Co-Ordinator
- HoD/S&H
- Class In charges I-Year
- I-Year S&H Students
- Office File
- NoticeBoard

Dr. G. Balakrishnan, M.E., Ph.D.,









Value Added Course

"Digital marketing"

SYLLABUS

S.NO		DURATION (in hours)	DATE
1	Role of Marketing	3	09.05.2022
2	Consumers and Consumption	3	09.05.2022
3	Segmentation, Targeting and Positioning	3	10.05.2022
4	Designing Products and Services	3	10.05.2022
5	Pricing and Channels	3	11.05.2022
6	Introduction to Digital Marketing Basics	3	11.05.2022
7	Digital vs. Traditional Marketing	3	12.05.2022
8	Personas in Digital Marketing	3	12.05.2022
9	Developing, Using and Refining Personas	3	13.05.2022
10	Consumer Journey Mapping Frameworks	3	13.05.2022
11	Exam	1	13.05.2022
	Total Hours(ExcludingExam)	30	times over the second s

oordinator

Dr. G. Balakrishnan, M.E., Ph.D.,





Medural Main Road (NH-45B), Manikandern, Tiruchirappelli - 620 012
Appaved by AICTE, NewDellii & Affiliaded to Annu University, Chemani
NAAC Accredited, 2(F) Status Institution by UGC

		Report or	ı Valu	e Add	ed Course			
" Dig	tal m	Vancation				Mary Annual Park		
Resource Person: Mr. G. Vijayan Operation manager Surya Solar, Hosur		er	Mr. C. Rajesh Khanna Team Leader, Surya Solar, Hosur					
nduct fr	om:	09.05.2022	To:	13.0	5.2022	Duration:	30	Hours
Departr	nent:	SCIENCE AND	HUM	ANIT	TES	1		my/file file (5%, etc.)
t Year:	1						***************************************	152
Google	meet							
https://	meet.	google.com/sgi-hid	r-ygr					
ne of Va	ilue A	dded Course (VA	C): A1	the e	nd of the C	Course, Stud	ents	can able to
tion and tanding on of on he deve	of the	ioning strategies are role of both digital offline strategient of a digital pro	and ot tal and ies and esence	her eld tradical tacti	ements. itional mecs. a marketi	dia in marke	eting view	y, and the
 Students, who are securing more than 60% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks) VACcoordinator HoD/S&H Principal							a VAC out of	
	Person: nduct fro Departr Year: Google https:// ne of Var p and exting an of on the deve icient in ent.	Person: Department: Year: 1 Google meet https://meet. ne of Value A p and execute tion and posit tanding of the on of online at the development icient in mark ent. s, who are see the is eligible to the the core = (0.5 *At	Person: Person: Operation is Surya Solar induct from: O9.05.2022 Department: SCIENCE AND Year: 1 Google meet https://meet.google.com/sgi-hich me of Value Added Course (VA p and execute a marketing plantion and positioning strategies it anding of the role of both digit on of online and offline strategies the development of a digital prediction in marketing analytics are it. s, who are securing more than are is eligible to receive the certification of the core = (0.5 *Attendance in VAC of the core = (0.5 *Attenda	Person: Mr. G. Vijayar Operation manages Surya Solar, Host	Person: Mr. G. Vijayan Operation manager Surya Solar, Hosur nduct from: O9.05.2022 To: 13.05 Department: SCIENCE AND HUMANIT Year: 1 Google meet https://meet.google.com/sgi-hior-ygr me of Value Added Course (VAC): At the exp and execute a marketing plan, incorporation and positioning strategies and other electron of online and offline strategies and taction of online and offline strategies and taction he development of a digital presence from the development of a digital presence from	Person: Mr. G. Vijayan Mr. G. Vijay	Person: Mr. G. Vijayan Team Lead Surya Solar, Hosur Team Lead Surya Solar, Hosur Team Lead Surya Solar	Person: Mr. G. Vijayan Team Leader, Surya Solar, Hosur Surya Solar, Hosur Team Leader, Surya Solar, Hosur Science And Humanites

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan COLLEGE OF ENGINEERING

Madurai Mein Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDelin & Affiliated to Anna University, Chemnal NAAC Accredited, 2(R) Status Institution by UGC



Department of Management Studies

AcademicYear2021-2022-EvenSemester

08.04.2022

Ref:IGCE/MBA/2021-22/VAC/02

DEPARTMENT CIRCULAR

Department of Management Studies and IQACIGCE in association with M/sWhite & Black Digital Marketing organizing Value Added Course for all First year students on "Etiquettes For Managers" from 18.04.2022 to 22.04.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Interested students can register their names with the VAC Co-ordinator Mrs.Nisha Martina L for this program on or before13th April2022.

Resource Person:	Mr.V.Arunkumar/ MD M/sWhite&BlackDigitalMarketing Trichy			
Venue:	MBA SeminarHall			

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PRINCIPAL

Cc:

- · PrincipalOffice
- IQACCo-Ordinator
- HoD/MBA
- I-YearMBAStudents
- NoticeBoard

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Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellit & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

ValueAddedCourseon"EtiquettesForManagers"SYLLABUS

S.NO	TOPICCOVERED	DURATION (inhours)	DATE
1	IceBreaking Session	3	18/04/2022
2	GreetingandConversation	3	18/04/2022
3	WorkPlaceCommunication-Formal	3	19/04/2022
4	WorkPlaceCommunication-Informal	3	19/04/2022
5	ResumeWriting	2	20/04/2022
6	Group Discussion	2	20/04/2022
7	Timemanagementandeffectiveplanning	2	20/04/2022
8	Mock Interview	5	21/10/2022
9	PresentationSkills	1	21/10/2022
10	CaseStudySolvingwithPresentations	3	22/10/2022
11	CaseStudySolvingwithPresentations	3	22/10/2022
namentalistis.	TotalHours	30	

НОР/МВА

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Read
Manikandam, Trichy-620 012.

PRINCIPAL







	ugest. Voga ,	<u>Reporte</u>	onValu	eAd	dedCo	urse		
Title:	Etique	ettesForManagers						
Resource		Mr.V.Arunkumar MD M/sWhite&BlackD Trichy.	igitalMarke	eting			MACAMANA CIN	
Dateofcor		10104.2022	To:	22.04	1.2022	Duration:	30Hc	ours
Organized		ent: MANAGEMEN	NTSTUDIES		Unio April			Maradana principalis de la proposa popular d
Participan Venue:	·	1 YearMBA ninarHall	Manager and Ann resident appeals described in the Land Control property of the	inglys	No.ofSt	udentsRegistere	ed:	58
		AddedCourse(VA	CO. A445					
MaMa	kethemu	Participantswithther vriteinEnglishprecise peakfluentlyandflaw	elvandeffed	tively		licativecontext	switha	ıll
https://doi.org/com/prophysical and/org/com/prophysical	terror established to be the transfer to the grant of the section	A	ssessment	Proce:	SS		the personal and the second of	demonstrate property of the second second
· ·		ecuring morethan70% the certificate for the Attendance inVACour	- v AC. COHP	ie cana	motod			
VACC	Coordina	tor	CO	MBA	P	Prin	cipal	

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Department of Civil Engineering Academic Year 2020-2021 – ODD Semester

04.02.21

DEPARTMENT CIRCULAR

Department of Civil Engineering and IQAC of IGCE in association with **VEERANAR CONSTRUCTION** is going to organize Value Added Course for all Second, Third and Final year students on "**Advanced Surveying**" from 08.02.21 to 12.02.21, though, https://meet.google.com/mnd-tdmps-gbp (Google meet link). Certificates will be issued to the eligible participants at the end of the Course.

	1. Mr.K. KINGSELY MAXWEL,
	Surveyor,
	Veeranar Construction,
Resource Person Detail	Puthukkottai-614601
Venue	https://meet.google.com/mnd-tdmps-gbp
0 1	(Google Meet)

Cc:

• Principal Table

• IQAC Co-Ordinator

• HoD/Civil

• Class In charges - II, III & IV-Year

• II, III & IV-Year Civil Students

• Office File

Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

India Ganesan College of Engineering
IIGWalley, Madural Main 1980 1990
Manikandam, Irichy-126 012.



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Value Added Course on "Advanced Surveying"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Surveying and introduction in surveying	3	08.02.21
2	Plane and geodetic surveying	3	08.02.21
3	Principles of surveying	3	09.02.21
4	Advanced technology in surveying	3.	09.02.21
5	Drone technology	3	10.02.21
6	Lidar technology	3	10.02.21
7	Drone to map software	3	11.02.21
8	Micro station software	3	11.02.21
9	Arc GIS software	3	12.02.21
10	GPS surveying	3	12.02.21
	Total Hours	30	-

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

HOD/CIVIL

VAC Coordinator,



OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

		RI	EPORT ON VA	ALU	E ADE	PED C	OURSE			
Title:			"Safety in	cons	structi	on"				
			Mr.K. KINS	ELY I	MAXW	EL,				
Resource	Person:		Surveyor,							
			Veeranar Con	structi	on,					
			Puthukottai							
Date of c	onduct fro	om:	08.02.21		To:	12.02	2.21	Duration:	30 F	lours
Organize	d Departr	nent:	CIVIL ENGI	NEE	RING					
Participar	nt Year:	2, 3, 4	Semester:	OD	D		No. of Stu	dents Registe	red:	25
Venue:	https://r	neet.go	ogle.com/mnd-tr	gm-g	b(Goog	ıle mee	t link)			
Outco			lded Course (V					rse Students	can a	blo t
• In	ipact kno	wledge	on the usage of	f basi	c surve	eying i	nstruments	se, stauchts	сан а	טוכ ננ

- ents in surveying operation
- Abel to use total station and electromagnetic distance measurement instruments
- Able to prepare planimetric maps

Assessment Process

Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted.

Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks).

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Read Manikandam, Trichy-629 012.

HoD/CIVIL



Department of Computer Science and Engineering Academic Year 2020-2021 -ODD Semester

11.12.2020

DEPARTMENT CIRCULAR

Department of Computer Science and Engineering and IQAC of IGCE in association with Mind Soft Technologies, is going to organize Value Added Course for UG II,III,IV and PG I year students on "Machine Learning With R" from 14.12.2020 to 18.12.2020. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail

1.Mr.Eswaran
Project Manager
Mind Soft Technologies,
Bangalore

Venue

Google Meet: meet.google.com

HOD/CSE

Ce:

• Principal Table

- IQAC Co-Ordinator
- · HoD/CSE
- Class In charges II, III & IV and PG I Year
- II, III & IV-Year and PG I CSE Students
- Office File
- NoticeBoard

(D.:

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Value Added Course

"Machine Learning with R" SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Machine Learning and R Basics	3	14.12.2020
2	Data Preprocessing and Exploratory Data Analysis (EDA) in R	3	14.12.2020
3	Supervised Learning Algorithms	3	15.12.2020
4	Unsupervised Learning Algorithms	3	15.12.2020
5	Advanced Topics in Machine Learning with R	3	16.12.2020
6	Decision Trees and Random Forest	3	16.12.2020
7	Clustering (K-Means and Hierarchical)	3	17.12.2020
8	Principal Component Analysis (PCA)	3	17.12.2020
9	Neural Networks with the keras Package	3	18.12.2020
10	Real-world applications of machine learning with R	3	18.12.2020
	Exam	1	18.12.2020
	Total Hours(Excluding Exam)	30	is described

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering



<u> </u>	Photos (1900)	TAN HARRY MAIL .					Anna Univers	ity, Ch	ennai
			Repo	rt On V	/alu	e Added	Course	Maridinaus (Indo-)abbum b	etalisationistis et espera
Title	**************************************	M	ACHINE LE	ARNIN	G W	ITH R	handlighter and the state of th	· ····································	Militari de propieta de la complementa
Resour	ce Person:	Mr. Mir	Eswaran, Proje nd Soft Techno ngalore	ect Mana		***************************************		Self-republic starting	standardinatelesekeesekeesekeesekeesekeesekeesekees
Date of	conduct fr		14.12.2020	To:	18.1	2.2020	Duration:	30 F	able to an 75% in
Organiz	zed Departn	nent	COMPUTER	SCIENC	E AN	D ENGIN	EERING	Provide a charge	rado padades este en que argua
Participa	ant	CSE	IV,III,II and	PG I Yea	r	No. of St	udents Regist	ered	82
Venue:	online m	ode (Google Meet: m	eet.googl	e com				
Outcom	e of Value	Add	ed Course (VA	C): At th	e end	of the Cou	v to 18.12.20	20	The Market State of the State o
to compress migrature account.			Asse	essment	Proce	222		indica singge program	
	core = (0.5)	DIO 10	ring more than receive the cert endance in VAC	IIICATE TO	the V	A C OCCURRAN	annulus st. I		
X-2	74.								

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Department of Electrical and Electronics Engineering Academic Year 2020-2021 -Odd Semester

04.02.2021

DEPARTMENT CIRCULAR

Department of Electrical and Electronics Engineering and IQAC of IGCE in association with Sri Sai Software is going to organize Value Added Course for all Second ,Third and Final year students on "IoT-Raspberry Pi" from 08.02.2021 to 12.02.2021. Certificates will be issued to the eligible participants at the end of the Course. This training will be conducted through online mode.

Resource Person Detail	1. M.Suresh, Design Engineer, Sri Sai Software.
Online Mode	Google Meet

Gr. Ma latter HOD/EEE PMd: pal

Cc:

- Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year EEE Students
- · Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Value Added Course

"IoT-Raspberry Pi"

SYLLABUS

	TOPIC COVERED	DURATION (in hours)	DATE
S.NO	TOPIC COVERGE	3	08.02.2021
1	Introduction to IoT	3	08.02.2021
2	Basics of Networking, Communication Protocols	3	09.02.2021
3	Sensor Networks	3	09.02.2021
4	Machine-to-Machine Communications Machine-to-Machine Communication to Arduino	3	10.02.2021
5	Interoperability in IoT, Introduction to Arduino Programming Integration of Sensors and Actuators with Arduino	3	10.02.2021
6	Introduction to Python programming,		11.02.2021
7	Introduction to Raspberry Pi, Implementation of IoT with Raspberry Pi	3	
	SDN for IoT (contd), Data Handling and Analytics,	3	11.02.202
8	Cloud Computing Fog Computing, Smart Cities and Smart Homes	3	12.02.202
9	Fog Computing, Smart Cities and Industrial IoT.	The second section and the section and the second section and the second section and the second section and the section and the second section and the section and the second section and the	10.00.000
10	Connected Vehicles, Smart Grid, Industrial IoT, Industrial IoT (contd), Case Study: Agriculture, Healthcare, Activity Monitor	3	12.02.202
	Heathers, 22	1	12.02.202
11	Exam Total Hours (Excluding Test	30	

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

VAC Coordinator

Gr. Ma lathi HOD/EEE



COLLEGE OF ENGINEERING
Madural Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, Newbelhi & Affiliated to Anna University, Chennal

	n dispressor state to the		Report on Value Ad				****
Title:	"ToT-R	aspb	erry Pi "				
Resource Person: M.Suresh, Design Engineer, Sri Sai Software.				Siva Subrama Sai Software	pa , som 14	t ya openegat dollare best are start sucherseen	
Date of co	onduct fro	m:	00.02.2021)2.2021		30]	Hours
Organized	i Departn	ient	Electrical and Electronics I	ngineerin	g		beautiful and a state of the st
Participan		2,3,4	1	No. of Stud	ents Registere	ed:	46
 Desc Build Ider Build Abl 	online ome of V cribe the od a protol ntify diffe dd a protoc e to design	alue Aconce conce ype u grent t type	M Simulation Lab, Ground for Google Meet: meet.google.co. Added Course (VAC): At the pts of IoT along with its application and Google Arduino Uno. The securing more than 70% on the continue for the continue f	end of the ations.	course, Studition Protocol	s.	
attendTotal	ance is e. Score = (narks)	0.5 */	e to receive the certificate for the Attendance in VAC out of 100	percentage	:+ 0.5 *Test r	mark	in VAC out of

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Department of Electronics and Communication Engineering

Academic Year 2020-2021 -Odd Semester

25.01.2021

DEPARTMENT CIRCULAR

Department of Electronics and Communication Engineering and IQAC of IGCE in association with Galwin Technology, is going to organize Value Added Course for all Second, Third and Final year students on "ARDUINO PROGRAMMING" from 01.02.2021 to 05.02.2021. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in online mode.

Resource Person Detail

Mr.K.C.Tamil Vendhan, The Human Resource Manager, Galwin Technology, Trichy

Venue

Online Mode Link:

https://us05web.zoom.us/j/2423859769?pwd=K3JZ d1JiS3FqTk1kenJzWStNO0NDQT09

Hiwans

HOD/ECE

PRINCIPAL

Cc:

- · Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year ECE Students
- · Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Value Added Course

"ARDUINO PROGRAMMING"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Embedded systems, Introduction to Arduino programming	3	01.02.2021
2	Basic Components, Introduction to the Concept of IoT Devices	3	01.02.2021
3	Types of Arduino, Arduino Toolchain	3	02.02.2021
4	Arduino Programming Structure -Sketches - Pins	3	02.02.2021
5	Input/Output From Pins Using Sketches	3	03.02.2021
6	Introduction to Arduino Shields	3	03.02.2021
7	Integration of Sensors and Actuators with Arduino	3	04.02.2021
8	IoT configurations, General Hardware Interfacings:	3	04.02.2021
9	Work with LED Controlled by Switch/potentiometer, 7 segment displays. How to connect relays andservomotors to ARDUINO Board.	3	05.02.2021
10	Project Based on embedded system design using Arduino board.	3	05.02.2021
11	Exam	1	05.02.2021
	Total Hours (Excluding Exam)	30	the service maps by one p.

Dur_

VAC Coordinator

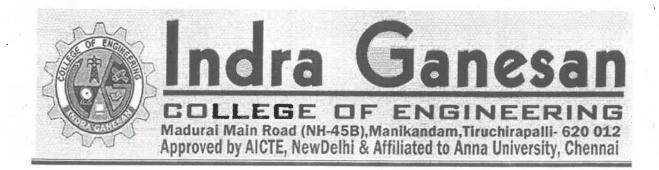
HOD/ECE

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

THE STREET STREET, STR			REPORT ON	VALU:	E ADD	ED COUI	RSE		
Title:	«A	RDUI	NO PROGRAMIN	IING"	outa.	Milliagelang	Pr Vocabilità de gallata (g	wage.	•00
Resource		Trich	.C.TamilVendhan, Iuman Resource Man in Technology,	ager,		**************************************	one and the second seco		
Date of co			01.02.2021	To:		2.2021	Duration:	30 F	Hours
Organized	d Departm	nent:	Electronics and Co	ommun	ication	Engineeri	ng		Men
Participan	t Year:	2,3,4	Stron 1	-resis decide		No. of St	udents Registe	red:	53
Outcome	of Value	Adde	eb.zoom.us/j/24238 d Course (VAC): A	At the e	nd of th	ie Course,	Students can	be ab	
 Ex Ex Ex 	cplain the now the taplain the now the c	e basic types concept oncept	embedded system c concepts of IoT of Arduino and co ept of sketches an ts of Aduino shields t based on embed	devices ncepts d pins i s, Senso	of Ard in Ardı rs and A	uino Tool uino progr Actuators	chain ramming struc	cture	:
	***************************************	- Miller and Annie of the Annie	Asse	ssment	Proces	S			
attendan	ce is elig	ible to	ring more than 70 receive the certificand	ite for th	ne VAC	course co	nducted		
OLW VAC Coord	dinator			HoD/E	RWE	mes	Bha) na haiseannaga i	Prin	pal

Dr. G. Balakrishpan, M.E., Ph.D.,
Principal



Department of Mechanical Engineering

Academic Year 2020-2021 -ODD Semester

Date: 02.12.2020

DEPARTMENT CIRCULAR

Department of Mechanical Engineering of IGCE association with "CADD Centre, Trichy" is going to organize Value Added Course for all II and III, IV year students on "Mater CAM" from 07.12.2020 to 11.12.2020. Certificates will be issued to the eligible participants at the end of the Course

Resource Person Details	1. Mr. Balaji
	Trainer
	CADD centre
	Trichy
	2. Mr. Jaya kumar
	Trainer
	CADD centre
1	Trichy
Venue	online mode
-	https://meet.google.com/zcm-djnn-mdt.

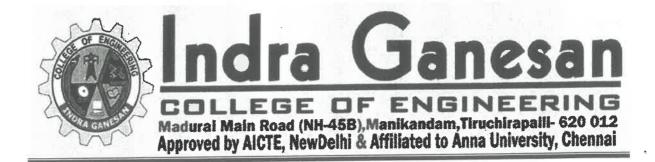
нор/Месн

Cc:

- · Principal office
- IQAC Coordinator
- Class In charges II, III & IV Year
- Class Rooms II, III & IV Year
- Office File
- Notice Board

PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D., Principal



Value Added Course

"Master CAM"

SYLLABUS

s.no	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to MASTERCAM	3	07.12.2020
2	Basic concepts of CAM (cutters, machines job setup, etc)	3	07.12.2020
3	Creating 2D drawings tool paths	3	08.12.2020
4	Creating 2D tool paths	3	08.12.2020
5	Creating 3D models (Solid)	3	09.12.2020
6	Creating 3D models (Surface)	3	09.12.2020
7	Creating 3D models tool paths	3	10.12.2020
8	Transforming tool paths	3	10.12.2020
9	Converting Solid to Surface, Surface to Solid,	3	11.12.2020
10	Boolean operations	3	11.12.2020
11	Test	1	11.12.2020
	Total Hours (Excluding Assessment)	30	

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madural Main Road Manikandam, Trichy-620 012. HD/MECH

	Report on '	Y alter	c ziuucu	Cours			
Title:	Master CAM						
	Mr. Jayakumar,	Mr. E	Balaji,				
Resource Person:	Trainer,						
	CADD centre,				y =		
	Trichy		•				
Date of conduct from:	07.12.2020	To:	11.12.2020	Dı	uration:	30 H	lours
Organized Department:	MECHANICA	L ENC	GINEERING	G			
Participant Year:	4		No.	of Student	ts Registe	ered:	37
Venue:	Online mode - ht				. 14		

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Know to explain the MASTERCAM 2D drawings & 3D models.
- Know how to create 2D & 3D tool paths.
- Students are expected to learn the special operations like hole milling, slot milling and helical milling tool paths.
- Know to recall Assembling with Extrude, Revolve, Fillet, Chamfer, Sweep, Thicken, Ruled They receive required training on Animating Assemblies, Surface modeling tools.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

нормеси

Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Department of Information Technology

Academic Year 2020-2021 -ODD Semester

03.10.2020

DEPARTMENT CIRCULAR

Department of Information Technology and IQAC of IGCE in association with Izone Technologies is going to organize Value Added Course for all Second, Third and Final year students on "F&B Development in Full Stack" from 05.10.2020 to 09.10.2020 Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail	1.Mr.R.Selvaraj Project Manager Izone Technologies
Venue	IT Seminar Hall, IGCE

leuf HOD/IT Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

PRINCIPAL

Cc:

- Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year IT Students
- Office File
- Notice Board



Value Added Course

"F&B Development in Full Stack"

SYLLABUS

s.no	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to HTML	3	05.10.2020
2	CSS Margins, Padding, and Borders	3	05.10.2020
3	Applying JavaScript (internal and external)	3	06.10.2020
4	Introduction to Document and Window	3	06.10.2020
5	Object Python Installation & Configuration	3	07.10.2020
6	Data Types and Num Type Conversion	3	07.10.2020
	Redux and Redux Saga, Immutable	3	08.10.2020
8	Rendering List and Portals	3	08.10.2020
9	Node js Command Utilities Node js Modules	3	09.10.2020
10	Migration of Data into MongoDB	2	09.10.2020
11	Exam	1	09.10.2020
11	Total Hours (Excluding Exam)	30	u#

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Leuf HOD/IT



Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

REPORT	ONX	VALIE	ADDED	COURSE
TOTAL OTAL	VII I	7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	~ 1/1/1/1/	

Title:

"F&B Development in Full Stack"

Resource Person:

Mr.R.Selvarai

Project Manager Izone Technologies

Date of conduct from:

05.10.2020

To: 09.10.2020

Duration:

30 Hours

Organized Department:

Information Technology

Participant Year:

2,3,4

No. of Students Registered:

63

Venue:

IT Seminar Hall https://ncsu.zoom.us/j/354136101

Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to

- Full-stack development refers to the method of applying both front-end and back development protocols.
- Built to educate and equip students and any interested person with skills, which will help them get a
 job and do well with it.
- Bridge that gap and provide practical tools to equip students and professionals for the everdemanding job industry.
- By the end of the program participants will be become an industry-ready engineer who can be readily deployed in a project.
- Enable participants to develop a complete web application from the scratch that includes
 Front-end, Backend and Data-exchange technologies.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% inattendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

Out HoD/I

Principal





Madurai Main Road (NH-45B), Manikandern, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Arem University, Cheminal NAAC Accredited, 2(F) States Institution by UGC

Department of Science and Humanities Academic Year 2020-2021 -Odd Semester

3.12.2020

DEPARTMENT CIRCULAR

Department of Science and Humanities and IQAC of IGCE is going to organize Value Added Course for all first year students on "Climate change" from 7.12.2020 to 11.12.2020. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail	 Dr. R. Boobalan Assistant professor of chemistry, Indraganesan college of engineering, Trichy. Mrs. A.Ramya Assistant professor of chemistry, Indraganesan college of engineering, Trichy.
Venue	Google meet https://meet.google.com/ygi-fvdr-sun

L. Eodela HOD/S&H

PRINCIPAL

Cc:

- Principal office
- IQAC Co-Ordinator
- HoD/S&H
- Class In charges I-Year
- I-Year S&H Students
- Office File
- NoticeBoard

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Value Added Course

"Climate change"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to climate change	3	7.12.2020
2	Greenhouses gases	3	7.12.2020
3	The global energy balance	3	8.12.2020
4	The greenhouse effect	3	8.012.2020
5	Ocean atmosphere interactions	3	9.12.2020
6	Atmosphere circulation	3	9.12.2020
7	The study of past climates	3	10.12.2020
8	The role of biological activities	3	10.12.2020
9	Climate models	3	11.12.2020
10	The impact of global warming	3	11.12.2020
11	Exam	1	11.12.2020
	Total Hours (Excluding exam)	30	-

Wanthomaseln' VAC Coordinator

HoD/S&H

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Madurai Main Road (NH-458), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Class NAAC Accredited, 2(F) Status Institution by UGC

Title:	"Clim	ate cl	hange"					
Resource	Person:	Ass che Ind	R. Boobalan sistant professor o mistry, raganesan college ineering, Trichy.				professor o	f chemistry, of engineerin
Date of co	onduct fro	m:	7.12.2020	To:	11.12	2.2020	Duration:	30 Hours
Organized	l Departn	ent:	SCIENCE AND	HUM	ANIT	IES		
Participan	t Year:	1				No. of Stu Registered		145
Vanuar	Google	meet						
Venue:	https://i	://meet.google.com/ygi-fvdr-sun						

- 1. Understand the scientific evidence for Climate Change and Global warming, by means of a bibliographic review.
- 2. Analyze the evidence for Climate Change on a local or global, short, medium or long-term scale through analysis and discussion of scientific articles.
- 3. Discuss the problem, its effects and possible solutions through a guided debate and discussion.
- 4. Communicate the information about Climate Change in a technical and efficient way.

Assessment Process

- Students, who are securing more than 60% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

S. Boekelan Principal

Dr. G. Balakrishnan, M.E., Ph.D., **Principal**



DEPARTMENT OF MANAGEMENT STUDIES

Academic Year 2020-21 - Odd Semester

Ref: IGCE/MBA/2020-21/VAC/01

04.10.2020

DEPARTMENT CIRCULAR

Department of Management Studies and IQAC, IGCE in association with Trytax Professionals organizing Value Added Course for all Final year students on "Advanced Accounting Package with GST" from 18.10.2020 to 22.10.2020. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Interested students can register their names with the VAC Co-ordinator Mrs.Nisha Martina L for this program on or before 13th October 2021.

Resource Person:	Mr.Sudharsan / MD
	Trytax Professionals Trichy
Google Meet Link	https://meet.google.com/aih-cpnt-wcq

HOD/MBA

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Cc:

- Principal Office
- IQAC Co-Ordinator
- HoD/ MBA
- II -Year MBA Students
- · Notice Board



Value Added Course on "Advanced Accounting Package with GST"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	What is tax? / Source of power to tax		
2	Historical developments leading to GST / Global perspective on GST	3	18/10/2021
3	Role of GST Council / Migration to GST	The desired by the party of the second of th	18/10/2021
4	Registration under GST - An introduction / New registration	3	19/10/2021 19/10/2021
5	Amendment of registration	3	
6	Concept of supply under GST	3	20/10/2021
7	Rate slabs / Accounts and records in GST	T - Domingolin language transport	20/10/2021
8	TDS under GST / Tax collection at source	3	21/10/2021
^	Transition provisions under GST / Imports under	3	21/10/2021
9	G51	3	22/10/2021
10	Returns / GST Implementation issues	3	
	Assessment	3	22/10/2021
	on gardinasticopies delete to deposition and the second contract of	1	22/10/2021
****	Total Hours	30	

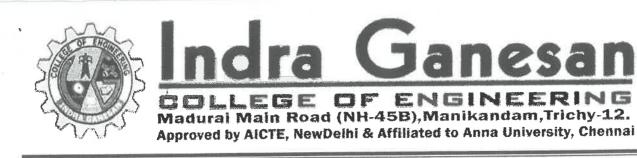
B The HOD/MBA

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

			Report on	Valu	e Ad	ded Co	urse		
Title:	Advan	ced A	ccounting Packa	ge with	GST				
Resource	Person:		Sudharsan / MD ax Professionals hy	and the second s	- appropriate and the second and and an arrange and and an arrange and an arrange and an arrange and an arrange		Harri Abella Care		
Date of co	onduct fro	om:	18/10/2021	To:	22/1	0/2021	Duration:	30 H	lours
Organized	d Departn	nent:	MANAGEME	NT ST	UDIE	S	The state of the s	independent territorial resident	an in the contract of the cont
Participan	nt Year:	2 Ye	ar MBA	ALL MAN	-syrenia tolkin solvaniski	No. of St	udents Registe	ered:	28
Venue:	MBA Se	mina	r Hall		ACTION LINEAR MARKET LINEAR PROPERTY AND ACTION ACTION AND ACTION AND ACTION AND ACTION ACTION AND ACTION ACTION AND ACTION ACTION ACTION ACTION AND ACTION ACT		Made March (1994 - 1994	**************************************	Angeletin and produce the second seco
Outcom	e of Val	ue Ad	ded Course (VA	C): At	the en	d of the C	Course, Stud	ents c	an able to
UnderList ar	stand the	develo y what	f taxation and taxat opment and differe t instruments are ta of implementation	nt sub-s xable ur	tructure		ST.		
minesia tri ingigi ing suking minenimum .	. Andrew	\$ 	Ass	essmen	t Proc	ess	ddaedd ddaedd o lywelu meilol, meilol, meilol, o yn eilol, ym eilol, godd ei dol	- LANGE TO THE TANK OF THE PARTY OF THE PART	
attenda	nce is elig core = (0.	gible t	uring more than o receive the certiful tendance in VAC of	icate for	the VA	AC course of	conducted		
	G-J Coordi	nator		Ho	3 T D/MB	A	Pri	ucipa	à l

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Department of CIVIL ENGINEERING

Academic Year 2020-2021 - Even Semester

DATE: 04.08.2021

Department of Civil Engineering and IQAC of IGCE in association with **TM Design** & Constructions is going to organize Value Added Course for all Second, Third and Final year students on "BIM- Building Information and Modeling" from 09.08.21 to 13.08.21, though, https://meet.google.com/ssd-tdmvs-gbm (Google meet link). Certificates will be issued to the eligible participants at the end of the Course.

	Mr.M.Mohamedanas,
	Assistant Engineer,
	TM Design & Constructions
Resource Person Detail	
Venue	https://meet.google.com/ssd-tdmvs-
	gbm(Google Meet)

HOD/CIVIL

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Cc:

- Principal Table
- IQAC Co-Ordinator
- HoD/Civil
- Class In charges II, III & IV-Year
- II, III & IV-Year Civil Students
- Office File
- Notice Board



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Value Added Course on "BIM-Building Information Technology"

SYLLABUS

		DURATION	DATE
s.no	TOPIC COVERED	(in hours)	
1	Surveying and introduction in surveying	3	09-08-2021
2	Plane and geodetic surveying	3	09-08-2021
3	Principles of surveying	3	10-08-2021
4	Advanced technology in surveying	3	11-08-2021
5	Drone technology	3	11-08-2021
6	Lidar technology	3	12-08-2021
7	Drone to map software	3	12-08-2021
8	MicroStation software	3	12-08-2021
9	Arc GIS software	3	13-08-2021
10	GPS surveying (Excluding Exam)	3	13-08-202
	Total Hours	30	-

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D., Principal



COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

	REI	PORT ON VAI	LUE	ADDI	ED CO	URSE			
Title:		"Safety in c	const	ructio	n"				
Resource Person:		Mr.M.Moham							
		Assistant Engi FM Design &			tions			*	
Date of conduct fro	m:	09.08.21		To:	13.08	.21	Duration:	30 H	ours
Organized Departn	nent:	CIVIL ENGL	NEE	RING					
Participant Year:	2, 3, 4	Semester:	ODD			No. of Students Registered: 2		25	
Venue: https://	meet o	oogle.com/ssd-	tdmv	rs-gbm	(Googl	e meet link)			
Outcome of Va	lue-Ac	Ided Course (V	AC)	: At th	ne end	of the Cour	se, Students	can a	ble to
- Impact kno	wledge	on the usage of	f bas	ic surv	eying 1	nstruments			
. A 1-1 a to 1100	Javalli	ng instruments	in su	rvevin	g opera	mon			
Abel to use	total s	tation and elect	roma	gnetic	distanc	e measurem	ent instrume	nts	
Able to pre	pare pl	animetric maps							
		A	ssess	sment	Proces	S			
Students, who are	securin	g more than 70	% 01	n total	score a	nd secured r	nore than 75°	% in a	ttendanc

Dr. G. Balakrishnan, M.E., Ph.D.,

Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100

is eligible to receive the certificate for the VAC course conducted.

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Read Manikandam, Trichy 620 812.

HoĎ/CIVIL

VAC Coordinator

marks).



Indra Ganesan COLLEGE OF ENGINEERING Mediral Mean Road (NH-458), Manificanders, Tiruchirappeals - 620 012 Approxically Afford, New Dollar, S. Affiliated on Annua University, Chromose AASS, Secredited, 262-3 States Furthering on the Con-



Department of Computer Science & Engineering

Academic Year 2020-2021 - Even Semester

12.06.2021

DEPARTMENT CIRCULAR

Department of Computer Science & Engineering and IQAC of IGCE in association with AXIS V CREATIVES PVT LTD, is going to organize Value Added Course for UG II,III,IV and PG I year students on "BIG DATA ANALYTICS" from 14.06.2021 to 18.06.2021. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail 1.MR.VIVEK
AXIS V CREATIVES PVT LTD
CHENNAI

Venue

Google Meet: meet.google.com

HOD/CSE

PRINCIPAL

Ce:

- Principal Table
- IQAC Co-Ordinator
- Class In charges II, III & IV and PG I Year
- II, III & IV-Year and PG I CSE Students
- · Office File
- · NoticeBoard

Dr. G. Balakrishnan, M.E., Ph.D.
Principal



Indra Ganesan

Medical Main Road (NH-458), Manitandam, Truchirappalit - 620 012
Apparised by ATCTR NewtOrline Affiliated to Annu University, Clicanal
SAAL Secretified, 2(1) Status Institution by Left.



Value Added Course

"Big Data Analytics"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Big Data	3	14.06.2021
2	Data Storage and Management	3	14.06.2021
3	Data Processing Frameworks	3	15.06.2021
4	Data Cleaning and Preprocessing	3	15.06.2021
5	Machine Learning for Big Data	3	16.06.2021
6	Data Visualization	3	16.06.2021
7	Big Data Analytics in Business	3	17.06.2021
8	Privacy and Ethical Considerations	3	17.06.2021
9	Real-Time Analytics	3	18.06.2021
10	Big Data Security	3	18.06.2021
11	Exam	1	18.06.2021
The state of the s	TOTAL HOURS(Excluding Exam)	30	Менения выполнице на предус

A clauf VAC Coordinator

D- Rudd HOD/CSE Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madural Main Road
Mankandam, Trichy-620 012.



Indra Ganesan



Madural Main Road (NH-45B), Manifoldium, Tiruchirappalle 620 012
Approved by AICTE Procedures, Attitude to American Coherent
NAAC Accredited, 2493 Status Institution by U.C.

	Report On Value Added Course							
Title	itle BIG DATA ANALYTICS							
Resource	Α	Mr.Vivek, Project XIS V CREATIV HENNAI			***************************************	dentrial training of the second second second second		
Date of co	nduct from	: 14.06.2021	To:	18.06.2021	Duration:	30 Hours		
Organized	Departmer	COMPUTER	SCIENC	E AND ENGI	NEERING	de and and state of Michael and Michael and Michael and Annual and		
Participant	C	SE IV,III ,II and	IV,III,II and PG I Year No. of Students Registered 82					
Venue:	online mod	e Google Meet: n	reet.googl	e.com/14.06.20	021to 18.06.202	21		
		dded Course (VA						
LETTER REPORT FORCE SHARES AND		es, Animations, Ro	essment	Process	imanitary			
attendand	ore = $(0.5 *)$	ecuring more that to receive the cer Attendance in VA	rtificate for	the VAC cou	rse conducted			
N. Li	tuuf dinator		Д - ↓	lidd		Principal		

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.





Medural Main Road (NH-45B), Menikandam, Tiruchirappali - 620 012 Appaywed by AICTE, NewDelhi & Affiliated to Augus University, Cheanal NAAC Accredited, 2(F) States Institution by UGC

Department of Electrical and Electronics Engineering Academic Year 2020-2021 -Even Semester

04.08.2021

DEPARTMENT CIRCULAR

Department of Electrical and Electronics Engineering and IQAC of IGCE in association with Micro win Automation is going to organize Value Added Course for all Second, Third and Final year students on "Solar Photovoltaic System Design" from 09.08.2021 to 13.08.2021. Certificates will be issued to the eligible participants at the end of the Course. This training will be conducted through online mode.

Resource Person Detail

S.Sridhar,
 Trainer,
 Micro win Automation,
 Trichy-621216

Online Mode

Google Meet

Gr. Ma latta: HOD/EEE Principal

Cc:

- Principal Table
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year EEE Students
- Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Medurai Main Road (NH-45B), Manikandam, Truchirappali - 620 012
Approved by AICTE, NewDeltri & Affiliated to Anna University Chemosi
NAAC Accredited, 2(E) States Institution by UGC

Value Added Course

"Solar Photo Voltaic System Design"

SYLLABUS

s.no	TOPIC COVERED	DURATION (in hours)	DATE
1	The PV Cell	3	09.08.2021
2	Series And Parallel Interconnection	3	09.08.2021
3	Energy From Sun	3	10.08.2021
****	Incident Energy Estimation	3	10.08.2021
4	Sizing PV	3	11.08.2021
5	Maximum Power Point Tracking	3	11.08.2021
6	MPPT Algorithms	3	12.08.2021
7	PV-Battery Interfaces	3	12.08.2021
9	Peltier Cooling PV And Water Pumping	3	13.08.2021
10	PV-Grid Interface-I, Life Cycle Costing	3	13.08.202
11	Exam	1	13.08.202
11	Total Hours (Excluding test)	30	-

Jehry Ferrer VAC Coordinator Gr. Ma lattui

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



VAC Coordinator



Principal

Madural Main Road (NH-45B), Manikandam, Tiruchirappali - 620 012
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NAAC Accredited, 2(F) States Institution by UGC

<u></u>			Malle Cyctom	Design"			ماميدين. -	A STATE OF THE STA	Star Print Application of State of Stat
Title:	"Solar	Photo Voltaic System Design"							
Mi		Mic	ridhar, Trainer, ro win Automa chy-621216	tion,	manded waters on the or				anner y en
Date of co	nduct fro	m:	09.08.2021	То:	13.08	.2021	Duration:	30 H	ours
Organized	Departm	ent:	Electrical and	Electron	ics Eng	ineering		-	overando de la como
Participant Year: 2		2,3,4				No. of S Registe	Students red:		44
Venue:			Google Meet: n					ents c	an able to
Ou	tcome of	Value	Added Course	(VAC): P	At the c	nd or env	, Coursey 25 car	***************************************	And the second s
 Devel Design 	op unders n and sim	tandır ulate	nsive technologic ng on the PV plan a PV power plan ntation, operation nomic-environm	t using sof	ftware to ntenance	ool. e. e evaluati			
Studentis elig Total marks	ible to red Score = (are sec ceive t	curing more than the certificate for ttendance in VA	n 70% on the VAC C out of 1	total se course	core and conducte entage +	secured more to d 0.5 *Test mark	than 7:	5% in attendar

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Gr. Ma batta



Department of Electronics and Communication Engineering

Academic Year 2020-2021 -EVEN Semester

26.07.2021

DEPARTMENT CIRCULAR

Department of Electronics and Communication Engineering and IQAC of IGCE in association with Hitakey Infosys, is going to organize Value Added Course for all Second, Third and Final year students on "PLC & INDUSTRIAL NETWORKING" from 02.08.2021 to 06.08.2021. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in online mode.

Resource Person Detail	Mrs.Shalom Jerlin, Technical Head, Hitakey Infosys, Trichy
Venue	Online Mode https://us05web.zoom.us/j/2423859769?pwd=K3JZ d1JiS3FqTk1kenJzWStNS0NDQT09

HOD/ECE

Cc:

- · Principal office
- IQAC Co-ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year ECE Students
- Office File
- Notice Board

PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



Value Added Course

"PLC & INDUSTRIAL NETWORKING" <u>SYLLABUS</u>

s.no	TOPIC COVERED	DURATION (in hours)	DATE 02.08.2021	
1	Introduction to Logic Circuit: Logic Gates, Numbering System.	3		
2	Interfacing Peripheral Chips: F.F., Registers, Tristate Buffers, Latches, Decoders, Memory.	3	02.08.2021	
3	Introduction to PLC: Microprocessor, I/OPorts, Isolation, Filters, Drivers, Microcontrollers/DSP, PLC/DDC.	3	03.08.2021	
4	PLC Construction: What is a PLC, Why preferring PLC, PLC Memories, PLC I/O,PLC Programming, introduction to PLC Ladder, PLC Special I/O, PLC Types.	3	03.08.2021	
5	PLC Basic Instructions: PLC Ladder Language, Ladder/Instruction List, PLC Basic Instructions, Basic Examples (Start Stop Rung, Entry/Reset Rung).	3	04.08.2021	
6	Process Control Problems Classification: Types of Process Control, Interlock controldefinition, Sequential control definition, Random control definition, Interlockcontrol examples.	3	04.08.2021	
7	Timers and Counters: Timers, Counters, Examples.	3	05.08.2021	
8	Word and Branching Instruction: Data Handling Instruction, Arithmetic Instruction, PLC Internal Facilities, LogicInstruction, I/O Instruction, Program Control Instruction.	3	05.08.2021	
9	Sensors, Switches, Solid State Relays, Sequential Process Control: Sequential control examples.	3	06.08.2021	
Minapas es des	Application Examples of Sequential Industrial Problem, Application Examples of Production Lines	3	06.08.2021	
1	Exam	1	06.08.2021	
	Total Hours (Excluding Exam)	30	de la constitución de la constit	

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. IXIBanene.

HOD/ECE



			REPORT ON	VALU	E ADE	ED COU	URSE	
Title:	41	"PLC & INDUSTRIAL NETWORKING"						
Resource	Person:	Mr	s. Shalom Jerli	n,	nyddaddadaa in wydgelau	4-45-1999-1999-1999-1999-1999-1999-1999-		
		Tec	chnical head,					
~ ~		Tri	akey Infosys, chy					
Date of co	nduct fr	om:	02.08.2021	To:	06.08	3.2021	Duration:	30 Hours
Organized	Departi	nent:	Electronics and	Commu	nicatio	n Engine	ering	
Participan	- metroscopera una	2,3,4	Name of the same	Watth days a	* + imduse	T	tudents Regist	ered: 53
	Online https://i		link : eb.zoom.us/j/24238	59769?	pwd=k	K3JZd1Ji	S3FqTk1kenJ	zWStNS0ND(
		Nove	d Course (VAC): A				e, Students car	be able to
• Kr	iow abo	out the	industrial periphe	ral chip	s, PLC	C/DDC	_	
* Ex	plain th C Basic	e PLC	nemories, PLC pro Basic Instructions: tions	PLC La	ing, P idder L	LC ladde anguage,	er and PLC tyl Ladder/Instruc	pes tion List,
del	muon, r	candom	of Process Control, a control definition					
msi	ruction,	PLCIN	and Branching Inst ternal Facilities, Lo	gic Inst	ruction	. I/O Instr	uction	
• De	mples o	pplicat fProduc	tion Examples of Section Lines			***************************************	em, Applicatio	n
	*****	***************************************	Asses	ssment]	Process	<u> </u>		
Students,	who ar	e secu	ring more than 70°	% on to	tal sco	re and se	cured more th	an 75% in
attendance	e is elig	ible to	receive the certifica	te for th	e VAC	course co	onducted	
Total Sco marks)	re = (0.5	*Atter	ndance in VAC out	of 100 p	ercent	age + 0.5	*Test mark in	VAC out of 10
07-4	/ 4491-07000		sherminoone,	-1/4. ////			MA	1.
DIM			À.	1001	0 /			

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



Indra Ganesan

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Department of Mechanical Engineering

Academic Year 2020-2021 - Even Semester

Date: 02.06.2021

DEPARTMENT CIRCULAR

Department of Mechanical Engineering and IQAC of IGCE in Association with CADD centre, Trichy is going to organize Value added course for all III, IV Year students on "Application of NX CAD" From 07.06.2021 to 11.06.2021, certificates will be issued to be eligible participants at the end of the course.

- Hilling and the second	1.Mr.Balaji
	Trainer
	CADD Centre
Resource Person Details	Trichy
	2.Mr.Sundaramoorthi
	Trainer
	CADD Centre
	Trichy
Venue	GOOGLE MEET
	Online mode – meet.google.com/hiw-apof-uic

HOP/MECH

Cc:

- · Principal office
- IQAC Co-Ordinator
- · Mechanical Faculties Staff Room
- III & IV-Year MECH Students class room
- Office File
- · Notice Board.

PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.





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NAAC Accredited, 2(F) Status Institution by UGC



Value Added Course

"Application of NX CAD"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction of NX-CAD	3	07.06.2021
2	Basic of NX -CAD and its application.	3	07.06.2021
3	Creating fundamentals curves	3	08.06.2021
4	Creating dimensions, notes and labels	3	08.06.2021
5	Creating and editing curves	3	09.06.2021
6	Editing free form features	3	09.06.2021
7	Plotting drawings	3	10.06.2021
8	Basic assembly concepts	3	10.06.2021
9	Creating assembly and positioning assembly	5	11.06.2021
12	Exam	1	11.06.2021
	Total Hours	30	

(1.) EER sulein.
V&C Coordinator

HoD/MECHANICAL

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Madurai Main Road (NH-458), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, New Delhi & Allifanci to Anna University, Obernot NAAC Accredited, I(I) Scalas factication by UGC



REPORT ON VALUE ADDED COURSE

Title:

"Application of NX-CAD"

Resource Person1:

Mr.Balaji

Trainer

CADD centre

Trichy

Mr.Sundara Moorthi Trainer

CADD centre

Trichy

Date of conduct from:

07.06.2021

To:

11.06.2021

Duration:

30 Hours

Organized Department:

Mechanical Engineering

Participant Year:

3.4

No. of Students Registered:

Venue:

GOOGLE MEET

Online mode - meet.google.com/hiw-apof-uic

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Know to explain the Application of NX CAD 2D drawings & 3D models.
- Know how to create 2D & 3D tool path and curves
- Demonstrate Dimensioning and features of NX CAD
- Students are Learn the software of NX CAD and its application.
- Students can able to draw the modeling and analyse the Unigraphics drawings.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of

Coordinator

Principal

Dr. G. Bala m, M.E., Ph.D., Indra Ganesan College of Engineering Principal IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Department of Information Technology

Academic Year 2020-2021 - EVEN Semester

15.03.2021

DEPARTMENT CIRCULAR

Department of Information Technology and IQAC of IGCE in association with Intellipaat Solution is going to organize Value Added Course for all Second, Third and Final year students on "Handling of Tools and Technology for Disaster" from 16.03.2021 to 20.03.2021 Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail

I.Mr. C. Arunbalaji, Chief Executive Officer Intellipaat Solution, Chennai.

Venue

IT Seminar Hall, IGCE

HOD/IT

Ce:

Principal office

IQAC Co-Ordinator

Class In charges - II, III & IV-Year

• II, III & IV-Year IT Students

Office File

Notice Board

PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Value Added Course

"Handling of Tools and Technology for Disaster"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Disaster	3	16.03.2021
2	Understanding the Concepts and definitions of Disaster	3	16.03,2021
3	Disaster Management Cycle	3	17.03.2021
4	Prevention and Mitigation of Disasters	3	17.03.2021
5	Institutional and Financial Mechanism National Policy on Disaster	3	18.03.2021
6	Disaster Communication System	3	18.03.2021
7	Structural and Non Structural Mitigation of Disasters	3	19.03.2021
8	Characteristics of Image, Image Interpretation and Analysis	3	19.03.2021
9	Operating systems such as DOS, Windows and UNIX	3	20.03.2021
10	Organizing and effective dissemination of information	2	20.03.2021
]	Exam	ī	20.03.2021
	Total Hours (Excluding Exam)	30	an V o V v isin V sin 3

VAC Coordinator

HOD/I

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



REPORT ON VALUE ADDED COURSE

Title:

"Handling of Tools and Technology for Disaster"

Resource Person: Mr. C. Arunbalaii.

Chief Execcutive Officer

Intellipaat Solution, Chennai

Date of conduct from:

16.03.2021

To: 20.03.2021 Duration:

30 Hours

Organized Department : Information Technology

Participant Year: | 2.3.4

No. of Students Registered:

Venue:

IT Seminar Hall Ps://us04web.zoom.us/j/769163291?pwd=aGY2MW

Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to

- Information technology in different disaster management stages such as disaster response, recovery, preparedness and risk reduction.
- Discussions on the use of information technology in each stage are scattered.
- Information technology throughout all disaster management phases is missing.
- Information systems play essential roles in recording, exchanging, and processing information.
- Comprehensive strategy of technology use throughout different disaster management stages, and the necessity of data standards for information sharing among different systems and stakeholders.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% inattendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

Dr. G. Balakrishnan, M.E., Ph.D.,



COLLEGE OF

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012 Approved by AICTE, NewDelhi & Affiliated to Aram University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



Department of Science and Humanities Academic Year 2020-2021 - Even Semester

05.05.2021

DEPARTMENT CIRCULAR

Department of Science and Humanities and IQAC of IGCE in Association with Izone is going to organize Value Added Course for all first year students on "Android app development" from 8.05.2021 to 12.05.2021. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Venue	Google meet https://meet.google.com/dhq-udbv-hv	
Resource Person Detail	2. Mr.N.Kannan Team Leader, Izone,, Chennai	
	1. Mr.M. Selvaraj Managing Director, Izone,, Chennai	

HOD/S&H

Cc:

- · Principal office
- IQAC Co-Ordinator
- HoD/S&H
- Class In charges I-Year
- I-Year S&H Students
- Office File
- Notice Board

Dr. G. Balakrishnan, M.h.,

Principal







Value Added Course

"Android app development"

SYLLABUS

S.NO	TOTTE COVERED	DURATION (in hours)	DATE	
1	JAVA Concepts	3	8.05.2021	
2	DML & DDL Queries in brief	3	8.05.2021	
3	Introduction to Android 3		9.05.2021	
4	Application Structure 3		9.05.2021	
5	Emulator-Android Virtual Device		10.05.2021	
6	Basic UI design 3		10.05.2021	
7	Preferences	3	11.05.2021	
8	Menu	3	11.05.2021	
	Intent	2	12:05.2021	
0	Advance UI design	2	12.05.2021	
2	Exam	1	12.05.2021	
	Total Hours (Excluding exam)	31		

Hamiltonaselis'

S. Booklan HoD/S&H

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal







Title:	" An	Report on Value Added Course Android app development"							
Resource Person:		Mr.M.Selvaraj Managing Director, Izone, Chennai			Mr.N.Kannan Team Leader, Izone, Chennai				
Date of	conduct fr	om:	8.05.2021 To: 12.		12.0	5.2021	Duration:	30 Hours	
Organize	ed Departi	nent:	SCIENCE AN	ND HUM	ANIT	TES			
Participa	nt Year:	1				No. of S Register		145	
Venue:	1	meet.g	google.com/dhq						
· motan	and Com	igure	dded Course (V Android applic	cation de	velop	ment too	S.	ents can able to	
. Desigr	and dev	elop ı	iser Interfaces:	for the A	ndroi	d platfori	m.		
. Save si	tate infordate Java prog	matio gramn	n across impor ning concepts t	tant oper o Andro	ating id app	system e lication o	vents. levelopment.		
			Ās	sessment	Proce	ess			
Total So 100 mar	core = (0.5 rks)	*Atte	endance in VAC	out of 10	the V 0 perc	AC MATTERA	a aamilia it it	nore than 75% cin VAC out of	
Of an	nhan	ras.	ely' Si	Booka	Br				

Dr. G. Balakrishnan, M.E., Ph.D., **Principal**



DEPARTMENT OF MANAGEMENT STUDIES 4.02.2021 AcademicYear2020-2021-EvenSemester

Ref:IGCE/MBA/2020-21/VAC/09

DEPARTMENT CIRCULAR

Department of Management Studies and IQAC, IGCE in association with Tool Fab Engineering Industries Private Limited, organizing Value Added Course for all First year MBA students on "Performance Management System With Case Studies" from 11.02.2021 to 15.02.2021. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Interested students can register their names with the VAC Co-ordinator Mrs.Nisha Martina L AP/MBA of this program on or before 11th February 2021.

Resource Person:	Mr.A.Jeno Franklin Tool Fab Engineering Industries Private Limited Trichy
Google Meet Link	https://meet.google.com/iez-bktx-hiw

HOD/MBA

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Cea

PrincipalOffice

IQACCo-Ordinator

HoD/MBA

I-YearMBAStudents

NoticeBoard



ValueAddedCourseon"PerformanceManagementSystemWithCase Studies" **SYLLABUS**

S.NO	TOPICCOVERED	DURATION (inhours)	DATE
1	PerformanceManagementSystemACase Study ofNTPC andDiscussion	6	11.02.2021
2	PerformanceManagementSystemACase Study inITworkandDiscussion	6	12.02.2021
3	PerformanceManagementSystemACase Study inPublicsectorandDiscussion	6	13.02.2021
4	PerformanceManagementSystemACase Study inInternationalIndustrialcompaniesand Discussion	6	14.02.2021
5	PerformanceManagementSystemACase Study in BharathiAirtel/Tata MotorsandDiscussion	6	15.02.2021
	TotalHours	30	

Bifor HOD/MBA

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Military and property and the second		11.78	Reporto							
Title:	"Per	forma	rmanceManagementSystemWithCaseStudies"							
Resource	Person:		A.JenoFranklin lFabEngineering	Industries	PrivateL	imited T	richy			
Dateofconductfrom:			11.02.2021	To:	16.02.	2021	Duration:	36F	lours	
Organized	Departm	ent:	MANAGEM	ENTST	DIES	·				
ParticipantYear: 1MBA				n de Americano de Santos portos de Americano de Santos de Santos de Santos de Santos de Santos de Santos de Sa	7	No.ofStudentsRegistered:			26	
articipan	TO HERENDANIA CONTRACTOR	emina	rHall	dre streetspeeddan		and all the state of the state	Contraction of the Contraction o		1	
	MBA-S						e,Studentscar			

- Aligningemployeebehaviorwithstrategy
 Determinewhetheranygovernmentshaveimplemented"highperformance"systems, rather than a comprehensive survey approach
- Anewmodelforperformanceanalysisbasedonfourmainperspectivesofinternational industrial companies.
- Apositive feedbackwillencouragetheemployeetoworksmarterand lookforopportunities of Growth or Incentives

AssessmentProcess

- Students, who are securing more than 70% onto tals core and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- TotalScore=(0.5*Attendance inVACoutof100percentage+0.5*Test mark inVACoutof 100 marks)

VAC Coordinator

HoD/MBA

Principal

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Department of CIVIL ENGINEERING

Academic Year 2019-2020 - Odd Semester

04.12.2019

DEPARTMENT CIRCULAR

Department of Civil Engineering and IQAC of IGCE in association with "5D Architects & construction" is going to organize Value Added Course for all Second, Third and Final year students on "Estimation and current practices in civil engineering" from 09.12.19 to 13.12.19. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail

- Er.T Vinayaga Murthi,
 Managing Director,
 5D Architects & construction;
 Trichy- 620012
- 2. Mr.K Ganesa Babu,Trainee,5D Architects & construction;Trichy- 620012

Venue

CIVIL IIIyr Classroom, IGCE

HOD/CIVIL

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-628 012.

Cc:

- Principal Table
- IQAC Co-Ordinator
- HoD/Civil
- Class In charges II, III & IV-Year
- II, III & IV-Year Civil Students
- Office File
- Notice Board

Principal



ENGINEERING OF

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Value Added Course

"Estimation and current practices in civil engineering"

SYLLABUS

S.NO	TOPIC COVERED	DURATION	DATE	
		(in hours)		
1	Introduction of construction industries and			
	construction projects	3	09.12.201	
2	Sequences and schedule of work of building			
	construction with all standard Norms	3	09.12.201	
3	Brief study of building structure from			
	foundation to top level of building	3	10.12.201	
4	Quantity take off techniques by Auto CAD			
	Drawing on MS-Excel sheet	3	10.12.201	
5	Estimation of earthwork by live project			
	drawing on MS-Excel sheet.	3	11.12.2019	
6	Estimation of PCC work by live project			
	drawing on MS-Excel sheet	3	11.12.2019	
7	Introduction to framework and its types as per	2		
	standard IS Code	3	12.12.2019	
8	Estimation of extra items in frame work	3	12.12.2019	
	Estimation of concrete work items in frame	3	12.12.2017	
	work	3		
9	(footing, beam, columns, slab, staircase, RCC	1	13.12.2019	
	walls, Lift wall)			
	Estimation of bricks, stone and blocks masonry	3		
	wall	5	13.12.2019	
1	Exam	1	13.12.2019	
	Total Hours	36	din	

oordinator

Dr. G. Balakrishnan, M.E., Ph.D., Principal



Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

		R	EPORT ON V	ALI	UE AD	DED (COURSE			
Title:	Estimation and current practices in civil engineering									
Resource Person:		Er.T Vinayaga Murthi, Managing Director, 5D Architects & construction Trichy					Mr.K Ganesa Babu, Trainee, 5D Architects & constructio Trichy			ion;
	onduct from		09.12.2019		To:	13.12	2.2019	Duration:	30 F	Hours
	d Departm	ent :	CIVIL ENGIN	VEE	RING					
Participant Year: 2, 3,			4 Semester: ODD			No. of Students Registered: 44			44	
Venue:	CIVIL CI	assroc	om, 2 nd floor, I(GCE						
Outcom	e of Value	Adde	ed Course (VA	C):	At the	end of	the Cour	so Studente e		
	provie softw	de kno are	owledge about	estin	nation of	quantiti of build	es for diff ings throu	ferent items of 1919 gh estimator-2	works 2.0	& &
	• Under constr	stand uction	tion of this cour mation of build and apply varion projects.	ous n	sketch nethod	up the l	building pantity estin	lan and buildin mation measur		
	• Estima	ating,	bricks calculati	ions	and cos	st for di	ifferent ma	aterials		
G:			Asse	essme	ent Pro	Cecc				
• Stu-	idents, who attendance:	are sais elig	ecuring more t	han the c	70% o	n total	score and	l secured more	than '	75%

Dr. G. Balakrishnan, M.E., Ph.D.,

in attendance is eligible to receive the certificate for the VAC course conducted Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

VAC Coordinator

VAC out of 100 marks)



Department of Computer Science & Engineering

Academic Year 2019-2020 - Odd Semester

13.12.2019

DEPARTMENT CIRCULAR

Department of Computer Science and Engineering and IQAC of IGCE in association with **JD Software Pvt Ltd** is going to organize Value Added Course for II, III, IV and II M.E (CSE) on "PHP" from 16.12.2019 to 20.12.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail

- 1. Mr.C.ArunBalaji
 Project Manager
 JD Software Pvt Ltd
 Vandalur- 600048
- 2. R.Sathish Kumar JD Software Pvt Ltd Vandalur- 600048

Venue

SD LAB II FLOOR NETWORKS LAB II FLOOR

A. Judol HOD/CSE

Cc:

- · Principal Table
- IQAC Co-Ordinator
- Class In charges II, III, IV and PG II Year
- II,III, IV and PG II Year CSE Students
- · Office File
- NoticeBoard

Dr. G. Bajakrichnan M.D.

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Sanesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Value Added Course on

"PHP"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to PHP	3	16.12.2019
2	PHP Language Basics	3	16.12.2019
3	Loops in PHP	3	17.12.2019
4	Connecting to a Database	3	17.12.2019
5	PHP Form Handling	3	18.12.2019
6	Upload Script Example	3	18.12.2019
7	PHP upload script	3	19.12.2019
8	PHP configuration and Troubleshooting	3	19.12.2019
9	Front end Integration	3	20.12.2019
10	Arrays and Strings	3	20.12.2019
11	Exam	1	20.12.2019
	Total Hours(Excluding Exam)	30	

VAC Coordinator

Dr. G. Balakrishnan, M.E. Ph.D., Principal



and analysis	vein eerinoosinsko	run an aman (Vanada kagikina mana	Report on V	alu	Ad	ded Co	ourse		
Title:	PHP	PHP							
JD		C.Arunbalaji Software Pvt Ltd ID Software Vandalur			hish Kumar are Pvt Ltd				
Date of	conduct fr	om:	16.12.2019	To: 21.12.2019 Duration:			Duration:	36 Hours	
Organiza	ed Departr	nent:	COMPUTER SCI	ENCE	AND E	NGINEE	RING		
Participant Year: CSE IV,III ,II and M.E-			-II Year No. of Students Registered: 99			ered: 99			
Venue:	SD LAE	LAB and NETWORK LAB II FLOOR						urrer nagun is prek redikipan 1966 keristi kalantukan seri nagun is prek keristi kalantukan seri nagun is prek	
Outcon	ne of Val	ue Ad	ded Course (VAC	C): At	the en	d of the	Course, Stud	ents can able to	

- Know the fundamentals of PHP and its architecture.
- Built Module, controllers, Events
- Apply inbuilt and custom pipes
- Develop object-oriented Ruby programs using classes and objects
- Design forms and Modules in React JS
- Explain Services, Animations, Routing.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Department of Electrical and Electronics Engineering

Academic Year 2019-2020 -Odd Semester

04.12,2019

DEPARTMENT CIRCULAR

Department of Electrical and Electronics Engineering and IQAC of IGCE in association with Sri Sai Software is going to organize Value Added Course for all Second, Third and Final year students on "Automation and Robotics" from 09.12.2019 to 13.12.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail	 Dr.M.Abbas, Design Engineer, Sri Sai Software.
Venue	EEE III yr Classroom, IGCE

Gr. Ma Cathi

HOD/EEE

PMINEPAL

Cc:

- · Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year EEE Students
- · Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,



Value Added Course

"Automation and Robotics"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to robots and robotics	3	09.12.2019
2	Robots kinematics	3	09.12.2019
3	Robots kinematics	3	10.12.2019
4	Trajectory planning	3	10.12.2019
5	Singularity checking	3	11.12.2019
6	Robots dynamics	3	11.12.2019
7	Control scheme, Sensors	3	12.12.2019
8	Robot vision	3	12.12,2019
9	Robot motion planning	3	13.12.2019
10	Intelligent robot and Automation	3	13.12.2019
11	Exam	1	13.12.2019
	Total Hours (Excluding Test)	30	ret

VAC Coordinator

Gr. Ma Cathi

Dr. G. Balakrishnan, M.E., Ph.D.,



Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Report on	Value	Added	Course

Title:

"Automation and Robotics"

Resource

Dr.M.Abbas.

Person:

Design Engineer,

Sri Sai Software

Date of conduct from:

09.12.2019

To: | 13.12.2019

Duration:

30 Hours

Organized

Electrical and Electronics Engineering

Department:

Participant Year:

2,3,4

No. of Students Registered:

63

Venue:

EEE III yr Classroom

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Understand basic components of robotics, classification of robots and their applications.
- Know on types of robot grippers, their usage and design considerations.
- Understand about various types of sensory devices their working and applications.
- Apply basic transformations related to the movement of manipulator.
- Design a robot mechanism to meet kinematics requirements and to write simple programs.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

HOD/EEE

Fr. Ma Cath

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Department of Electronics and Communication Engineering

Academic Year 2019-2020-ODD Semester

22.11.2019

DEPARTMENT CIRCULAR

Department of Electronics and Communication Engineering and IQAC of IGCE in association with Pantech Solution, Trichy, is going to organize Value Added Course for all Second, Third and Final year students on "PIC Micro controller and ARM processor" from 02.12.2019 to 06.12.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1. Mr.M.Senthil Murugan,
	Trainer,
	Pantech Solutions
Resource Persons	Trichy
	2. Mr.K.Manokar,
	Trainer,
	Pantech Solutions
	Trichy
Venue	DSP lab, IGCE

HOD/ECE

PRINCIPAL

Ce:

- Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year ECE Students
- · Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Value Added Course

"PIC Microcontroller and ARM processor"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	PIC- Introduction, Architecture, Serial port interfacing devices	3	02.12.2019
2	I/O Programming Arithmetic	3	02.12.2019
3	Peripheral Interfacing of Pic MC- USART, Asynchronous Transmission, BAUD RATEGenerator	3	03.12.2019
4	Timer programming in Assembly and C	3	03.12.2019
5	ARM Architecture, Register Interrupts ,Software Interrupt	3	04.12.2019
6	ARM assembly Language programming	3	04.12.2019
7	Implementation using Keil: Arithmetic and logical operations	3	05.12.2019
8	ARM Development Tools, KEIL IDE Simple Project Creation, Simulation hardware interface	3	05.12.2019
9	Temperature sensor	3	06.12.2019
10	Accessing on chip ADC and to display the value in PC serial terminal	3	06.12.2019
11	Exam	1	06.12.2019
	Total Hours (Excluding Exam)	30	00.12.2017

R. Dithy VAC Coordinator

HOD/ECE

Dr. G. Balakrishnan, M.E., Ph.D.,

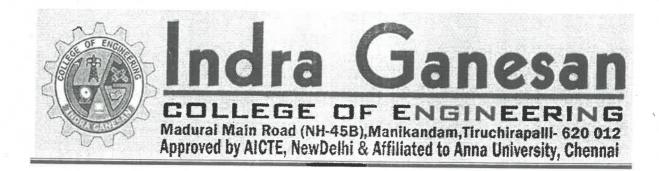
Principal



REPORT ON VALUE ADDED COURSE Title: "PIC Microcontroller and ARM processor" Mr.M.Senthil Murugan, R&D, Pantech Resource Person: Mr.K.Manokar. Solutions, Trichy Trainer, Pantech Solutions, Trichy Date of conduct from: 02.12,2019 To: 06.12.2019 Duration: 30 Hours Organized Department: Electronics and Communication Engineering Participant Year: 2.3.4 No. of Students Registered: 72 Venue: **DSP Lab** Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to Understand the simulation tools in PIC Microcontroller and ARM Processor Recognize various tools used for the controller applications Examine the methods for Troubleshooting in various simulation tools. Gain knowledge about working principle of ARM processor. Implement and verify control strategies in the simulation platform for Pic Micro controller **Assessment Process** • Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted • Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks) VAC Coordinate

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Department of Mechanical Engineering

Academic Year 2019-2020 - Odd Semester

Date: 07.12.2019

DEPARTMENT CIRCULAR

Department of Mechanical Engineering of IGCE association with "CADD Centre, Trichy" is going to organize Value Added Course for all II and III,IV year students on "Evaluation of CREO" from 09.12.2019 to 13.12.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1. Mr.Prabahar
Resource Person Details	Trainer
	CADD centre
	Trichy
	2. Mr. Jaya kumar
	Trainer
	CADD centre
	Trichy
Venue	Mechanical Seminar Hall, IGCE

новемесн

PRINCIPAL

Cc:

- Principal office
- Class In charges II, III & IV Year
- Class Room of II,III,IV Year
- Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



Value Added Course

"Evaluation of CREO"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	CREO Parametric Interface, Concepts, Managing Files in CREO	3	09.12.2019
2	Creating and Modifying Sketches, Extrudes and Chamfers	3	09.12.2019
3	Creating Revolves and Rounds	3	10.12.2019
4	Understanding Datum, Patterns	3	10.12.2019
5	Creating Sweep Features, Helical Sweep Features	3	11.12.2019
6	Creating Blends, Swept Blends, Copy and Paste Functionality	3	11.12.2019
7	Creating Shells, Draft, Holes, Ribs	3	12.12.2019
8	Relations and Parameters, Deleting, Suppressing	3	12.12.2019
9	Managing Design Intent, Analysing Mass Properties	3	13.12.2019
10	Assembling With Constraints, Drafting In CREO	3	13.12.2019
11	Test	1	13.12.2019
	Total Hours Excluding Assessment	30	-

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

.,	Report	on Val	ue Ad	lded (Course		
Title:	Evaluation of						
Resource Person:	Mr. Jayakun Trainer, CADD centr Trichy		. Praba	har,			
Date of conduct from:	09.12.2019	To:	13.12	2019	Duration:	30 Hours	
Organized Department:	MECHANIC	CAL ENC	GINEE	RING			
Participant Year:	4			No. of S	tudents Registe	ered : 41	
Venue:	Mechanical Se	minar hal					
Outcome of Value Ad	dod Com Oil	i ~ .					

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Know to explain the CREO Parametric Interface, Concepts.
- Know how to Creating and Modifying Sketches
- Learn and Demonstrate Datum, Patterns, basic commands
- Students are expected to learn the special tools like Creating Shells, Draft, Holes, Ribs.
- Know to recall Assembling with Constraints, Drafting in CREO.
- They receive required training on Animating Assemblies, Applying Mechanism to Assemblies, Creating Sheet Metal Work

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of

VAC Coordinator

Principal

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Department of Information Technology

Academic Year 2019 - 2020 - ODD Semester

20.11.2019

DEPARTMENT CIRCULAR

Department of **Information Technology** and IQAC of IGCE in association with, **Azatech Pvt**, **Ltd** is going to organize Value Added Course for all Second, Third and Final year students on "Cloud Service Management Tools" from 26.11.2019 to 30.11.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1.Mr. M. Vivek, Chief Executive Officer
	Azatech Pvt, Ltd, Chennai
Java Program	
	2. Mr.S. Anto
	Chief Executive Officer
	Infosys ,Chennai
Venue	IT Seminar Hall, IGCE

Leif HOD/IT Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

PRINCIPAL

Cc:

- · Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year IT Students
- Office File
- Notice Board



Value Added Course

" Cloud Service Management Tools"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	cloud service management fundamentals	3	26.11.19
2	Concepts of cloud computing:	3	26.11.19
3	Cloud Service Paradigm	3	27.11.19
4	Cloud Providers of Cloud Service Provider (CSP):	3	27.11.19
5	cloud service management	3	28.11.19
6	Basics of information technology service management and cloud service management	3	28.11.19
7	cloud computing eco system	3	29.11.19
8	Information Technology Service Management (ITSM)	3	29.11.19
9	cloud service governance & value	3	30.11.19
10	service perspectives	2	30.11.19
11	Exam	1	30.11.19
	Total Hours (Excluding Exam)	30	-

S. Sujud VAC Coordinator

Dr. G. Balantishnen, M.E., Ph.D.,



REPORT ON VALUE ADDED COURSE Title: "Cloud Service Management Tools" Resource Person: Mr. M. Vivek, Azatech Pvt, Ltd, Mr.S. Anto Infosys Chennai Chennai Date of conduct from: 26.11.19 To: 30.11.19 Duration: 30 Hours Organized Department: INFORMATION TECHNOLOGY Participant Year: 2,3,4 No. of Students Registered: 73 Venue: IT Seminar Hall Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to Create a Cloud Organization in AWS/Google Cloud/or any equivalent Open Source cloud softwares like Openstack, Eucalyptus, OpenNebula with Role-based access control Create a Cost-model for a web application using various services and do Cost-benefit analysis Create alerts for usage of Cloud resources Create Billing alerts for your Cloud Organization Compare Cloud cost for a simple web application across AWS, Azure and GCP and suggest the best one Assessment Process • Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted

VAC Coordinator

marks)

HoD/IT

• Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100

Principal

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Department of Science and Humanities Academic Year 2019-2020 -Odd Semester

12.12.2019

DEPARTMENT CIRCULAR

Department of Science and Humanities in association with is going to organize Value Added Course for all first year students on "Multimedia design" from 16.12.2019 to20.12.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our Campus.

Resource Person Detail Chennai Mr A. Saravanan		Team Leader JD Pvt Ltd
	Resource Ferson Detail	2. Mr A. Saravanan
	Resource Person Detail	

S. Lostalan HOD/S&H

PRINCIPAL

Cc:

- · Principal office
- HoD/S&H
- Class In charges I-Year
- I-Year S&H Students
- · Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Pn.D.,

Principal



Value Added Course

"Multimedia design"

SYLLABUS

S.NO	TOTIC COVERED	DURATION (in hours)	DATE
1	Multimedia operating systems	3	16.12.2019
2	Multimedia communication systems	3	16.12.2019
3	Multimedia Hardware	3	17.12.2019
4	Multimedia Softwarwe	3	17.12.2019
5	Introduction to Printing technology	3	18.12.2019
6	Desktop publishing	3	18.12.2019
7	Multimedia Animation	3	19.12.2019
8	Multimedia Special effects	3	19.12.2019
9	Compositing and Audio-Video Editing	2	20.12.2019
10	Compositing and Audio-Video Editing	2	20.12.2019
11	Exam	1	20.12.2019
	Total Hours (Excluding exam)	30	manage to the second se

VAC Coordinator

S. Bookslan HoD/S&H

Dr. G. Balakrishnan, M.L., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Title: " Mı	Itima		t on Val	ue Ad	ded Cour	se		
Resource Person:	Mr, C. Arun Mr, C. Arun Managing d JD Pvt Ltd Chennai			•	Management of the Spirit Control of the Spir	Mr A. Saravanan Team Leader JD Pvt Ltd Chennai		
Date of conduct from:		16.12.2019	To:	20.1	2.2019	Duration:	30 Ho	ours
Organized Departs	nent:	SCIENCE AN	D HUM	IANIT	TES	Abadinkaramana appendental sesses		
Participant Year: 1		**************************************			No. of Students Registered:			
Venue: AUDII	ORIU	M	***************************************			***************************************	-	-g-g-sss-may-pa-sp2/42145
		dded Course (V						
1. Understand the started easily in n 2. Get knowledge these things is ver 3. Know about the 4. Understand des	abour y nece vario	edia t various terms essary. ous compressio	like, in n techn	nages,	text, font	s, file formats	s. Unde	rstanding
very important pro	ocess	for those who v	want to	learn [roperly a	about designi	ng.	
• Students, who a attendance is elip • Total Score = (0, 100 marks)	gible to	uring more tha receive the cert	tificate f	on to or the 1	tal score	se conducted		

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Read
Manikandam, Trichy-620 012.



DEPARTMENT OF MANAGEMENT STUDIES Academic Year 2019-2020 - Odd Semester

18.06.2019

Ref: IGCE/MBA/2019-20/VAC/01

DEPARTMENT CIRCULAR

Department of Management Studies and IQAC, IGCE in association with M/s White & Black Digital Marketing organizing "Special Training on Digital Marketing" Value Added Course for all II MBA students from 24.06,2019 to 28.06.2019. Certificates will be issued to all eligible students at the end of the Course.

Interested students can register their names with the VAC Co-ordinator Mrs.N.Minipirya on or before 21st June 2019.

Resource Person:	Mr.V.Arunkumar
	Managing Director
	M/s. White & Black Digital Marketing
	Trichy.
Venue:	MBA Seminar Hall

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Cc:

- Principal Office
- IQAC Co-Ordinator
- HoD/ MBA
- II -Year MBA Students
- Notice Board



Value Added Course on "Special Training on Digital Marketing"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE 24.06.2019	
1	Introduction To Digital Marketing	3		
2	Website Planning & Analysis	3	24.06.2019	
3	Search Engine Optimization and Marketing	3	25.06.2019	
4	Social Media Marketing	3	25.06.2019	
5	Web Analytics / Marketing & Sales Automation	3	26.06.2019	
6	Display Advertising and Video Advertising	3	26.06.2019	
7	Mobile Marketing / App Store Optimization	3	27.06.2019	
8	Content Marketing & Blogging	3	27.06.2019	
9	Affiliate Marketing / Email Marketing	3	28.06.2019	
10	Influencer Marketing / Growth Hacking	3	28.06.2019	
11	Exam	1	28.06.2019	
	Total Hours	30	-	

HOD/MBA

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



			Report on	vaiue	Au	nea Co	urse	***********	
Title:	Specia	al Training on Digital Marketing							
Resource	Person:	MD	White & Black	c Digita	l Mari	keting	apper any objective anguera		дудуній і ду — оконовителогі
Date of conduct from:		m:	24.06.2019	To:	28.0	6.2019	Duration:	30 F	fours
Organized	l Departm	nent:	MANAGEME	NT ST	UDIE	S		<u></u>	
Participant Year: 2 Year		ar MBA		addentary organization of the safety	No. of Students Registered :		ered:	42	
Venue:	MBA –	Semin	ar Hall				F.B79444444-4-444	agrapagarar yr amri	1,
A /	e of Val	ıe Ad	ded Course (VA	C): At	the en	d of the C	Course, Stud	ents c	an a

- Overview of Microsoft AdCenter
- Techniques for achieving high user engagement on social media
- Analyzing and gaining insights from website data
- Familiarizing with different ad formats for video advertising.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

HoD/MBA

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Department of Civil Engineering

Academic Year 2019-2020 - Even Semester

DATE: 15.07.20

DEPARTMENT CIRCULAR

Department of Civil Engineering and IQAC of IGCE in association with KALAM CONSTRUCTION is going to organize Value Added Course for all Second, Third and Final year students of CIVIL engineering on "Safety in construction" from 20.07.20 to 24.07.20, though, https://meet.google.com/mnd-tpqm-gbm (Google meet link). Certificates will be issued to the eligible participants at the end of the Course.

Resource Person Detail	Mr.K. KUMAR, Assistant Engineer, Kalam Construction, Thanjavur, Tamilnadu
Venue ·	https://meet.google.com/mnd-tpqm-gb (Google Meet)

Cc:

- Principal Table
- IQAC Co-Ordinator
- HoD/ Civil
- Class In charges II, III & IV-Year
- II, III & IV-Year Civil Students
- Office File
- Notice Board

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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan Coilege of Engineering
IG Valley, Madurai Main Read
Manikandam, Trichy-620 012.



Indra Ganesan

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Value Added Course on "SAFETY IN CONSTRUCTION"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to construction industry and safety issues in construction	3	20.07.2020
2	Framing of contract conditions on safety and related matters	3	20.07.2020
3	Safety in various construction operations	3	21.07.2020
4	Familiarization with relevant Indian Standards and the National Building Code provisions on construction safety	3	21.07.2020
5	material handling and equipment's-Safety in storage & stacking of construction materials	3	22.07.2020
6	Safety in temporary power supply and fire safety at construction site.	3	22.07.2020
7	Licensing of Contractors, Welfare and Health provisions in the Act and the Rules, Penalties, Rules regarding wages.	3	23.07.2020
8	Code of PracticesPreventive measures against Hazards at work places Part 1 & 2	3	23.07.2020
9	Indian standard - trusses, girders and beams	3	24.07.2020
10	Fire hazards and preventing methods	3	24.07.2020
	Total Hours	30	-

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. HODICIAII



Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Title:	"Safety in construction"							
Mr.K. KUMAR, Resource Person: Assistant Engineer, Kalam Construction, Thanjavur, Tamilnadu			neer,	Dr. G. Balakrishnan, M.E., F Francipal Indra Ganesan College of Engine IG Valley, Madurai Main Road Manikandam, Trichy-620 012				
Date of conduct from: 20		20.07.20	To:	24.07.24	Duration:	30 Hours		
Organized Department: CIVIL ENGINEERI				NEERIN	G			

Outcome of Value-Added Course (VAC): At the end of the Course, Students can able to

- Basic terminology in safety, types of injuries, safety pyramid
- Accident patterns, theories of accident-causation
- Planning for safety budget, safety culture
- Introduction to OSHA regulations
- Role of stakeholders in safety
- Site safety programs Job hazard analysis, accident investigation & accident indicesviolation, penalty
- Safety during construction, alteration, demolition works Earthwork, steel construction, temporary structures, masonry & concrete construction, cutting & welding

Assessment Process

Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted.

Total Score = (0.5 * Attendance in VAC out of 100 percentage + 0.5 * Test mark in VAC out of 100 marks).

VAC Coordinator

HoD/CIVIL

rincipal



Academic Year 2019-2020 - Even Semester

20.06.2020

DEPARTMENT CIRCULAR

Department of Computer Science and Engineering and IQAC of IGCE in association with FLINK TECHNOLOGIES, is going to organize Value Added Course for II, III, IV and II M.E (CSE) on "AGUMENTED REALITY AND VIRTUAL REALITY" from 22.06.2020 to 26.06.2020. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus

> Resource Person

MRS.SANKARI PROJECT MANAGER FLINK TECHNOLOGY KUMBAKONAM

Venue

Google Meet

Cc:

- Principal Table
- IQAC Co-Ordinator
- HoD/CSE
- Class In charges II,III, IV-Year and PG II Year
- II,III ,IV-Year and PG II Year CSE Students
- · Office File
- NoticeBoard

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Value Added Course

AGUMENTED REALITY AND VIRTUAL REALITY

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to AR and VR	3	22.06.2020
2	Hardware and Devices	3	22.06.2020
3	Software and Development Tools	3	23.06.2020
4	Augmented Reality (AR)	3	23.06.2020
5	Virtual Reality (VR)	3	24.06.2020
6	Interaction Design and User Experience	3	24.06.2020
7	Applications of AR and VR	3	25.06.2020
8	Social and Ethical Implications	3	25.06.2020
9	Future Trends and Emerging Technologies	3	26.06.2020
10	Industry and market outlook	3	26.06.2020
11	Exam	1	26.06.2020
	Total Hours(Excluding Exam)	30	gent de la description (control débite), aux estambales du separament memorray regerages,

VAC Coordinator

100.

Hod/CSE

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Report on Value Added Course

Title: AGUMENTED REALITY AND VIRTUAL REALITY

Resource Person: Mrs. Sankari
Flink Technologies,
Kumbakonam

Date of conduct from: 22.06.2020 To: 26.06.2020 Duration: 30 Hours

Organized Department: COMPUTER SCIENCE AND ENGINEERING

Venue: online mode Google Meet: meet.google.com/22.06.2020 to 26.06.2020

CSE IV,III,II, and M.E-II

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

No. of Students Registered :

Transform textbooks or learning materials into interactive 3D models through AR.

Access additional information about their surroundings in real-time through AR

• Provide real-time navigation guidance by overlaying directional arrows or information onto the user's view.

Enable users to watch 360-degree videos.

Create immersive gaming experiences where users can feel fully immersed in virtual worlds.

Assessment Process

• Students, who are securing more than 60% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted

Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

Participant Year:

HoD/CSE

Principal

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Indra Ganesan



Medural Mein Road (NH-45B), Menikendam, Tiruchirappall - 620 012 Apparted by AICTE, NewDelin & Athliated to Assa University, Chemosi NAAC Associated, 2(F) Status Institution by UGC

Department of Electrical and Electronics Engineering

Academic Year 2019-2020 - Even Semester

15.07,2020

DEPARTMENT CIRCULAR

Department of Electrical and Electronics Engineering and IQAC of IGCE in association with Smart Power Care is going to organize Value Added Course for all Second, Third and Final year students on "Smart Grid Technology" From 20.07.2020 to 24.07.2020. Certificates will be issued to the eligible participants at the end of the Course. This training will be conducted through online mode.

Resource Person Detail	1. K. Marimuthu, Senior Project Trainer, Smart Power Care, Thillai Nagar, Trichy
Online Mode	Google Meet

Gr. Ma lathi

PRE IPAL

Cc:

- · Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year EEE Students
- · Office File
- · Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,



Indra Ganesan



Medurai Main Road (NH-45E), Manikandam, Truchirappalii - 620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University; Chernoi
NAAC Accredited, 2(K) Status Institution by UGC

Value Added Course

"Smart Grid Technology" <u>SYLLABUS</u>

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Smart Grid, Architecture, Standards and Elements and Technologies of Smart Grid System.	3	20.07.2020
2	Distributed Generation Resources	3	20.07.2020
	Introduction to energy storage devices.		20.07.2020
3	Analytical modelling of energy storage devices	3	21.07.2020
4	Wide area Monitoring Systems	3	21.07.2020
5	Smart Grid Protection	3	22.07.2020
dilit.	Modelling of DC smart grid components	and the state of the transfer of the state o	
6	Operation and control of AC Microgrid	3	22.12.2019
7	Operation and control of AC-DC hybrid Microgrid	3	23.12.2019
	Phasor measurement unit placement		
8	Cyber security and resiliency	3	23.12.2019
Impro Antibago (ess	Virtual inertia and ancillary support	To an annual control of the control	23.12.2019
	Simulation and case study of AC Microgrid	orthogogy - add Austra	
A A	Simulation and case study of DC Microgrid		
9	Simulation and case study of AC-DC Hybrid Microgrid	3	24.12.2019
Prima da de de prima popular p	Demonstration of parallel inverter operation in AC Microgrid		The second secon
0 5	Design of Smart Grid and Practical Smart Grid Case Study, stem Analysis of AC/DC Smart Grid	3	24.12.2019
	xam	1	24.12.2019
	Total Hours (Excluding Test)	30	-

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. Gr. Ma Lather







Title:	"Smar	nart Grid Technology"						
Resource	Daname,	8	Aarimuthu,	e.				
Kesource	rtisons.	ì	or Project Traine art Power Care,	ŭi,				
		1	lai Nagar, Trichy		10 T	pullinger for a sixty of the si	and the state of t	and the second s
Date of co	onduct fro	1	20.07.2020	To:	24.07.2020	Duration:	30 Ho	ours
		-	Electrical and	Electro	nics Engineeri	ng		
Organized Department: Participant Year: 2,3,4		A CONTRACTOR OF THE PROPERTY O		No. of Students Registered:		(53	
Venue:	online	mode	Google Meet: ht	tps://m	eet.google.com	hbp-aczr-dg	e	bla to
			added Course (V				dents c	an able to
	. 1 11.E	Canant	ACCOMMUNICATION I	CCHIUL	SIGO MUSIC III DAVIN	art grids.		
3. Get a	ccustome	d with	the fundamental	ition in	Substation and s	substation Aut	tomation	n.
6. Unde	rstand the	distri	hution automatio	II JUL SH	ent Process	ment.		yer =
			A	39639111	VASC A A VEGOD		and the same of th	

KAC'Coordinator

100 marks)

Gr. Mateth.

HoD/EEE

Dr. G. Balakrishnan, M.E., Ph.D.,



Department of Electronics and Communication Engineering Academic Year 2019-2020-EVEN Semester

06.07.2020

DEPARTMENT CIRCULAR

Department of Electronics and Communication Engineering and IQAC of IGCE in association with Galwin Technology, Trichy, is going to organize Value Added Course for all Second, Third and Final year students on "Internet of Things" from 13.07.2020 to 17.07.2020. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in online mode

Online mode: https://meet.google.com/ivm-woxq-voo

1.Mr.Tamil Vendhan,
Human Resource Manager
Galwin Technologies, Trichy

Resource Persons

2.Mr.Deepan,
Trainer
Galwin Technologies, Trichy

Venue

Online Mode

HOD/ECE

PRINCIPAL

Cc:

Principal office

M. Bhugae

IQAC Co-Ordinator

• Class In charges - II, III & IV-Year

• II, III & IV-Year ECE Students

· Office File

· Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Value Added Course

"Internet of Things"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Internet of Things (IoT)	3	13.07.2020
2	Applications of IoT in various business sectors	3	13.07.2020
3	IoT architecture - Software & Hardware platforms for IoT implementation	3	14.07.2020
4	Introduction to Cloud- MQTT Protocols Communication technique and API creation tools	3	14.07.2020
5	Data Visualization, Data Analytics, Plugins, Import & Export	3	15.07.2020
6	How to build an IoT product	3	15.07.2020
7	Analog Sensors & Interfacing	3	16.07.2020
8	Introduction to GPS communication & interfacing	3	16.07.2020
9	Hardware Explanation for Real Time Product Development	6	17.07.2020
10	Exam	1	17.07.2020
	Total Hours (Excluding Exam)	30	w.

R. Dilly VAC Coordinator

HOD/ECE

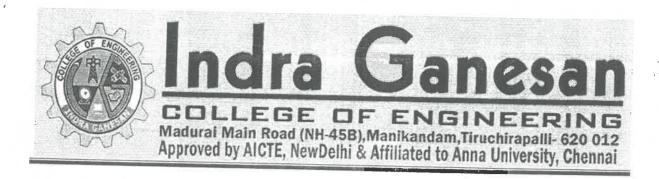
Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



REPORT ON VALUE ADDED COURSE Title: "Internet of Things" Mr. Tamil Vendhan K.C, Human Resource Person: Mr.Deepan, Trainer, Galwin Technology, Resource Manager Galwin Technology, Trichy Trichy Date of conduct from: 13.07.2020 To: 17.07.2020 Duration: 30 Hours Organized Department: Electronics and Communication Engineering Participant Year: 2,3,4 No. of Students Registered: 72 Online Link: https://meet.google.com/jym-woxq-voo Venue: Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to Identify the Components that forms part of IoT Architecture Able to understand the application areas of IOT Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks Able to understand building blocks of Internet of Things and characteristics Analyse the communication protocols for IoT. Assessment Process • Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted • Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks) HoD/ECE

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Department of Mechanical Engineering

Academic Year 2019-2020 - Even Semester

Date: 28.05.2019

DEPARTMENT CIRCULAR

Department of Mechanical Engineering of IGCE in association with "NIT Siemens, Trichy" is going to organize Value Added Course for all II and III,IV year students on "External Aerodynamics Simulations" from 01.06.2019 to 05.06.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	. P
Resource Person Details	1. Mr. Mr. Suresh
	Trainer
	NIT Siemens
	Trichy
	2. Mr. Jaya Kumar
	Trainer
	NIT Siemens
	Trichy
Venue	Mechanical Seminar Hall,IGCE

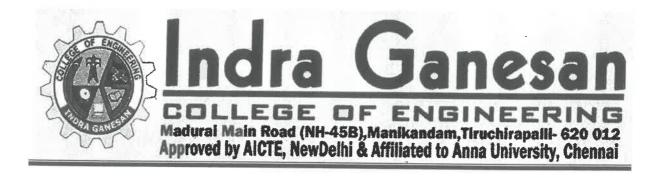
Hodanech

Cc:

- Principal office
- Class In charges II, III & IV Year
- Class Rooms-II, III, IV Year
- Office File.
- · Notice Board.

PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D., Principal



Value Added Course

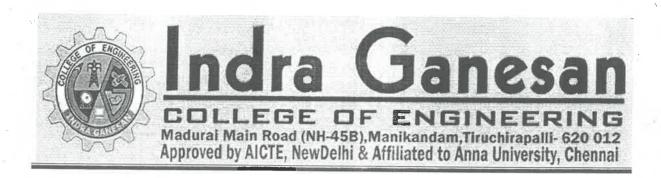
"External Aerodynamics Simulations"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to the subject of engineering and design working in the automotive field	3	01.06.2020
2	Illustrated explanations of the physical principles involved	3	01.06.2020
3	Vehicle Aerodynamics, through its coupling to energy efficiency, is important in the creation of a sustainable society.	3	02.06.2020
4	Fundamental theories of Fluid Dynamics	3	02.06.2020
5	Vehicle Aerodynamic applications.	3	03.06.2020
6	Aerodynamic design of passenger- and commercial vehicles.	3	03.06.2020
7	Different tools used to optimize and evaluate Aerodynamic performance.	3	04.06.2020
8	Aerodynamic properties of a vehicle, by analysing wind tunnel and CFD results	3	04.06.2020
9	Suggest Aerodynamic improvements to an existing design.	3	05.06.2020
10	Thermal Management, Aeroacoustics, Contamination, and Climate Comfort.	3	05.06.2020
11	Exam	1	05.06.2020
	Total Hours Excluding Assessment	30	-

VAC Coordinator

Dr. G. Baldkrishman, M.E., Ph.D., Principal Hod/MECH



	Report on V	alue	Ado	led	Cor	ırse		
Title:	External Aerodynamics Simulations							
	Mr. Suresh,				Mr. Vijay			
Resource Person:	Trainer				Trainer			
	NIT Siemens,				NIT Siemens,			
	Trichy				Trichy			
Date of conduct from:	01.06.2020	To:	05.06	.2020)	Duration:	30 H	Iours
Organized Department:	MECHANICAL	MECHANICAL ENGINEERING						
Participant Year:	2,3	2,3 No			of Stu	dents Registe	ered:	65
Venue:	Mechanical Semin	ar hal	1					

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Know to explain the design working in the automotive field.
- Know how to illustrated explanations of the physical principles involved
- Students are expected to learn and practice the Vehicle Aerodynamic applications.
- Know to recall Aerodynamic improvements to an existing design.
- They receive required training on Thermal Management, Aeroacoustics, Contamination, and Climate Comfort.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

HoD/MECH

Principal



Department of Information Technology

Academic Year 2019 - 2020 - EVEN Semester

17.04.2020

DEPARTMENT CIRCULAR

Department of Information Technology and IQAC of IGCE in association with Leo Tech ,Vizro is going to organize Value Added Course for all Second, Third and Final year students on "Smart Computing Technologies in IOT" by from 25.04.2020 to 29.04.2020 Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

1 Ms. U. Liza,

"IOT Chief Executive Officer,
eo Tech, Vizro

Venue IT Seminar Hall, IGCE

HOD/IT

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

PRINCIPAL

Cc:

- Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year IT Students
- Office File
- Notice Board



Value Added Course

"Smart Computing Technologies in IOT"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Embedded System and Internet of Things	3	25.04.2020
2	Embedded IoT Platform Design Methodology	3	25.04.2020
3	Pillars of Embedded IoT and Physical Devices	3	26.04.2020
4	IoT Protocols and Security	3	26.04.2020
5	Web of Things and Cloud of Things	3	27.04.2020
6	BACNet Protocol, Modbus, KNX, Zigbee Architecture	3	27.04.2020
7	Architecture Standardization for WoT, Platform Middleware for WoT	3	28.04.2020
8	IoT Physical Servers, Cloud Offerings and IoT Case Studies	3	28.04.2020
9	IoT applications	3	29.04.2020
10	Real Time Systems	2	29.04.2020
11	Exam	1	29.04.2020
	Total Hours (Excluding Exam)	30	200 NAME OF THE STREET OF THE

VAC Coordinato

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. HOD/I



				MARKET MA			n e diplomága	
			REPORT O	N VALU	E ADI	DED COL	JRSE	
Title:	"Smar	t Cor	mputing Tech	nologie	s in I	OT"	•	
Resource I	erson:	Chie	U. Liza, f Executive Office	er,		New Application of the Control of th		
Date of co	nduct fro		ech, Vizro 25.05.2020	To:	20.0	4.2020	Duration:	30 Hours
			INFORMATIO		4		Duration:	30 Hours
Participant Venue: r Outcome of CO1: To a	Year: Semin Value A underst Utilize	2,3,4 ar Ha Added tand emb	II meet.google Course (VAC): A the architecturedded C progr	e.com/u At the en	ike-cu d of th ibedd	No. of Suhd-emh	Students can	
CO4: To (CO5: Esta latform	Compa blizing	re the	mbedded applice communicate ign IoT applice computing tec	ion mod ations	dels in using		o/Raspberry	Pi /open
			Ass	sessment	Proce	SS	AND	****
attendanc	e is elig	ible to	receive the certificandance in VAC or	cate for th	ne VA	C course c	onducted	
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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Principal

VAC Coordinato

Manikandam, Trichy-620 012.



COLLEGE OF ENGINEE Madural Main Road (NH-45B), Manikandam Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Department of Science and Humanities

Academic Year 2019-2020 - Even Semester

08.05.2020

DEPARTMENT CIRCULAR

Department of Science and Humanities in association with Azatech Pvt is going to organize Value Added Course for all first year students on "Recent development in Nanotechnology" from 11.05.2020 to 15.05.2020. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail	 Mr,Vivek Managing Director Azatech, Pvt Chennai Mr A. Saravanan Team Leader Izone, Chennai 	
Venue	Auditorium, IGCE	

Cc:

- · Principal office
- 'HoD/ S&H
- Class In charges I-Year
- I-Year S&H Students
- Office File
- NoticeBoard

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-629 012.



Value Added Course

"Recent development in nanotechnology"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
	Introduction to Nanoscience and		
1	Nanotechnology	3	11.05.2020
	Synthesis and Characterization of	3	11.05.2020
2	Nanomaterials		
3	Synthesis of different types of nanocomposites	3	12.05.2020
	Instrumentation techniques for characterization	3	12.05.2020
4	of nanomaterials		
5	Nanotechnology to diverse science	3	13.05.2020
6	Applications in Displays and other Devices, Building Materials	3	13.05.2020
7	Nanotechnology for Sustainable Energy, Solar energy, batteries	3	14.05.2020
8	Nano carbon Technology and Applications,	3	14.05.2020
9	Carbon nanotube	3	15.05.2020
10	Wastewater Treatment	3	15.05.2020
11	Exam	1	15.05.2020
	Total Hours (Excluding Exam)	30	-

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.B.,

HoD/S&H

Principal



COLLEGE OF ENGINEERING
Madural Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Title:	" Rec	ent de	evelopment in n	anotechr	ology	59			
Resource	Person:		Mr,Vivek Managing Director Azatech, Pvt Chennai Mr A. Saravanan Team Leader Izone, Chennai		Managing Director Azatech, Pvt		Team Leader		SPALMINION
Date of co	nduct fr	om:	11.05.2020	To:	22.05	5.2020	Duration:	30	Hours
Organized	Departr	nent:	SCIENCE AN	ND HUM	ANIT	IES		-	
Participan	t Year:	1				No. of S Register		Primary	78
Venue:	AUDIT	ORI	JM				7000600 ₀ m		
Outcor	me of Va	lue A	dded Course (\	AC): At	the er	d of the	Course, Stude	ents c	an able to
. Prilimin . Unders anomate . Underst	nary me tand aborial char tand info	thods out dif acteri ormat	s of nano Scies of different type fferent instrument zation. ion about applity to develop i	pe of nan entation t cations o	comp techni	posites fa ques like o compos	AFM,SEM,	eine,	industry etc
				ssessmen					*
attendan	ce is eliquore = (0.	gible to	euring more the certendance in VA	tificate fo	r the V	AC cour	se conducted		
1	oording		1	S. Sa	obali	1 a-	V	1	

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



DEPARTMENT OF MANAGEMENT STUDIES Academic Year 2019-2020 - Even Semester

30.12.2019

Ref: IGCE/MBA/2019-20/VAC/12

DEPARTMENT CIRCULAR

Department of Management Studies and IQAC, IGCE in association with Trytax Professionals organizing Value Added Course for all First year MBA students on "ERP Basics and Its Applicability in Modern Era" from 06.01.2020 to 10.01.2020. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Interested students can register their names with the VAC Co-ordinator Mrs.N.Minipriya AP/MBA of this program on or before 3rd January 2020.

Resource Person:	Mr.Sudharsan / MD Trytax Professionals Trichy
Venue:	MBA Seminar Hall

Cc:

- Principal Office
- IQAC Co-Ordinator
- HoD/MBA
- I Year MBA Students
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D., **Principal**



"Value Added Course on "ERP Basics and Its Applicability in Modern Era" **SYLLABUS**

s.no	TOPIC COVERED	DURATION (in hours)	DATE
5410	1 Evolution of ERP	3	06.01.2020
1	Introduction and Evolution of ERP	3	06.01.2020
2	Why company undertake ERP	3	07.01.2020
3	Business process Reengineering		07.01.2020
4	Entities forming a data model	3	
5	ERP implementation & its Methodology	3	08.01.2020
		3	08.01.2020
6	Past Implementation	3	09.01.2020
7	Risk and Governance Issues in ERP	3	09.01.2020
8	ERP Fit with e-commerce	3	10.01.2020
9	ERP vendors		10.01.2020
10	ERP Software package (SAP)	3	
	Exam	1	10.01.2020
11	Total Hours	30	The same and supplied

Bitton HOD/MBA

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

		ook oo	Report on V	alue	Add	led Co	urse		producery recognis - principles and discrete intermediate (the second
Title:	" ERP	Basi	ics and Its Appli	cabili	ty in N	Aodern I	Era"		
Resource l	Person:		Sudharsan / MD ax Professionals hy						
Date of co	nduct fro	m:	06.01.2020	To:	10.01	.2020	Duration:	30 H	ours
Organized	Departn	nent:	MANAGEMEN	IT ST	UDIES	S			
Participan	t Year:	1 Yea	ar MBA	our ray actives .		No. of St	udents Registe	ered:	28
Venue:	Main Bl	ock –	Seminar Hall			A STATE OF THE PARTY OF THE PAR	**************************************		
 Re Ne Pro Re BP SA 	alizing the document of the do	ne requilyse contellige er document to major ique second er second	ided Course (VAC) hirements of user orgost or revenue on pro- nt business tools like huments by providing or transformation of by ystem that support a Assert curing more than 7 to receive the certificatendance in VAC out	ganisati oduct of e Decis g on-lin busines all areas ssmen	ons or custor ion Sur ie form is proce of glob t Proce the VA	mer basis oport system at ess to achie bal scale ess score and	m ve dramatic ir l secured mor	mprove	ement. 75% in
NO VAC	Coord	1 ihatoi	r He	B,T oD/MI	BA		Pri	ncipal	l

Dr. G. Bałakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Ref: IGCE/CIVIL/2018-19/VAC/01

DATE: 13.06.2018

Department of Civil Engineering

Academic Year 2018-2019 - Odd Semester

DEPARTMENT CIRCULAR

Department of Civil Engineering and IGCE in association with TM design technology is going to organize Value Added Course for all second, third, and final year students on "REVIT ARCHITECTURE" from 19.06.2018 to 23.06.2018. Certificates will be issued to the eligible participants at the end of the course. This training is to be provided in our campus.

Resource Person Details:	Mr.M.Thirupathi
	Mr.S.Santhosh
	Trainers
	TM Design Technology
	Coimbatore
Venue:	Civil Seminar Hall

Cc:

- PRINCIPAL OFFICE
- HOD/CIVIL & Faculty Members
- All II,III and IV Year B.E CIVIL Classes
- Notice Board
- Office File

(D).

Pr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

DEPARTMENT OF CIVIL ENGINEERING

Value Added Course on "REVIT ARCHITECTURE"

G. Balakrishnan, M.E., Ph.D.,

SYLLABUS

Principal

Indra Ganesan College of Engineering

		IG Valle	V. Madurai M.
S.NO	TOPIC COVERED	DURATION (in hours)	v. Madurai Main Irdam, DATE 20
1	Introduction to Revitarchitecture basic commands creating and modifying wall creation door, window Creation component column and floor	3	19.06.2018
2	creating and modifying wall creation door, window Creation component column and floor	3	19.06.2018
3	Creation: roof and model text modify:scale,rotate,move and split offset stairs and ramp and railing Creation curtainwall celling and lamp, Edit profile to all object	e 3	20.06.2018
4	stairs and ramp and railing Creation curtain wall celling and lamp, Edit profile to all object	3	20.06.2018
5	Creation:room&area view edit geometry joining wall opening edit face	3	21.06.2018
6	split face &paint material annotate section& elevation	3	21.06.2018
7	Insert: link cad import cad rendering(modifying)&walk through Layout sheet, creation and modify	3	22.06.2018
8	walk through Layout sheet, creation and modify	3	22.06.2018
9	Create and edit family, solid, extrution, blend, revolve, Sweep over all doubt clarification Edit face :split face &paint material annotate section& elevation	3	23.06.2018
10	Edit face :split face &paint material annotate section& elevation	3	23.06.2018
11	Exam	1	23.06.2018
-	Total Hours	30(Excluding test)	



Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12.

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

REPORT ON VALUE ADDED COURSE

Title:

REVIT ARCHITECTURE

Resource Person:

Mr.M.Thirupathi

Mr.S.Santhosh

TM design technology

Coimbatore

Date of conduct from:

19.06.2018

To: 23.06.2018

Duration:

30 Hours

Organized Department:

Civil Engineering

Participant Year: 2,

2, 3, 4

No. of Students Registered:

70

Venue:

Civil Seminar Hall

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Know real-world importance of software in civil engineering
- Know how to perform in civil software in industries.
- Study about importance of civil engineering software's.
- Students are expected to learn and practice the skills they will need in the workplace.
- Develop a foundational understanding of civil software's.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-628 912

ATOR MoD/CI

PRINCIPAL



Academic Year 2018-2019 - Odd Semester

11.12.2018

DEPARTMENT CIRCULAR

Department of Computer Science and Engineering IGCE in association with Blue Fire Xperts Infotech OPC Pvt Ltd is going to organized Value Added Course for BE- II,III,IV and M.E First, Second year students on "Data Mining" from 17.12.18 to 22.12.18. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person	1. Mr. A.R.Sooriyaoli, Managing Director, Blue Fire Xperts Infotech OPC Pvt Ltd, Trichv,
	2. Mr. V.Roshan Trainer Blue Fire Xperts Infotech OPC Pvt Ltd, Trichy
Venue 1	SD LAB
Venue 2	NETWORK LAB

HOD/CSE

Cc:

• Principal Office

• HoD/CSE

• Class In charges - II, III, IV& ME I, II

• II, III & IV-Year PG CSE Students

• Office File

• Notice Board

PRINCIPAL

Dr. G. Balakryhnan, M.E., Ph.D.,



Academic Year 2018-2019 - Odd Semester

Value Added Course on

"Data Mining"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	 What is data mining? Related technologies - Machine Learning, DBMS, OLAP, Statistics Data Mining Goals Stages of the Data Mining Process Data Mining Techniques Knowledge Representation Methods Applications Example: weather data 	3	17.12.18
2	Data Warehouse and OLAP → Data Warehouse and DBMS → Multidimensional data model → OLAP operations → Example: loan data set	3	17.12.18
3	Data preprocessing ➤ Data cleaning ➤ Data reduction ➤ Installing Weka 3 Data Mining System ➤ Experiments with Weka - filters, discretization	3	18.12.18
4	Data mining knowledge representation ➤ Task relevant data	3	18.12.18

Dr. G. Balak ishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Academic Year 2018-2019 - Odd Semester

 Background knowledge Interestingness measures Representing input data and output 		61/6- 6- 1/6-
		1
Representing input data and output		
knowledge		9
Visualization techniques		
> Experiments with Weka - visualization		***************************************
Attribute-oriented analysis	one physics	44
		a pipe i conservante de
_		
1	3	19.12.18
Experiments with Weka - using filters and		1
statistics		
Data mining algorithms: Association rules		7
Motivation and terminology		
	3	19.12.18
Correlation analysis		V
•		be le rennemente le le la company de la le la company de la le la company de la la
association rules		
MULTITHREADING	74.1	
Life Cycle of Thread Java.lang.threadVs		
	3	20.12.18
Synchronization		and the same of th
		no de

Data mining algorithms: Classification		
➤ Basic learning/mining tasks		and the second s
	5	20.12.18
Inferring rudimentary rules: 1R algorithm		
 Inferring rudimentary rules: 1R algorithm Decision trees 		Afficiana and and an analysis
	 Visualization techniques Experiments with Weka - visualization Attribute-oriented analysis Attribute generalization Attribute relevance Class comparison Statistical measures Experiments with Weka - using filters and statistics Motivation and terminology Example: mining weather data Basic idea: item sets Generating item sets and rules efficiently Correlation analysis Experiments with Weka - mining association rules Multi-tasking Vs Multithreading Life Cycle of Thread Java.lang.threadVs Java.lang.runnable Developing Multithreaded Applications Synchronization Dead-Lock Inter-thread communication Data mining algorithms: Classification 	➤ Visualization techniques ➤ Experiments with Weka - visualization Attribute-oriented analysis ➤ Attribute generalization ➤ Attribute relevance ➤ Class comparison ➤ Statistical measures ➤ Experiments with Weka - using filters and statistics Data mining algorithms: Association rules ➤ Motivation and terminology ➤ Example: mining weather data ➤ Basic idea: item sets ➤ Generating item sets and rules efficiently ➤ Correlation analysis ➤ Experiments with Weka - mining association rules MULTITHREADING ➤ Multi-tasking Vs Multithreading ➤ Life Cycle of Thread Java.lang.threadVs Java.lang.runnable ➤ Developing Multithreaded Applications ➤ Synchronization ➤ Dead-Lock ➤ Inter-thread communication Data mining algorithms: Classification

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Markandam, 7000-620 012



Academic Year 2018-2019 - Odd Semester

	Experiments with Weka - decision trees, rules		
Vormassussiala	Data mining algorithms: Prediction		E
	➤ The prediction task	and the state of t	
	Statistical (Bayesian) classification		
9	Bayesian networks	_	
,	Instance-based methods (nearest	4	21.12.18
	neighbor)		de la company de
	➤ Linear models		
	Experiments with Weka - Prediction	To displace the same of the sa	
. 10000	Clustering	The shall of the major and the shall be	Program American organizations
	Basic issues in clustering		
	First conceptual clustering system:		się sięs sans son
	Cluster/2		
	Partitioning methods: k-means,		
10	expectation maximization (EM)	5	22.12.18
	Hierarchical methods: distance-based		render a mandrum
	agglomerative and divisible clustering		Porghamy
	Conceptual clustering: Cobweb		
	Experiments with Weka - k-means, EM, Cobweb		
11	T.		
11	Exam	1	22.12.18
man and debate	Total Hours	36	

VAC Coordinator

HoD/CSE

Dr. G. Balakrichnan, M.E., Fa.O., Principal



Academic Year 2018-2019 - Odd Semester

			Report	on Valu	e Add	ed Co	Durse	······································	
Title:	Data	Minir					The state of the s		1000
Resource	Person:	Ma Blu	r. A.R.Sooriyad naging Directe ne Fire Xperts I I, Trichv,	or,	C Pvt	Traine	ire Xperts In	fotec	h OPC Pv
Date of co			17.12.18	To:	22.12.1		Duration:	361	Hours
Organized	Departr	nent:	COMPUTER	SCIENCE	AND EN	GINEER	ING	-25	,
cardelpant rear:		PG-I,			No. of Students Registered:			UG -106 PG - 09 TOTAL- 115	
	IGCE		FWORK LAB		· sed the supplement of the su				number of the state of the stat
Jutcome Kne	of Valu	e Ad	ded Course (AC): At t	he end o	f the Co	ourse, Stude	nts c	an able to
con	ponent	P	o or ranomonan	ty of the var	ious data	mining a	and data ware	housi	ng
 App Kno 	oreciate the		engths and limit of Explain the	anaryznie le	CHITAITE	OF VOTION	ic data	housi	ng model .
• Des	cribe diff	erent	methodologies	used in data	mining a	nd dote	io uala .		

- Describe different methodologies used in data mining and data ware housing
- Compare different approaches of data ware housing and data mining

Assessment Process

- * Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of

VAC Coordinator

ishnan, M.E., Fh.D., Principal



Department of Electrical and Electronics Engineering

Academic Year 2018-2019 - Odd Semester

06.12.2018

DEPARTMENT CIRCULAR

Department of Electrical and Electronics Engineering of IGCE in association with Smart Power Care is going to organize Value Added Course for all Second, Third and Final year students on "Electrical Machine Design, Winding, Assembling, & Dismantling" from 10.12.2018 to 14.12.2018. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail	1.Ms.Kavitha, Design Engineer, Smart Power Care, Thillai Nagar, Trichy
	2.C.Rajesh Khanna, Trainer Smart Power Care, Thillai Nagar, Trichy.
Venue	EEE II and III yr Classrooms, IGCE

S1. Ma latt

HOD/EEE

PRINCIPAL

Cc:

· Principal office

- Class In charges II, III & IV-Year
- II, III & IV-Year EEE Students
- · Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,



Value Added Course

"Electrical Machine Design, Winding, Assembling, & Dismantling"

SYLLABUS

S.NO	TOTIC COVERED	DURATION (in hours)	DATE
	Introduction about rotating machine and materials used	3	10.12.2018
2	Design of Electrical Windings and MMF distribution	3	10.12.2018
3	DC Machine Windings.	3	11.12.2018
4	AC Machine Windings	3	11.12.2018
5	ELCB Testing	3	12.12.2018
6	Short circuit and open circuit Testing	3	12.12.2018
7	Static Machines - Transformers	3	13.12.2018
8	Oil testing of Transformer	3	13.12.2018
9	Assembling and Dismantling of electrical machine, Dol starter design	3	14.12.2018
10	Design of 2point, 3 point starter and	3	14.12.2018
11	Exam	1	14.12.2018
Oy decidenços	Total Hours (Excluding Exam)	30	

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Report on Value Added Course Title: "Electrical Machine Design, Winding, Assembling, & Dismantling" 1.Mr.Kavitha, Design Engineer, 2.C.Rajesh Khanna, Trainer Resource Persons: Smart Power Care, Smart Power Care, Thillai Nagar, Trichy, Thillai Nagar, Trichy Date of conduct 10.12.2018 To: 14.12.2018 Duration: 30 Hours from: Organized **Electrical and Electronics Engineering** Department: Participant Year: 2,3,4 No. of Students Registered 92 Venue: EEE II and III yr Classrooms

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Design the primary and secondary winding of the motor.
- Analyze the core calculation and the number of windings.
- Analyze the air gap calculation..
- Acquire knowledge in designing of transformer windings, cooling tanks and tubes
- Understands the importance and design of machines based on their applications.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

12 Pamuth

Dr. G. Balakrish Can. M.E. Ph.D.,



Department of Electronics and Communication Engineering

Academic Year 2018-2019 -ODD Semester

03.12.18

DEPARTMENT CIRCULAR

Department of Electronics and Communication Engineering in association with Galwin Technology is going to organize Value Added Course for all Second, Third and Final year students on "PCB DESIGNING" from 10.12.2018 to 14.12.2018. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1.Mr.K.C.TamilVendhan,	\$1000 parties
	The Human Resource Manager,	
	Galwin Technology,	
Resource Persons	Trichy	
	2.Mr.Deepan	
	Trainer	
	Galwin Technology,	
No. of the second secon	Trichy	
Venue	DSP lab and Optical Lab, ECE	ADDRESS ASSESSED IN

Ce:

- Principal Office
- IQAC Coordinator
- Class In-charges-II,III&IV-Year
- II,III &I V-Year ECE Students
- Office File
- · Notice Board

PRINCIPAL

Dr. G. Balakrishnan, M.E., Pin.u.,



Value Added Course on "PCB DESIGNING"

SYLLABUS

S.NO	TOTICCOVERED	DURATION (inhours)	DATE
1	Resistor types, Capacitor types, Diode types, LED, Sevensegment, Timer 555A	3	10.12,2018
2	Stable and mono stable circuits, Transistor As a switch, Relays, Op-amp in comparator mode	3	10.12.2018
3	Introduction to Installation of EAGEL software, Designing of PCB schematic with Leaded components,	3	11.12.2018
4	Documentation using ERC, Direct Board file creation for DC power supply circuit	3	11.12.2018
5	Direct schematic file creation using a RELAYDRIVERCIRCUIT BOARD	3	12.12.2018
6	Designing of PCB layout technique with leaded components, Documentation using DRC, Auto Routing techniques,	3	12.12.2018
7	Gerber file creation for your board file, Polygon, New component creation technique	3	13.12.2018
}	Layer study, Double layer creation, Multi Layer creation and script, making of a PCB of DC power supply circuit	3	13.12.2018
harron destrom	Drilling, Soldering of components and Testing of DC power supply circuit	3	14.12.2018
)	Fabrication of PCB designing, Testing and trouble shooting of MINI PROJECT circuit	3	14.12.2018
	Exam	1	14.12.2018
r_stream.	Total Hours(Excluding Exam)	30	17.12.2U10

and the

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

	y mma	taline talia Median december and	Report	on Va	lue Adde	d Course	3	
Title:	PC	PCB DESIGNING						
Resource Person: Mr.K.C.TamilVendhan, The Human Resource Manager, Galwin Technology, Trichy			Tr: Ga	Mr.Deepan Trainer Galwin Technology, Trichy				
From:	condu	ct 10.12.2018	To: 14.	12.2018	Duration:	30 Hours	VALUE VIII AND THE STATE OF THE	
Organiz Departm		ELECTRO	ONICS A	AND CO	DMMUNI(CATION EN	NGINEERING	
Particip Year:	oant	2,3,4	d a naghar di ny mang 1988 ki mandad di dipunchana na manya mga	No.of Regist	Students		72	
√enue		ab and Option			a) element gå as at element g	and designing 1 are a second s		
Outcon	ie of	Value Added C	ourse :A	t the end	of the Cou	rse, Students	can able to	
• K	sbremr	the vasie cone	f EAGEL	SOFTW. nd Gerbe	atic and Rela ARE& creation	y Driver Circ on of DC Por	er555andOp-amp cuit Board wer Supply Circuit	
• Kı • Ex	ow th	e Soldering of co	mponents	and testin	g of DC powe	r supply circui	it	
• Kı • Ex	ow th	me vouting tec	mponents ting of MI	and testin NIPROJE	g of DC powe	r supply circui	t	

VAC Coordinator

HOD/ECE

ri cipal

Dr. G. Balakrishnan, M.E., Ph.D., Principal



Department of Mechanical Engineering

Academic Year 2018-2019 -ODD Semester

Date: 01.11.2018

DEPARTMENT CIRCULAR

Department of Mechanical Engineering of IGCE association with "CADD Centre, Trichy" is going to organize Value Added Course for all II and III, IV year students on "Introduction to CAD, CAM & Practical CNC Machining" from 05.11.2018 to 09.11.2018. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1. Mr. Balaji
Resource Person Details	Trainer
resource i cison Details	CADD centre
	Trichy
	2. Mr. Prabahar
	Trainer
	CADD centre
	Trichy
Venue	Mechanical Seminar Hall,IGCE

нов/месн

PRINCIPAL

Cc:

• Principal office

IQAC Coordinator

• Class In charges - II, III & IV Year

Office File

Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



Value Added Course

"Introduction to CAD, CAM & Practical CNC Machining"

SYLLABUS

a NO	TOPIC COVERED	DURATION (in hours)	DATE
S.NO		3.	05.11.2018
1	Introduction to CAD, CAM & CNC Machining		
2	Get foundational knowledge in computer aided design, manufacture, and the practical use of CNC	3	05.11.2018
	machines for milling.	3	06.11.2018
3	Explore how to properly sketch and model 3D	3	001111
3	parts.	3	06.11.2018
4	Explore the basics of setting up a CAM program Explore the basics of setting up a CAM program	3	00.22.
4	and defining tool paths to cut simple geometry.	3	07.11.2018
5	Explain the CAD design process as applied to	3	
3	prismatic parts.	3	07.11.2018
6	Workflow of digital manufacturing.		08.11.2018
	Demonstrate knowledge and skills in basic Fusion	3	08.11.2010
7	200 0411		08.11.2018
	Recall foundational knowledge of practical CNC	.3	08.11.2010
8	and a chining	_	09.11.2018
	New tytorials that explore thin Extrude, CAM	3	
9	tool library NC Program, and sheet setup.	3	09.11.2018
10	Updated practice and challenge exercises.	1	09.11.2018
11	Evam		-
	Total Hours (Excluding Assessment)	30	

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D., Principal



Madural Main Road (NH-45B), Manikandam, Trichy Approved by AICTE, NewDelni & Affiliated to Anna University, Chennal

Dr. G. Balakfishan; M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

	Report on	Valu	e Ad	ded	Course		
Title:	Introduction to	Introduction to CAD, CAM & Practical CNC Machining					ning
Resource Person:	Mr. Prabahar Trainer CADD centre Trichy		Mr. Balaji Trainer CADD centre Trichy				
Date of conduct from:	05.11.2018	To:	09.11	.2018	Duration:	20 T	lours
Organized Department:	MECHANICAI	MECHANICAL ENGINEERI				30 F	10urs
Participant Year:	2,3,4	224				1	1 100
Venue:	Mechanical Semir				Io. of Students Registered: 100		106

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Know to explain the CAD design process as applied to prismatic parts.
- Know how to summarize the workflow of digital manufacturing..
- Students are expected to learn and practice the skills they will need in the workplace.
- Know to recall foundational knowledge of practical CNC machining.
- They receive required training on CAD, CAM & Practical CNC Machining.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of

VAC Coordinator



Department of Information Technology

Academic Year 2018-2019 -ODD Semester

11.12.2018

DEPARTMENT CIRCULAR

Department of Information Technology in association with Marcello Tech, Chennai is going to organize Value Added Course for all Second, Third and Final year students on "Future of AI&ML in Information Technology" from 17.12.2018 to 22.12.2018 Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1.Mr.M.SenthilKumar,
	Chief Executive Officer
D D. 17.	Marcello Tech, Chennai.
Resource Person Detail	
	2.Mr.Pradeep Kumar
	Chief Executive Officer
	Marcello Tech, Chennai.
Venue	IT Seminar Hall, IGCE

Leut

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

PRINCIPAL

Cc:

- Principal office
- Class In charges II, III & IV-Year
- II, III & IV-Year IT Students
- Office File
- Notice Board



Value Added Course

"Future of AI&ML in Information Technology"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to artificial Intelligence	3	17.12.18
2	Foundations of Artificial Intelligence,	3	17.12.18
3	History of Artificial Intelligence	3	18.12.18
4	Informed (Heuristic) Search Strategies	3	18.12.18
5	Local Search and Optimization Problems.	3	19.12.18
6	Heuristic Alpha-Beta Tree Search	3	19.12.18
7	Partially Observable Games	3	20.12.18
8	Knowledge Engineering in First-Order Logic	3	20.12.18
9	Knowledge Engineering in First-Order Logic	3	21.12.18
10	Reasoning with Default Information	3	21.12.18
11	Planning and Acting in Nondeterministic Domains	3	22.12.18
12	Analysis of Planning Approaches	2	22.12.18
13	Exam	1	22.12.18
	Total Hours (Excluding Exam)	36	*

AC Coordinates

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. Luig HOD/IT



REPORT ON VALUE ADDED COURSE

Title:

"Future of AI&ML in Information Technology"

Resource Person:

Mr.M.SenthilKumar, Chief Executive Officer

Marcello Tech, Chennai.

Mr.PradeepKumar

Chief Executive Officer Marcello Tech, Chennai.

Date of conduct from:

17.12.2018

To:

22.12.2018

Duration:

36 Hours

Organized Department:

Information Technology

Participant Year:

2,3,4

No. of Students Registered:

80

Venue:

IT Seminar Hall

Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to

- Identify and apply suitable Intelligent agents for various AI applications
- Build smart system using different informed search / uninformed search or heuristic approaches
- Identify knowledge associated and represent it by ontological engineering to plan a strategy to solve given problem
- Implement ideas underlying modern logical inference systems
- Represent complex problems with expressive yet carefully constrained language of representation
- Discuss the Future of AI &ML in education

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% inattendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

HoD/IT

rincipal

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



1 34

Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chenna

Department of Science and Humanities Academic Year 2018-2019 -Odd Semester

05.12.2018

DEPARTMENT CIRCULAR

Department of Science and Humanities in association with Mecello Tech is going to organize Value Added Course for all first year students on "Computer Fundamentals" from 10.12.2018 to 14.12.2018. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Venue	Auditorium, IGCE
Resource Person Detail	2. Mr.S.Aravindh Team Leader, Mecello, Tech, Chennai
	1. Mr.M.Senthilkumar Managing Director, MecelloTech, Chennai

HOD/S&H

PRINCIPAL

Cc:

- Principal office
- HoD/S&H
- Class In charges I-Year
- I-Year S&H Students
- Office File
- NoticeBoard

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Value Added Course

"Computer Fundamentals"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Knowing computer	3	10.12.2018
2	Operating Computer using GUI Based Operating System.	3	10.12.2018
3	Understanding Word Processing	3	11.12.2018
4	Using Spread Sheet	3	11.12.2018
5	Introduction to Internet, WWW and web browsers		12.12.2018
6	Communications and Collaboration	3	12.12.2018
7	Making small presentation	3	13.12.2018
8	Understanding URL; Domain name; IP Address	3	13.12.2018
9	Basics of electronic mail; Getting an email account; Sending and receiving emails	3	14.12.2018
10	Racics of presentation coffrage Creating		14.12.2018
11	Exam	1	14.12.2018
	Total Hours (Excluding Exam)	30	-

T. Kalaivani

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Inder Concess College of Eighinerings JG Valley, Maddrai Main Road: Manikandam, Trichy-629 0122



Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-458), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Para 4 . a				ue Ado	led Cour	se	
Title:	"Compute	uter Fundamentals"					
Resource Person:		Mr. M. Senthilkumar Managing Director, Mecello, Tech, Chennai		Mr. S. Aravindh Team Leader, Mecello, Tech, Chennai			
Date of co	nduct from:	10.12.2018	То:	14.1	2.2018	Duration:	30 Hours
Organized	Department:	SCIENCE AN	ID HUM	ANIT	IES	en de agrant	The state of the s
Participant	Year: 1	1		No. of Students Registered:		123	
Venue:	AUDITORI	UM				Madra de Maria de Mar	
Outcor	ne of Value	Added Course (V	AC): A1	the e	rd of the	Course, Stude	ents can able to
l . Handle 2. Enumer 3. Perform binary a 1. Differer	a computer rate different basic arithmetic atiate between	system for day to types of input/ netic operations on system and apply spreadsheets.	o day us output d using d	se. levices ifferer	s and type at numbe	es of memory	. ·
		As	sessmen	t Proc	ess	Populary Sellens	
attendan	ce is eligible ore = $(0.5 *A)$	to receive the cer	tificate fo	or the V	AC cour	se conducted	more than 75% in
T- ke	oordinator	нф/ѕ&н	7	***************************************	Print	ipal	

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



DEPARTMENT OF MANAGEMENT STUDIES Academic Year 2018-2019 – Odd Semester

20.06.2018

Ref: IGCE/MBA/2018-19/VAC/01

DEPARTMENT CIRCULAR

Department of Management Studies, IGCE in association with M/s White & Black Digital Marketing organizing "Enrichment Programme on Personality for Entrepreneurship" Value Added Course for II MBA students from 25.06.2018 to 29.06.2018. Certificates will be issued to all eligible students at the end of the Course.

Interested students can register their names with the VAC Co-ordinator Mrs.N.Minipriya on or before 22th June 2018.

Resource Person:	Mr.V.Arunkumar / MD M/s White & Black Digital Marketing
	Trichy
Venue:	MBA Seminar Hall

HOD/MBA

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Cc:

- Principal Office
- HoD/ MBA
- II -Year MBA Students
- Notice Board



"Enrichment Programme on Personality for Entrepreneurship"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Entrepreneurial Skill Sets	3	25.06.2018
2	The Entrepreneurial Eco-system	3	25.06.2018
3	Idea to Action	3	26.06.2018
4	Value Addition	3	26.06.2018
5	Scale up	3	27.06.2018
6	Scalability, Scaling up and Stabilization of Sustainable Business	3	27.06.2018
7	Risk Management Strategies	3	28.06.2018
8	Leadership	3	28.06.2018
9	Types of New Age Business	3	29.06.2018
10	MSME	3	29.06.2018
11	Exam		29.06.2018
	Total Hours	30	-

HOD/MBA

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

PRINCIPAL



Report on Value Added Course

Title:

Enrichment Programme on Personality for Entrepreneurship

Resource Person:

Mr.V.Arunkumar

MD

M/s White & Black Digital Marketing

Trichy.

Date of conduct from:

25.06.2018

To: 29.06.2018

Duration:

30 Hours

Organized Department : | MANAGEMENT STUDIES

Participant Year: 2 Year MBA

No. of Students Registered:

Venue:

MBA Seminar Hall

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Students will be able to guide promoters and key role holders of start-ups for setting up, stabilizing and scaling up of new enterprises with due regard to the dynamics of entrepreneurial ecosystem.
- They will attain abilities to assist the management in implementing innovative ideas for adding values to the products and organisation, stabilise operations and scaleup with appropriate execution of business plans.
- Students will be equipped with skill sets to assist entrepreneurs in leading start-up entities, meeting challenges and mitigating risks by risk-enabled operating strategies, building competitive advantages and adopting measures for result-oriented performance management.
- They will acquire skill set to perform valuation to facilitate fund raising and devising appropriate exit strategies for early-stage investors.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

HoD/MBA

Principal

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Ref: IGCE/CIVIL/2018-19/VAC/01

DATE: 05.12.2018

Department of Civil Engineering

Academic Year 2018-2019 Even Semester

DEPARTMENT CIRCULAR

Department of Civil Engineering and IGCE in association with TM design technology is going to organize Value Added Course for all second, third, and final year students on "Importance of civil Engineering Software's" from 10.12.2018 to 14.12.2018.certificates will be issued to the eligible partcipants at the end of the course. This training is to be provided in our campus.

Resource person Details	1.Mr.A.Ramasamy Technical Head 2.Mr.G.Siva Trainer TM Design Technology Coimbatore
Venue:	Civil Seminar Hall

HoD/CIVIL

Principal

Cc:

- PRINCIPAL OFFICE
- HOD/CIVIL & Faculty Members
- All II,III and IV Year B.E CIVIL Classes
- Notice Board
- Office File

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



DEPARTMENT OF CIVIL ENGINEERING

Value Added Course on "IMPORTANCE OF CIVIL ENGINEERING SOFTWARES"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1.	Introduction of Civil Engineering Software's	3	10.12.2018
2.	Application of Civil Engineering	3	10.12.2018
3.	Uses of Civil Engineering Software's	3	11.12.2018
4.	Involve of Civil Engineering Software's	3	11.12.2018
5.	To Explain Drafting and Design Software	3	12.12.2018
6.	To Explain Structural Analysis and	3	12.12.2018
7.	To Explain 3d modeling software's	3	13.12.2018
8.	To Explain structural Project Management Software's	3	13.12.2018
9.	Job opening of Civil Engineers	3	14.12.2018
10.	Conclusion	3	14.12.2018
11.	Exam	1	
	Total Hours	30(Excluding test)	

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,



			Report	On Value	Added Course		
Title:	IMPO	IMPORTANCE OF CIVIL ENGINEERING SOFTWARES					
Resource	Person:	G.SI TRA	A RAMASAMY, IVA MNER, DESIGN TECHI			Ξ.	
Date of c	onduct fro	om:	10.12.2018	To:	14.12.2018.	Duration:	30 Hours
Organize	d Departi	nent :	CIVIL ENGINI	ERING			
Participa	nt Year.	2, 3,	4		No. of S	Students Regist	ered: 70
Venue:	CIVILS	EMIN	AR HALL				
• K • K • S	now real- now how tudy about tudents ar	world to per it impo e expe	Added Course (importance of so form in civil soft ortance of civil en ected to learn and ational understand	ftware in ware in in gineering practice t	civil engineering dustries. software's. he skills they wil		
				Assessmen	It Process		

VAC Coordinator

100 marks)

HoD/CIVIL

• Students, who are securing more than 60% on total score and secured more than 75% in

• Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of

attendance is eligible to receive the certificate for the VAC course conducted

Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Academic Year 2018-2019 - Even Semester

4.06.2019

DEPARTMENT CIRCULAR

Department of Computer Science and Engineering IGCE in association with Flink Technologies is going to organized Value Added Course for BE-II,III,IV and M.E First, Second year students on "C#" from 10.06.2019 to 15.06.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person	1. Mrs. Sankari, Project Manager, Flink Technologies
	2. Mr. M. Krishnan Trainer Flink Technologies
Venue 1	SD LAB
Venue 2	NETWORK LAB

HOD/CSE

Cc:

- Principal Office
- HoD/CSE
- Class In charges II, III ,IV& ME I,II
- II, III & IV-Year PG CSE Students
- · Office File
- Notice Board

PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Academic Year 2018-2019 - Even Semester

Value Added Course on

"C#"

SYLLABUS

S.NO	TOTTO COVERED	DURATION (in hours)	DATE
Person	INTRODUCTION ➤ The .NET Framework - an Overview ➤ Framework Components ➤ MSIL / Metadata and PE files. ➤ The Common Language Runtime (CLR)s	3	10.06.2019
2	C # Language Syntax ➤ Why Datatypes Global, Stack and Heap Memory ➤ Common Type System ➤ Casting between other datatypes	3	10.06.2019
3	OOPs-Inheritance ➤ Introduction to Inheritance ➤ Static and Dynamic Binding ➤ Abstract Class	3	11.06.2019
4	OOPs-Interface & Polymorphism > Overview of Interface > Interface with examples > Types of Inheritance	3	11.06.2019
5	Assemblies and GAC What is a DLL and how is it different from EXE Types of DLL Types of Assemblies Global Assembly Cache	3	12.06.2019
6	Exception Handling ➤ Defining Exception ➤ Understandings try and catch keywords ➤ Creating User defined/Custom Exception class	3	12. 06.2019
7	IO Streams ➤ What is a streams? ➤ Serialization / Deserialization	3	13. 06.2019
8	Developing GUI Application Using WINFORMS	5	13. 06.2019

Dr. G. Balak Ishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Academic Year 2018-2019 - Even Semester

	Total Hours	36	1. J. VV-4V17
11	Exam	1	15, 06,2019
10	Packaging and Deployment ➤ File System Editor Registry Editor ➤ Launch Condition Editor ➤ Creating Uninstall Shortcut	5	15. 06.2019
9	Database Programming Using ADO.NET ➤ Prerequisite - Knowledge of SQL Queries ➤ Introduction and Evolution of ADO.NET ➤ How to implement Login facility with database ➤ Use of Multiple Active Result Sets	4	14. 06.2019
	 Basic Controls Panel & Layouts Drawing and GDI Devices Working with Resource Files and Setting Notify Icon Controls 		

VAC Coordinator

HoD/CSE

Dr. G. Balakrishnan, M.E., Ph.D., Principal



Academic Year 2018-2019 - Even Semester

	1 to gate	****	Report or	ı Valu	e Add	ed C	ourse	mer franchisch	
Title:	C #			The state of the s	OF THE OWNER OF THE PARTY OF THE OWNER OWN			ned	·//
Resourc	ee Person:	Pro Flin	s. Sankari, ject Manager, k Technologies, nbakonam	*		Train	M. Krishnan, ier Flink Tecl bakonam	hnolog	gies
Date of	Date of conduct from:		10.06.2019	To: 15.06.2019 Duration: 36]			Hours		
Organiz	ed Depart	ment:	COMPUTER SO	CIENCE .	AND EN	SINEER	RING		marri e elektri andikkoja polije prograda
Participant Year: UG-1 PG-I		I,III,IV II			No. of Students Registered: UG -106 PG - 09 TOTAL-11				
Venue:	SD LAB IGCE	& NE	TWORK LAB		***************************************	auto dibegnas go	***	44/792-39*****	The second secon
Outco	me of Va	lue Ac	lded Course (V.	AC): At	the end	of the (Course, Stud	ents	can able to
. V	novy cond	wal Irm	owledge in reco	J4. 04	DATE CHEE	OF CHE	compe, stud	CALES	can able to

- Know general knowledge in regard to C# programming language
- Gain knowledge in regard to general programming concepts.
- Develop comprehend C# cod.
- Apply the concepts of JDBC, Transaction processing, statement objects and Resultset to perform operations on Database
- Develop distributed web application using RMI, Servlets and JSP.
- Apply the concept of Cookies, Session, Enterprise JavaBeans and JAR files to develop server side applications

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madural Main Road Manikandam, Trichy-620 012.



Department of Electrical and Electronics Engineering

Academic Year 2018-2019 - EVEN Semester

19.06.2019

DEPARTMENT CIRCULAR

Department of Electrical and Electronics Engineering of IGCE in association with Micro win Automation, is going to organize Value Added Course for all Second, Third and Final year students on "Develop and Implementation of Renewable Energy systems using MATLAB" from 24.06.2019 to 28.06.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail	 Ms.G.Vijaya, Trainer, Micro win Automation, Tiruchirappalli-621216 Mr.K.Ranganathan, Trainer, Micro win Automation, Tiruchirappalli-621216 			
Venue	Power System Simulation Lab, IGCE			

HOD/EEE

SI. Ma lath

Cc:

· Principal office

- Class In charges II, III & IV-Year
- II, III & IV-Year EEE Students
- Office File
- · Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Value Added Course

"Develop and Implementation of Renewable Energy systems using MATLAB"

SYLLABUS

s.no	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to power generation	3	24.06.2019
2	Solar Thermal Power Generation	3	24.06.2019
3	Solar Photovoltaic Power Generation	3	25.06.2019
4	Wind Power Generation	3	25.06.2019
5	Hydro Power Generation	3	26.06.2019
6	Energy Storage, Energy Economics	3	26.06.2019
7	Introduction to power generation using MATLAB design	3	27.06.2019
8	Design and modeling of Solar Photovoltaic Power Generation using MATLAB	3	27.06.2019
9	Design and modeling of Wind Power Generation using MATLAB	3	28.06.2019
10	Design and modeling of Hydro Power Generation using MATLAB	3	28.06.2019
11	Exam	1	28.06.2019
	Total Hours (Excluding Exam)	30	***

VAC Coordinator

HOD/EEE

Gr. Ma lathi

Dr. G. Balakrishnan, M.E., Ph.D.,



REPORT ON VALUE ADDED COURSE

Title: "Develop and Implementation of Renewable Energy systems using MATLAB"

Resource Person: Mr.G.Vijaya, Trainer, Micro win Automation, Tiruchirappalli-621216

Date of conduct from: 24.06.2019 To: 28.06.2019 Duration: 30 Hours

Date of conduct from: 24.06.2019 To: 28.06.2019 Duration

Organized Department : | Electrical and Electronics Engineering

Participant Year: 2,3,4 No. of Students Registered: 92

Venue: | Power System Simulation Lab

Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to

- Understand the simulation tools in MATLAB/Simulink for solving Electrical Engineering problems related to renewable energy.
- Recognize various tool boxes used for renewable energy application development.
- Examine the methods for Troubleshooting in various simulation tools.
- Gain knowledge about working principle of various solar energy systems.
- Implement and verify control strategies in the simulation platform for renewable energy applications.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator

Gr Ma Lathi HOD/EEE

Principal

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Department of Electronics and Communication Engineering

Academic Year 2018-2019 - EVEN Semester

10.06.2019

DEPARTMENT CIRCULAR

Department of Electronics and Communication Engineering in association with Hitakey Infosys, is going to organize Value Added Course for all Second, Third and Final year students on "RASPBERRY PI" from 17.06.2019 to 21.06.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Venue	DSP lab and Optical Lab, ECF
the second to the second secon	Trichy
	Hitakey Infosys,
	Trainer,
Resource Person Detail	2. Mr.R.Hemnath,
	Trichy
	Hitakey Infosys,
	Technical Head,
	1. Mrs.Shalom Jerlin,

Cc:

- Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year ECE Students
- Office File
- Notice Board

PRICIPAL

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Value Added Course

"RASPBERRY PI"

SYLLABUS

S.NO	TOTAL COVERAGE	DURATION (in hours)	DATE
1	Introduction to RASPBERRY PI, Versions of Raspberry Pi and their differences, Raspberry Pi B+	3	17.06.2019
2	Preparing SD card for OS installation, Download image	3	17.06.2019
3	First time configuration using whole SD card, whole screen, Changing time zone	3	18.06.2019
4	Setting up using GUI, Setting up using command line, Finding Pi's IP address, GPIO setup	3	18.06.2019
5	Raspberry Pi using secure shell, putty test and configure, PI over VNC, Installing VNC, Configuring VNC, Running VNC at startup	3	19.06.2019
6	Test and configure LINUX, Understanding Linux, File structure, Linux commands, Permissions	3	19.06.2019
7	Python Essentials, Interpreted languages, Variables, Keywords, Operators and operands, Data types	3	20.06,2019
8	Flow control, Condition statement, Loops, Importing libraries, Functions, Classes	3	20.06.2019
**************************************	Accessing SMTP inbox using Python, Manipulating GPIO pins using Python, Making Raspberry Pi- a web server, Apache installation	3	21.06.2019
-to span spile - most	Configuring and deploying Apache, Hosting a website, Hosting a blog on Raspberry Pi, Home automation using Raspberry Pi	3	21.06.2019
1	Exam	1	21.06.2019
	Total Hours (Excluding Exam)	30	and the second s

drif

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.

Principal



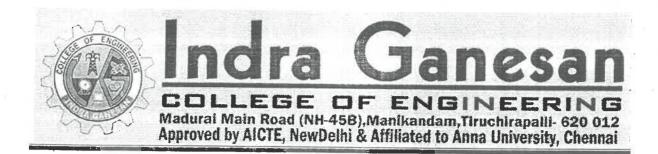
Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

		Report on	Value	e Ad	ded Co	ourse	g Briggs o Step of Andre	
Title:	RASIDERI	NY DI.	9 N N N N			restriction (per an experience) per secret (m24 (24) (4)		
Resource	Person: Tec	Mrs.Shalom Jerlin, Technical Head, Hitakey Infosys, Thichy		Mr.R.Hemnath, Trainer, Hitakey Infosys, Trichy				
Date of co	onduct from:	17.06.2019	To:	To: 21.06.2019		Duration:	30 Hours	
Organized Department ELECTRONICSAND COMMUNICATION ENGINEERING:						to the Market Market Market School and Administration for some August Americans		
Participan	t Year: 2, 3,	4	· · · · · · · · · · · · · · · · · · ·	Poddesteedeminuma (p. liinii	No. of St	udents Registe	ered:	72
Venue:		d Optical Lab,ECI		the en	d of the (ourse Stud	ants a	an able to
 Kn Exp Kn Dat 	ow the version ow the Setting plain the instal ow the Essenti a types plain the Makin	ns of Raspberry Pi a up using GUI, Setting lation of VNC and coals of Python, Interpretals of Raspberry Pi as a tomation using Raspberry	nd their g up using onfiguration eted languration web servery Pi	difference g common of Li uages, V	nces and line, Fi INUX	nding Pi's IP ac	ldress	
	ANTANA	Assessment Proc	ess		Kr. shinay		-	NON-AMBRECACHE - VECA 1998 AND SANCHARAN
attendan	ce is eligible to ore = (0.5 *At	curing more than to receive the certificatendance in VAC or	cate for	the VA	C course c	onducted		
AC Coordin	nator	/	Week HoD/EC	100			Print	pal

Dr. G. Balakrishnan, M.E., Ph.D., Principal



Department of Mechanical Engineering

Academic Year 2018-2019 EVEN Semester

Date: 05.06.2019

DEPARTMENT CIRCULAR

Department of Mechanical Engineering of IGCE association with "CADD Centre, Trichy" is going to organize Value Added Course for all II and III, IV year students on "Model Based Systems Engineering" from 11.06.2019 to 15.06.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Details	1. Mr. Balaji
	Trainer
	CADD centre
	Trichy
	2. Mr. Jaya kumar
	Trainer
	CADD centre
	Trichy
Venue	Mechanical Seminar Hall, IGCE

понут Се:

• Principal office.

• Class In charges - II, III & IV Year

• Class Rooms of II,III,IV Year

• Office File

· Notice Board

PRINCIPA

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



Value Added Course

"Model Based Systems Engineering"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Model-based Systems Engineering and Object- Process Methodology	3	11.06.2019
2	OPM Objects, Processes, and States	3	11.06.2019
3	Relations between Things	3	12.06.2019
4	Creation and consumption of objects	3	12.06.2019
5	Transitions between object states	3	13.06.2019
6	System aspects: Function, structure, and behavior	3	13.06.2019
7	Object-Process Language	3	14.06.2019
8	The System Diagram	3	14.06.2019
9	System purpose, beneficiary, and benefit	3	15.06.2019
10	System function: Main process and its operand	3	15.06.2019
11	Exam	1	15.06.2019
	Total Hours (Excluding Assessment)	30	_

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Title:	Model Rosed S						
	Model Based S	ystem	is Engine	ering			
Resource Person:	Mr. Balaji Trainer CADD center Trichy			Mr. Jaya kumar Trainer CADD center			
Date of conduct from:	11.06.2019	To:	15.06.2	Trichy Duration:		20 Tr	
Organized Department:	Mechanical Eng	Mechanical Engineering				30 Hours	
Participant Year:	2,3,4			o of Si	tudonto David	1 46	
Venue:	Mechanical Semi	No. of Students Registered: 106 Mechanical Seminar hall					

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Know to explain the Model-based Systems Engineering and Object-Process Methodology
- Know how to Creation and consumption of objects
- Learnt and Demonstrate Object-Process Language
- Students are expected to learn and practice the Problem occurrence
- Know to recall Refining synchronous processes: In-zooming
- They receive required training Link uniqueness and model fact representation principles

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of

Principal

Dr. G. Balakrishnan, M.E., Ph.D. Principal Indra Ganesan College of Engineering IG Valley, Madural Main Road Manikandam, Trichy-52:1012.



Department of Information Technology

Academic Year 2018-2019 - EVEN Semester

02.04.2019

DEPARTMENT CIRCULAR

Department of Information Technology in association with **Flink Technologies** is going to organize Value Added Course for all Second, Third and Final year students on "Android App Development" from 08.04.2019 to 13.04.2019 Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1.Mrs.Sankari
	Project Manager
	Flink Technologies,Chennai
Resource Person Detail	
	2.Mrs.Vidhyasri
	Project Manager
	Flink Technologies,Chennai
Venue	IT Seminar Hall, IGCE

Luif HOD/IT Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madural Main Road
Manikandam, Trichy-620 012.

N PŘÍNCIPAL

Cc:

- Principal office
- Class In charges II, III & IV-Year
- II, III & IV-Year IT Students
- Office File
- Notice Board



Value Added Course

"Android App Development"

SYLLABUS

s.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Android	3	08.04.2019
	BasicBuilding Blocks-Activities, services	3	08.04.2019
2		3	09.04.2019
3	First sample Application Emulator- Virtual Device	3	09.04.2019
5	Android- Virtual Device	3	10.04.2019
6	Editing emulator settings	3	10.04.2019
	Applying Themes via code manifest file	3	11.04.2019
7 8	Maps, ,Location based services	3	11.04.2019
	GPS,Location based services	3	12.04.2019
9	Network connectivity services	3	12.04.2019
10	Layouts and drawable resources	3	13.04.2019
11	Activities and activity lifestyle	2	13.04.2019
12	Activities and activity Activities	1	13.04.2019
13	Exam Total Hours (Excluding Exam)	36	10.0

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



REPORT ON VALUE ADDED COURSE											
Title:	Title: "Android App Development"										
Resource											
Person: Project Manager Project Manager											
		FlinkTe	chnologies,Chennai	i			FlinkTechno	ologies	5,		
Chennai											
Date of cor	nduct	from:	08.04.2019	To:	13.04	.2019	Duration:	36 H	lours		
Organized	Depar	tment :	Information Tech	nology							
Participant	Year:	2,3,4				No. of Stu	idents Registe	red:	80		
Venue:	IT Ser	ninar H	all								
Outcome o	of Val	ue Adde	d Course (VAC): A	t the ei	nd of th	ne Course,	Students can	be ab	ole to		
To des	igning	and build	ing mobile application	s using	Android	d open-sourc	e platform				
Develo	ping fo	or Androi	d through its main appl	lication	develop	ment buildi	ng blocks				
Encour	ages st	udents to	learn by building incre	easingly	more s	ophisticated	and meaningfu	l mobi	le applications		
Build a	Twitte	er app for	Android, but there are	other c	hoices d	lepending or	n participants' in	iterests			
Combin	nation	of lecture	and laboratory course	which v	will help	the student	understand the	philos	ophy of		
develop	oing for	r Android	I								
				Asses	ssment	Process					
 Students, who are securing more than 70% on total score and secured more than 75% inattendance is eligible to receive the certificate for the VAC course conducted Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 											
marks)				^	α			1	•		
VAC Coore	dinato	or]	lu HoD/I	P			Prin	cipal		

Dr. G. Balakrishnan, M.E., Ph.D.,



Department of Science and Humanities

Academic Year 2018-2019 - Even Semester

09.05.2019

DEPARTMENT CIRCULAR

Department of Science and Humanities in association with Mecello Tech is going to organize Value Added Course for all first year students on "An advance approach to web designing" from 13.05.2019 to 17.05.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1. Mr.M.Senthilkumar
	Managing Director,
	Mecello Tech, Chennai
Resource Person Detail	2. Mr.S.Aravindh
	Team Leader,
	Mecello, Tech, Chennai
Venue	Auditorium, IGCE

HOD/S&H

PRINCIPAL

Cc:

- · Principal office
- HoD/S&H
- Class In charges I-Year
- I-Year S&H Students
- Office File
- Notice Board

10.

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Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Value Added Course

"An advance approach to web designing"

SYLLABUS

s.no	TOPIC COVERED	DURATION (in hours)	DATE
1	Designing and Planning Web Pages	3	13.05.2019
2	Creating Pages with HTML	3	13.05.2019
3	Formatting Web Pages with Style Sheets	3	14.05.2019
4	Graphic	3	14.05.2019
5	Scripting	3	15.05.2019
6	Quality Control	3	15.05.2019
7	Website Management and Authoring Tools	3	16.05.2019
8	Client Website	3	16.05.2019
9	Career Development	3	17.05.2019
10	Client Website-Planning, Constructing	3	17.05.2019
11	Exam	1	17.05.2019
	Total Hours (Excluding exam)	30	-

T. Kalaiani

VAC Coordinator

HoD/S&H

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Tista.	" An advar	ice approach to v	on Value web desi	gning"				W 959
Title: "An advi		Mr. M. Senthill Managing Dire Mecello Tech, C	kumar ector,	s y	Mr. S. Aravindh Team Leader, Mecello Tech, Chennai			i
Date of c	onduct from:	11.03.2019	To:	15.03.	2019	Duration:	30	Hours
		SCIENCE AN	D HUM	ANITI	ES			
Organize Participa	Department:	SCILLION IN			No. of S Register			123
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Total	dance is eligible. Score = (0.5 * narks)	securing more the contract of	han 70% ertificate AC out of	6 on to for the f 100 pe	otal scor VAC co	re and secured urse conducted : + 0.5 *Test n	l mo l lark i	re than 75% in VAC out of
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DEPARTMENT OF MANAGEMENT STUDIES

Academic Year - 2018-19 Even Semester

05.12.2018

Ref: IGCE/MBA/2018-19/VAC/10

DEPARTMENT CIRCULAR

Department of Management Studies IGCE in association with Trytax Professionals organizing "Managerial Accounting Using Tally" Value Added Course for all Final year MBA students from 17.12.2018 to 21.12.2018. Certificates will be issued to all eligible students at the end of the Course.

Interested students can register their names with the VAC Co-ordinator Mrs.N.Minipirya on or before 13th December 2018.

Resource Person: Venue:	Mr.Sudharsan / MD Trytax Professionals Trichy
· VIIIV,	MBA Seminar Hall

HOD/MBA

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Cc;

- Principal Office
- HoD/MBA
- II -Year MBA Students
- Notice Board



Value Added Course on "Managerial Accounting Using Tally"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
	Accounting: Double Entry System:	3	17.12.2018
2	Journal, Ledger, Trial balance: Profit and loss A/c:	3	17.12.2018
3	Assets: Liabilities / Advantages of Tally	2	1
4	Opening Tally and creating a company	3	18.12.2018
5	Gateway of tally	3	18.12.2018
********	Creating, Altering and	3	19.12.2018
6	Displaying ledger	3	19.12.2018
7	Main Differences between Group and ledger in tally 9 / Inventory Info.	. 3	20.12.2018
8	Account voucher entry/ Voucher alteration and deletion	3	20.12.2018
9	VAT (value added tax):	3	
10	TDS (Tax Deducted at source)	and the same of th	21.12.2018
11	Exam	3	21.12.2018
	A/AGII		21.12.2018
	Total Hours	30	hearrynge, lakapp davlaurane, est vic famis

B MOD/MBA

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

			Report on	Value	Ad	ded Co	ourse	.a ngu	Mindfield, intending informational international
Title:	Mana	geria	Accounting						Activation and September 1995 of the Septemb
Resource	Person:		Sudharsan / M ax Professiona hy		garage and a	Pin-Affart (Maffarettategan at den afrejden		www.dddddin.orgun.gogadddd	Mikipidelipuntugaaksa Errorio — 1 yyy vyagyystiin
Date of co	nduct fro	m:	17.12.2018	To:	21.12	.2018	Duration:	301	Hours
Organized	Departm	ent :	MANAGEMI	ENT ST	JDIES	S			typisäätää täätä impirtopropaava <u>arkernasyy a</u> ga
Participan			rMBA	Marie Sand Grand of		No. of St	tudents Registe	ered:	61
Venue:	MBA – S	emina	r Hall & Comp	uter Lab	and the same of th		picture ; masses,		1
AsoShooveExoMa	certain pro ow financer the firm change of intaining	ofit or cial co n's pr f mone more	ey or money's than one comp nsactions are li	cified per business of worth as pany's acc nked to le	on a pa goods a ount in	rticular d and servi the sam account	late and to have	ve the	control
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anendan	ore $= (0.5)$	ble to	ring more than receive the certif adance in VAC of	ficate for t	he VA	C course o	conducted		
VAC	Coordina	tor		B.T HoD/M	BA	angal di antono populari di antono di Angal di Antono di Angal di Antono di Angal di Antono di Angal d	of the state of th	PΉ	ncipal

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