



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
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





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

Table of Content

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
2022-2023	ODD	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
		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
		MBA	1	Excel For Business Analytics	65	29 - 31
2022-2023	EVEN	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
		ECE	1	Fiber Optic System Design and Simulation	47	43 - 45
		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	23	55 - 57
Total Certificate Courses offered in the Academic year 2022-2023			16	Total No. of Students Enrolled in the Certificate Program	1083	

Table of Content

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
2021-2022	ODD	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
		ECE	1	Lab view	53	68 - 70
		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
		MBA	1	Preparation of Payroll for an Organisation	26	80- 82
2021-2022	EVEN	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
		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 Certificate Courses offered in the Academic year 2021-2022			16	Total No. of Students Enrolled in the Certificate Program	1073	

Table of Content

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
2020-2021	ODD	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
		ECE	1	Arduino Programming	53	117 - 119
		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
2020-2021	EVEN	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
		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 Certificate Courses offered in the Academic year 2020-2021			16	Total No. of Students Enrolled in the Certificate Program	963	

Table of Content

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
2019-2020	ODD	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
		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
2019-2020	EVEN	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
		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 Certificate Courses offered in the Academic year 2019-2020			16	Total No. of Students Enrolled in the Certificate Program	1038	

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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
2018-2019	ODD	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
		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
2018-2019	EVEN	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
		ECE	1	RASPBERRY PI	72	240 - 242
		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 Certificate Courses offered in the Academic year 2018-2019			16	Total No. of Students Enrolled in the Certificate Program	1438	



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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


HOD/AGRI


Principal

Cc:

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


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

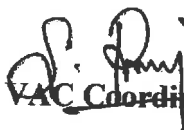
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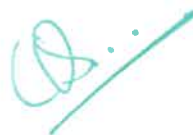


Value Added Course on "VERTICAL FARMING"

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)	-





VAC Coordinator



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


HoD/AGRI



REPORT ON VALUE ADDED COURSE					
Title:	VERTICAL FARMING				
Resource Person:	Mr.R.Sankar,N.Ramachandran, Sri Enterprise Agro Industries Corporation ,Trichy				
Date of conduct from :	01.08.2022	To:	05.08.2022	Duration:	30 Hours
Organized Department :	Agricultural Engineering				
Participant Year:	2, 3	No. of Students Registered :	1724		
Venue:	Agri Seminar Hall				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ul style="list-style-type: none">• Know real-world importance of software in Agricultural engineering students• Know how to perform in Agriin industries.• Study about vertical farmingof Agricultural.• Students are expected to learn and practice the skills they will need in the workplace.• Develop a foundational understanding Agricultural engineering.					
Assessment Process					
<ul style="list-style-type: none">• 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)					
<div style="display: flex; justify-content: space-around;"><div style="text-align: center;"> VAC Coordinator</div><div style="text-align: center;"> HoD/AGRI</div><div style="text-align: center;"> PRINCIPAL</div></div>					

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
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Manikandam, Trichy-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	<ol style="list-style-type: none">1. Mr.C.Vivek Project Manager, Axis V Creatives Pvt ,Ltd,Chennai2. Mr.B.Rahavan Team leader Axis V Creatives Pvt ,Ltd,Chennai
Venue1	SD LAB
Venue2	NETWORK LAB


HOD/CSE


PRINCIPAL

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

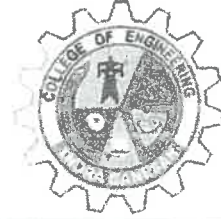

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

Value Added Course on

“Angular JS”

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
1	Introduction Overview <ul style="list-style-type: none">➤ Introduction to AngularJS➤ MVC Architecture➤ Conceptual Overview➤ Setting up the Environment➤ First Application Understanding attributes	3	19.12.2022
2	Expressions and Data Binding <ul style="list-style-type: none">➤ Number and String Expressions➤ Object Binding and Expressions➤ Working with Arrays➤ Forgiving Behavior➤ Understanding Data binding	3	19.12.2022
3	Working with Directives <ul style="list-style-type: none">➤ Conditional Directives➤ Styles Directives➤ Mouse and Keyboard Events Directives	3	20.12.2022
4	Controllers <ul style="list-style-type: none">➤ Understanding Controllers Programming Controllers➤ & \$scope object Adding Behavior to a Scope Object➤ Passing Parameters to the Methods Having Array as members in Controller Scope➤ Nested Controllers and Scope Inheritance➤ Multiple Controllers and their scopes	3	20.12.2022
5	Filters <ul style="list-style-type: none">➤ Built-In Filters Uppercase and Lowercase Filters	3	21.12.2022



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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

	<ul style="list-style-type: none">➤ Currency and Number Formatting Filters➤ OrderBy Filter		
6	Forms <ul style="list-style-type: none">➤ Using Simple Form Working with Select and Options➤ Input Validations Using CSS classes➤ Form Events➤ Custom Model update triggers➤ Custom Validations	3	21.12.2022
7	Modules <ul style="list-style-type: none">➤ Why Module? Module Loading and Dependencies➤ Recommended Setup of Application➤ Creation vs Retrieval	3	22.12.2022
8	Services <ul style="list-style-type: none">➤ Understanding Services Developing Creating Services➤ Using a Service Injecting Dependencies in a Service	5	23.12.2022
9	Ajax in AngularJS <ul style="list-style-type: none">➤ \$http Service \$q Service➤ Ajax Impl using \$http and \$q Service	3	23.12.2022
10	Routing <ul style="list-style-type: none">➤ Introduction to SPA Creating HTML Templates➤ Configuring Route Provider	5	24.12.2022
11	Exam	1	24.12.2022
Total Hours		36	-


VAC Coordinator




HoD/CSE

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

Report on Value Added Course

Title:	Angular JS				
Resource Person:	Mr.C.Vivek Project Manager, Axis V Creatives Pvt Ltd,Chennai	Mr.B.Rahavan Team leader Axis V Creatives Pvt Ltd,Chennai			
Date of conduct from :	19.12.2022	To:	24.12.2022	Duration:	36 Hours
Organized Department :	COMPUTER SCIENCE AND ENGINEERING				
Participant Year:	B.E-II,III & IV- Year /CSE I,II ME,B.Tech-II AI&DS	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					
<ul style="list-style-type: none">• 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					
<ul style="list-style-type: none">• 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$					
 VAC Coordinator		 HoD/CSE		 Principal	

Dr. G. Balakrishnan, M.E., Ph.D.,
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IG Valley, Madurai Main Road
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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	1. Mr.M.Elangovan, Trainer, Startus Electric , Trichy.
Venue	EEE III yr Classroom, IGCE

G. Ma lath

HOD/EEE

[Signature]
Principal

Cc:

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

[Signature]
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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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
Total Hours (Excluding Exam)		30	-


VAC Coordinator


HoD/EEE


Dr. G. Balakrishnan, M.E., Ph.D.,
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REPORT ON VALUE ADDED COURSE					
Title:	"Power Grid Protection"				
Resource Persons:	Mr.M.Elangovan, Trainer. Startus Electric , Trichy.				
Date of conduct from :	30.01.2023	To:	03.02.2023	Duration:	30 Hours
Organized Department :	Electrical and Electronics Engineering				
Participant Year:	2,3,4	No. of Students Registered :	32		
Venue:	EEE III yr Classroom				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ul style="list-style-type: none">● Learn the basic concepts of power system protection and relays.● Design the relevant protection systems for the main elements of a power system.● Learn the theory of arcing phenomenon.● Analyze the purpose and working principle of different circuit breakers and tests.					
Assessment Process					
<ul style="list-style-type: none">● 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	 Principal			

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

Principal

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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


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.,
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Value Added Course

"INTRODUCTION TO ROBOTICS"

SYLLABUS

S.NO	TOPIC 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
5	Micro machines in robotics , machine vision – ranging laser – acoustic – magnetic, fiber optic and tactile sensors.	3	01.02.2023
6	Manipulators and grippers differential motion	3	01.02.2023
7	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
9	various types of grippers , Design considerations	3	01.02.2023
10	Forward Kinematics Forward solution - Denavit Hartenberg procedure.	3	01.02.2023
11	Exam	1	01.02.2023
Total Hours (Excluding Exam)		30	-

G. Keerthi
VAC Coordinator

M. Balakrishnan
HOD/ECE

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

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



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
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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 :

47

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$

G. Keerthi
VAC Coordinator

M. Balakrishnan
HoD/ECE

V. S. Srinivasan
Principal

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

- Principal

Indra Ganesan College of Engineering

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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


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


HOD/MECH


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.,
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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

HOD MECH

Report on Value Added Course

Title:	Mechanical Electrical and Plumbing Methods				
Resource Person:	Mr.Abhu Co-ordinator UNIQ-MEP Trichy		Mr.David Ubahasamy Executive, UNIQ-MEP, Trichy		
Date of conduct from :	05.12.2022	To:	09.12.2022	Duration:	30 Hours
Organized Department :	MECHANICAL ENGINEERING				
Participant Year:	2,3, 4		No. of Students Registered :	45	
Venue:	Mechanical Seminar Hall				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ul style="list-style-type: none">• 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 perform• Develop a foundational understanding of safety systems.					
Assessment Process					
<ul style="list-style-type: none">• 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)					
<p>Dr. G. Balakrishnan, M.E., Ph.D., Principal</p> <p>Indra Ganesan College of Engineering IG Vailey, Madurai Main Road Manikandam, Trichy-620 012.</p>					
 VAC Coordinator		 HOD MECH		 Principal	



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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.

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

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COLLEGE OF ENGINEERING

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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 LM	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	-

VAC Coordinator

HOD/IT

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

Principal

Indra Ganesan College of Engineering

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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.

REPORT ON VALUE ADDED COURSE

Title: "Speech Recognition Technology in Natural Network"

Resource Person: Mr. A. Sooriyaoli,
Managing Director
Novi Tech R&D
Pvt.Ltd

Mr.R.Rajesh,
Project Manager,
Novi Tech R&D
Pvt.Ltd

Date of conduct from : 19.12.2022

To: 23.12.2022

Duration: 30 Hours

Organized Department : Information Technology

Participant Year: 2,3,4

No. of Students Registered : 90

Venue: IT Seminar Hall

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% 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/IT


Principal



Indra Ganesan

COLLEGE OF ENGINEERING

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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.

Resource Person Detail	<ol style="list-style-type: none">1. Mr.K.Vivek Managing Director, Azatech Pvt Ltd, Chennai2. Mr.N.Sundar Team Leader, Azatech Pvt Ltd, Chennai
Venue	Auditorium, IGCE


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
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Manikandam, Trichy-620 012.



Indra Ganesan

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Value Added Course

“Course on Matlab”

SYLLABUS

S.NO	TOPIC 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	-

T. Kalainani
VAC Coordinator

G. Babala
HoD/S&H


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

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IG Valley, Madurai Main Road
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Report on Value Added Course			
Title:	"Value added course on Matlab"		
Resource Person:	Mr.K.Vivek Managing Director, Azatech Pvt Ltd, Chennai	Mr.Sundar Team Leader, Azatech Pvt Ltd, Chennai	
Date of conduct from :	12.12.2022	To: 16.12.2022	Duration: 30 Hours
Organized Department:	SCIENCE AND HUMANITIES		
Participant Year:	1	No. of Students Registered :	158
Venue:	AUDITORIUM		
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to			
1. Understand the basics of Matlab 2. Break a complex task up into smaller, simpler tasks 3. Case Study (Any two Modules) 4. Tabulate results and Analyse			
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)			
T.Kalarivan VAC Coordinator	S.Boobalan HoD/S&H	Princip Principal	

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

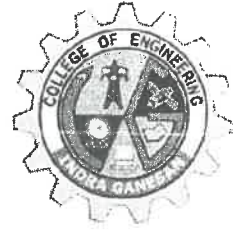
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Department of Management Studies

Academic Year 2022-2023 - Odd Semester

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 "Excel For Business Analytics" from 14.11.2022 to 18.11.2022. 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 Ms. Minipriya N For this program on or before 10th November 2022.

Resource Person:	Mr. Kiran Gowda Product Specialist - Human Resource Management. Synergy School of Business Skills Trichy.
Venue:	MBA Seminar Hall


HOD/MBA
Cc:

- Principal Table
- IQAC Co-Ordinator
- HoD/MBA
- Class Incharges - I, II-Year
- I, II-Year MBA Students
- Office File
- Notice Board


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

Indra Ganesan College of Engineering
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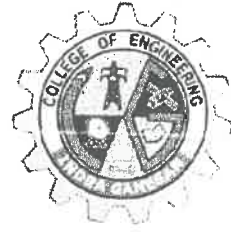




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COLLEGE OF ENGINEERING

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Value Added Course on "Excel For Business Analytics" SYL

LABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Manage Workbook Options and Settings	1	14/11/2022
2	Apply Custom Data Formats and Layouts	1	14/11/2022
3	Create Tables	1	15/11/2022
4	Perform Operations with Formulas and Functions	3	15/11/2022
5	Create Charts and Objects	3	16/11/2022
6	Manage Workbook Options and Settings	1	16/11/2022
7	Apply Custom Data Formats and Layouts	2	16/11/2022
8	Create Advanced Formulas	3	17/11/2022
9	Create Advanced Formulas-Practical	3	17/11/2022
10	Create Advanced Charts and Tables	3	18/11/2022
11	Create Advanced Charts and Tables-Practical	3	18/11/2022
12	Exam	1	18/11/2023
Total Hours		30	-


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

Principal

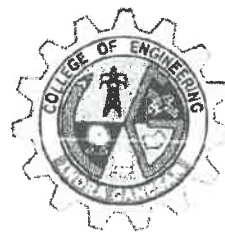
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IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



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Report on Value Added Course

Title:	ExcelForBusinessAnalytics				
ResourcePerson:	Mr.KiranGowda ProductSpecialist-HumanResourceManagement. Synergy School of Business Skills Trichy.				
Dateofconductfrom :	14.11.2022	To:	18.11.2022	Duration:	30 Hours
OrganizedDepartment:	MANAGEMENTSTUDIES				
Participant Year:	1&2YearMBA	No.ofStudentsRegistered:	103		
Venue:	MBASeminarHall				

OutcomeofValueAddedCourse(VAC):AttheendoftheCourse,Studentscanable to

- AnnotateExcelBasics.
- WorkwithCellsandWorksheets
- CalculateYourDataandFormatyourWorkbook
- AddChartsandGraphics.
- WorkwithMacrosandFunctions.

AssessmentProcess

- Students,whoaresecuringmorethan70%ontotalscoreandsecuredmorethan75%inattendance is eligible to receive the certificate for the VAC course conducted
- TotalScore=(0.5*AttendanceinVACoutof100percentage+0.5*Test markinVACoutof 100 marks)


VACCoordinator


HoD/MBA


Principal


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

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Manikandam, Trichy-620 012.



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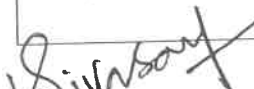
Department of AGRICULTURAL ENGINEERING
Academic Year 2022-2023 – Even Semester


26.07.23

DEPARTMENT CIRCULAR

Department of Agricultural Engineering and IQAC of IGCE in association with “SRI ENTERPRISE AGRO INDUSTRIES CORPORATION” 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	<ol style="list-style-type: none">Mr. K. Ramesh Kumar, Director, Sri Enterprise Agro Industries Corporation, GunturMr.A.Jayaraj, Technical Assistant, Sri Enterprise Agro Industries Corporation, Guntur
Venue	CAD LAB, 2 nd Floor, IGCE


HOD/CIVIL


Principal

Cc:

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

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

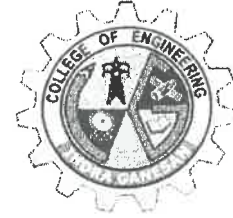
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Manikandam, Trichy-620 012.



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Value Added Course on "HYDROPONICS"

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	-

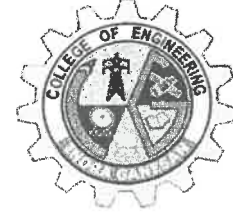

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

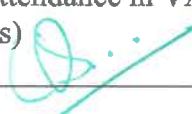

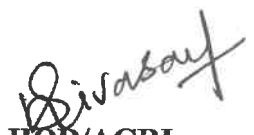
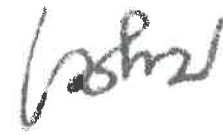


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REPORT ON VALUE ADDED COURSE					
Title:	"Hydroponics"				
Resource Person:	Mr.K. Ramesh Kumar, Director, Sri Enterprise Agro Industries Corporation, Guntur			Mr.A. Jayaraj, Technical Assistant, Sri Enterprise Agro Industries Corporation, Guntur	
Date of conduct from :	01.08.2023	To:	05.08.2023	Duration:	30 Hours
Organized Department :	AGRICULTURAL ENGINEERING				
Participant Year:	2, 3	Semester:	EVEN	No. of Students Registered:	24
Venue:	CAD LAB, 2 nd Floor, IGCE				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ul style="list-style-type: none">To make familiar with calculation of quantities for different items of works & provide knowledge about estimation of buildings through estimator-2.0 softwareOn completion of this course the students will be able to know the process of making animation of building, sketch up the building plan and building model.Understand and apply various methods of quantity estimation measurement in construction projects.Estimating, bricks calculations and cost for different materials.					
Assessment Process					
<ul style="list-style-type: none">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 conductedTotal 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-620 012.					
 VAC Coordinator		 HOD/AGRI		 Principal	



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


PRINCIPAL

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


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 Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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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
1	Introduction to Rub <ul style="list-style-type: none">➤ Overview➤ Installation and Setup➤ Ruby Syntax, Variables, Data Types, and Operators➤ Control Structures and Loops➤ Functions and Methods	3	12.06.2023
2	Object-Oriented Programming (OOP) with Ruby <ul style="list-style-type: none">➤ Classes and Objects➤ Inheritance and Polymorphism➤ Encapsulation and Abstraction➤ Modules and Mixins	3	12.06.2023
3	Web Development with Ruby on Rails <ul style="list-style-type: none">➤ 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) <ul style="list-style-type: none">➤ Rvm installation➤ Rvm commands➤ Rvm Usage	3	13.06.2023
5	Working in Linux(Ubuntu) Platform <ul style="list-style-type: none">➤ 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



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Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

	<ul style="list-style-type: none">➤ Working with Ruby operators and expressions➤ Numeric Methods➤ Rand and Ranges➤ Strings, Escaping, Interpolation➤ String methods➤ Dates and Times		Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.
7	Ruby Datatypes & Variables <ul style="list-style-type: none">➤ 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 <ul style="list-style-type: none">➤ 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 <ul style="list-style-type: none">➤ OOP➤ Class➤ The initialize method➤ The accessor & setter method➤ Access Control➤ Class Inheritance➤ Method Overriding➤ Operator Overloading➤ Singleton methods➤ Metaclass	3	16.06.2023
10	Rails Installation and Ruby gems <ul style="list-style-type: none">➤ What is Rails	5	17.06.2023



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Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

	<ul style="list-style-type: none">➤ Full tack Framework➤ Rails Strength➤ COC(convention over configuration)➤ Rails Intallation➤ Ruby and Rails installation on linux➤ Ruby Gems➤ Working with RubyGems➤ Gem commands➤ Framework Technology➤ MVC➤ Rails Components➤ How does Rails works in MVC		
11	Exam	1	17.06.2023
Total Hours		36	-


VAC Coordinator


HoD/CSE



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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Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

Report on Value Added Course

Title: **Ruby on Rails**

Resource Person:

Mr.V. Tamilventhan
Director, Lift Technologies
Trichy

Mr.G.Ganesh
Project leader
Lift Technologies
Trichy

Date of conduct from : **12.06.2023** To: **17.06.2023** Duration: **36 Hours**

Organized Department : **COMPUTER SCIENCE AND ENGINEERING**

Participant Year: **B.E-II,III & IV- Year /CSE**
I,II ME,B.Tech-II AI&DS 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

- Gain knowledge e the main features of Rub
- 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


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



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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.Sathiyam, Trainer, NoviTech R&D Pvt Ltd Coimbatore, Tamilnadu.
Venue	EEE III yr Classroom, IGCE

G. Malathi

HOD/EEE

[Signature]
Principal

Cc:

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

[Signature]
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

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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
Total Hours(Excluding Exam)		30	-


VAC Coordinator




HoD/EEE

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:

“ Electrical safety & maintenance ”

Resource Person:

Mr.S.Sathiyam, Trainer,
NoviTech R&D Pvt Ltd,
Coimbatore,
Tamilnadu.

Date of conduct from :

01.08.2023

To:

05.08.2023

Duration:

30 Hours

Organized Department :

Electrical and Electronics Engineering

Participant Year:

2,3,4

No. of Students Registered :

32

Venue:

EEE III yr Classroom

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

- Learn electricity in the workplace.
- Learn the associated hazards and risks.
- Analyze the Standards and regulations.
- Find Qualified and unqualified worker.
- Find Effects of electricity on human body.
- Appreciate the need to isolate equipment and the techniques of safe isolation


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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$

S. Vijay
VAC Coordinator

Ge. Ma lathi
HoD/EEE

K. Srinivas
Principal


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



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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

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Manikandam, Trichy-620 012.



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COLLEGE OF ENGINEERING

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Value Added Course

"FIBER OPTIC SYSTEM DESIGN & SIMULATION"

SYLLABUS

S.NO	TOPIC 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 Optisim 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	Losses in fiber – attenuation, 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
8	Responsivity, Quantum Efficiency, Sensitivity, photo current and transfer characteristics of photo diodes	3	03.08.2023
9	PIN diode and Avalanche diode - basic optical receiver configuration	3	04.08.2023
10	Preamplifiers - BER – WDM concepts.Outline of Li-Fi and Communication through LED	3	04.08.2023
11	Exam	1	05.08.2023
Total Hours (Excluding Exam)		30	-

A. Keerthi

VAC Coordinator

[Signature]

M. D. S.
HOD/ECE

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

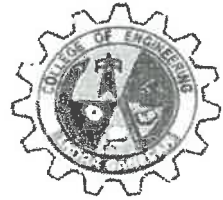
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REPORT ON VALUE ADDED COURSE

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 : 47

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 Optisim 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)

G. Keethi
VAC Coordinator

M. Blumar
HoD/ECE

Principal
Principal

(Signature)
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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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 UNIQ-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.


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


HOD/MECH


PRINCIPAL

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
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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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Principal
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VAC Coordinator


HOD/MECH



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COLLEGE OF ENGINEERING

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Report on Value Added Course

Title:	Heat ventilation Air conditioning Technology				
Resource Person:	Mr. Deepak Executive UNIQ-MEP Trichy.		Mr. Dhineshwaran G Executive UNIQ-MEP Trichy.		
Date of conduct from :	22.05.2023	To:	27.05.2023	Duration:	30 Hours
Organized Department :	MECHANICAL ENGINEERING				
Participant Year:	2,3, 4		No. of Students Registered :	48	
Venue:	Mechanical Seminar Hall Third Floor Mechanical Department IGCE				

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



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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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.

Resource Person Detail	1.Mr. Azmann Managing Director, 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
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



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-linear 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	3	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




HOD/IT

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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REPORT ON VALUE ADDED COURSE

Title: "Application of Image Processing in Information Technology"

Resource Person: **Mr. Azmann**
Managing Director,
UniqTechnologies

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 : 90

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
- 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% 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/IT


Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
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Indra Ganesan College of Engineering
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Department of Science and Humanities

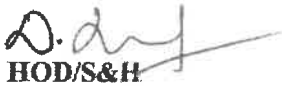
Academic Year 2022-2023 –Even Semester

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.

Resource Person Detail	<ol style="list-style-type: none">1. Mr. M. Senthilkumar Managing Director, Mecello, Tech, Chennai2. Mr. S. Aravindh Team Leader, Mecello, Tech, Chennai
Venue	Auditorium, IGCE


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
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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
9	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
Total Hours (Excluding exam)		30	-

T. Kalivani

VAC Coordinator

D. Desai
HoD/S&H

(Signature)
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:	"Value added course on LATEX"				
Resource Person:	Mr. M. Senthil kumar Managing director, MecelloTech, Chennai		Mr.S.Aravindh Team Leader Mecello Tech, Chennai		
Date of conduct from :	15.05.2023	To:	19.05.2023	Duration	30 Hours
Organized Department	SCIENCE AND HUMANITIES				
Participant Year:	1	No. of Students Registered :	158		
Venue:	AUDITORIUM				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ol style="list-style-type: none">1. Typesetting of complex mathematical formulae using LaTeX.2. Use tabular and array environments within LaTeX.3. Use various methods to either create or import graphics into a LaTeX document.4. Typesetting of journal articles, technical reports, and slide presentations.5. Automatic generation of a table of contents, bibliographies, and indexes.					
Assessment Process					
<ul style="list-style-type: none">• 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)					
T. Kalavani VAC Coordinator		D. S. S. S. HoD/S&H		K. S. S. S. Principal	

Dr. G. Balakrishnan, Principal

Principal

Indra Ganesan College of Engineering

JG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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Department of Management Studies

Academic Year 2022-2023 – Even Semester

22.03.2023

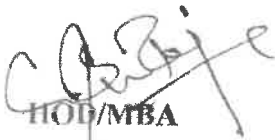
Ref: IGCE/MBA/2022-23/VAC/02

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


HOD/MBA
Cc:

- Principal Office
- IQAC Co-Ordinator
- HoD/ MBA
- I -Year MBA Students
- 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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**Value Added Course on "Structural Equation Model (SEM) and CFA - Average
Variance Extracted (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
Total Hours		30	


HOD/MBA



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

Principal

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


PRINCIPAL



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Report on Value Added Course

Title:

"Structural Equation Model (SEM) and CFA - Average Variance Extracted (AVE) Using AMOS

Resource Person:

Mr. Mohamed Shuaib Siddiqui
Head Strategy & Customer Outreach,
Bizme Aalytix,
Trichy

Date of conduct from :

03.04.2023

To:

07.04.2023

Duration:

30 Hours

Organized Department :

MANAGEMENT STUDIES

Participant Year:

1 Year MBA

No. of Students Registered :

23

Venue:

MBA Seminar Hall

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

- Relate Multiple variables at any point in time.
- Explain Benefits of the Tool AMOS
- Identify if observed variables contribute to latent or unobserved variables.

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD MBA


Principal


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

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

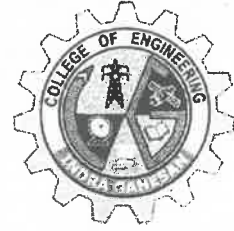
Manikandam, Trichy-620 012.



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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 10.08.2021 to 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.


Resource person Details:	1.Mr.M.Bhuvana Selvam 2.Mr.B.Ramesh Trainers Kalam Constructions Trichy
Venue	Civil Seminar Hall


HoD/CIVIL


Principal

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



Indra Ganesan

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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. Gayathri
VAC Coordinator

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

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

Sivasankar
HoD/CIVIL



Indra Ganesan

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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					
<ul style="list-style-type: none">• 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					
<ul style="list-style-type: none">• 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)					
<p>K. Gayathri VAC coordinator</p> <p>Sivaram HoD/CIVIL</p> <p> Principal</p>					

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

Principal

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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	<ol style="list-style-type: none">1. Mr. A.R.Sooriyaoli, Managing Director, Blue Fire Xperts Infotech OPC Pvt Ltd, Trichy,2. Mr. V.Roshan Trainer Blue Fire Xperts Infotech OPC Pvt Ltd, Trichy
Venue 1	SD LAB
Venue 2	NETWORK LAB


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

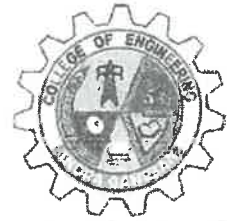

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
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Department of Computer Science & Engineering

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 <ul style="list-style-type: none">➤ Hacking concept, what is hacking?➤ Terms we use in hacking.➤ Need of Ethical hacking.➤ Cases of Hacking in India & across the globe	3	13.12.2021
2	Principles of Ethical hacking <ul style="list-style-type: none">➤ Basic Principle➤ Commandments of Ethical Hacking	3	13.12.2021
3	Hacking Methodologies <ul style="list-style-type: none">➤ Types of Hacking.➤ Building the foundation for Ethical hacking➤ Hacking Phases	3	14.12.2021
4	Role of Ethical Hacker <ul style="list-style-type: none">➤ Types of Hackers➤ Roles and Responsibility	3	14.12.2021
5	Scope & limitations of hacking <ul style="list-style-type: none">➤ Advantages & scope for hacking➤ Drawbacks & Limitation of hacking	3	15.12.2021
6	Cyber Threats and Attacks Vectors <ul style="list-style-type: none">➤ Threats & categories➤ Attack Vectors and Exploitation	3	15.12.2021
7	Hacking tools and techniques <ul style="list-style-type: none">➤ Common Hacking Tools➤ Hacking Techniques & Approaches	3	16.12.2021
8	Policies and Controls Information Security policies <ul style="list-style-type: none">➤ Risk Management & Incident Management➤ Information Security controls➤ Data Management	5	16.12.2021
9	Overview of PT / VA.	3	17.12.2021

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Department of Computer Science & Engineering

Academic Year 2021-2022 – Odd Semester

	<ul style="list-style-type: none">➤ Concept of Penetration testing Types of Penetration testing➤ Phases of Penetration testing➤ Vulnerability Assessment by Penetration testing➤ Access Control		
10	Footprinting through Search Engines, Web Services <ul style="list-style-type: none">➤ 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	-


VAC Coordinator


HoD/CSE



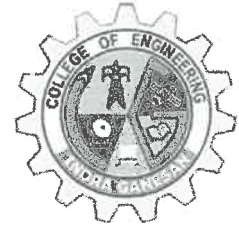
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



Indra Ganesan

COLLEGE OF ENGINEERING


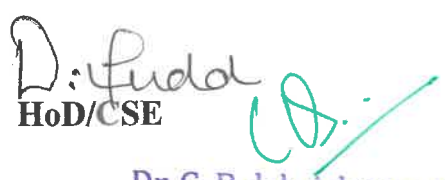

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Department of Computer Science & Engineering

Academic Year 2021-2022 – Odd Semester

Report on Value Added Course

Title:	Ethical Hacking				
Resource Person:	Mr. A.R.Sooriyaoli, Managing Director, Blue Fire Xperts Infotech OPC Pvt Ltd, Trichv,		Mr. V.Roshan Trainer Blue Fire Xperts Infotech OPC Pvt Ltd, Trichv		
Date of conduct from :	13.12.2021	To:	18.12.2021	Duration:	36 Hours
Organized Department :	COMPUTER SCIENCE AND ENGINEERING				
Participant Year:	B.E-II,III & IV- Year /CSE I,II ME		No. of Students Registered :	96	
Venue:	SD LAB,NETWORKLAB				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ul style="list-style-type: none">Gain knowledge about Ethical hacking and penetration testing.Know the Ruby's built-in methods for manipulating strings, files, and hashesDevelop object-oriented Ruby programs using classes and objectsManipulate strings using regular expressionsCreate useful stand-alone applications in RubyDevelop distributed web application using RMI, Servlets and JSP.Install Ruby gems (third-party libraries) using the gem utility					
Assessment Process					
<ul style="list-style-type: none">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 conductedTotal 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.



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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.

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

G. Ma lathu

HOD/EEE

[Signature]
PRINCIPAL

Cc:

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

[Signature]
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

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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	-


VAC Coordinator


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


HOD/EEE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, 1(F) Status Institution by UGC



REPORT ON VALUE ADDED COURSE

Title: "ELECTROCHEMICAL ENERGY STORAGE"

Resource
Persons: Mr.R.Durai Raj,
Trainer,
Startus Electric,
Trichy

Date of conduct from : 07.03.2022 To: 11.03.2022 Duration: 30 Hours

Organized
Department : Electrical and Electronics Engineering

Participant Year: 2,3,4 No. of Students
Registered : 38

Venue: III Year Class Room

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

- Learn the thermodynamics in electrolyte solutions.
- Learn the concept of the electrochemical cell.
- Learn the most common electrochemical reactions measurement techniques.
- estimate the energy and conversion efficiencies of the energy conversion system
- Understand the need and potential of electrochemical energy storage.

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

G. Ma Lathu
HOD/EEE

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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COLLEGE OF ENGINEERING

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

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


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
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IG Valley, Madurai Main Road
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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	-

Balakan
VAC Coordinator

M. Prasad
HOD/ECE


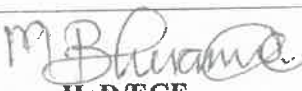

G. Balakrishnan
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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REPORT ON VALUE ADDED COURSE					
Title:	"Lab View"				
Resource Person:	Mr. Deepan, Trainer, Galwin Technology, Trichy		-----		
Date of conduct from :	01.03.2022	To:	05.03.2022	Duration:	30 Hours
Organized Department :	Electronics and Communication Engineering				
Participant Year:	2,3,4		No. of Students Registered :	53	
Venue:	DSP Lab				
Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to					
<ul style="list-style-type: none">● create applications using the state machine design pattern● to acquire, analyze, process, visualize, and store real-world data Recognize various tools used for the controller applications● ability to quickly facilitate taking measurements.● use of Lab view software is predominant in the areas where hardware products are built based on embedded programming					
Assessment Process					
<ul style="list-style-type: none">● 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		 Principal	



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



Indra Ganesan

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

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.

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


HoD/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. Balakrishnan, M.E., Ph.D.
Principal
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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	Weldability 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.D.
Principal
Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.



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Report on Value Added Course					
Title:	Solid state Joining Technologies				
Resource Person:	1.Mr.Faizal Ahamed & 2.Mr.Sundaramoorthi, Officer, UNIQ-MEP Trichy.				
Date of conduct from :	13.12.2021	To:	18.12.2021	Duration:	30 Hours
Organized Department :	MECHANICAL ENGINEERING				
Participant Year:	3, 4	No. of Students Registered :	43		
Venue:	GOOGLE MEET 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					
<ul style="list-style-type: none">• 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					
<ul style="list-style-type: none">• 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$					
<div style="display: flex; justify-content: space-between;"><div style="text-align: center;"> VAC Coordinator</div><div style="text-align: center;"> HOD/MECH</div><div style="text-align: center;"> Principal</div></div>					

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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.

Resource Person Detail	1.Mr.S.Karthikeyan, Project Manager, Fantasy Solution,Trichy. 2.Mr.R.Ragul Kannan Project Manager Extazyy Thillai Nagar Trichy .
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
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Indra Ganesan
COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

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
10	Nanoelectronics	2	17.12.2021
11	Exam	1	17.12.2021
Total Hours (Excluding Exam)		30	-


VAC Coordinator




HOD/IT

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

REPORT ON VALUE ADDED COURSE

Title: **“Manipulation of Nano Technology in Materials”**

Resource Person: **Mr.S.Karthikeyan,**
Project Manager,
Fantasy Solution,
Trichy

Mr.R.Ragul Kannan
Project Manager
Extazzy Thillai
Nagar Trichy

Date of conduct from : **13.12.2021** To: **17.12.2021** **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

- 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% 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/IT


Principal



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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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.

Resource Person Detail	<ol style="list-style-type: none">1. Mr. G. Vijayan, Operation manager, Surya solar, Hosur2. Mr.C.Rajeshkhanna Team leader , Surya solar, Hosur
Venue	Google meet https://meet.google.com/sgi-hior-ygr

G. Balakrishnan
HOD/S&H

[Signature]
PRINCIPAL

Cc:

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

[Signature]
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 Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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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
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IG Valley, Madurai Main Road
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HoD/S&H



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Report on Value Added Course					
Title:	" Basic of electrical, plumbing & two wheeler mechanism"				
Resource Person:	Mr. G. Vijayan, Operation manager, Surya solar, Hosur	Mr.C.Rajeshkhanna Team leader , Surya solar, Hosur			
Date of conduct from :	13.12.2021	To:	17.12.2021	Duration:	30 Hours
Organized Department:	SCIENCE AND HUMANITIES				
Participant Year:	1	No. of Students Registered :	152		
Venue:	Google meet https://meet.google.com/sgi-hior-ygr				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ol style="list-style-type: none">1.To observe the electric safety aspect2. Basic knowledge about electric.3. Demonstrate logical reasoning in plumbing through evaluating best material selection and determining adequate joining processes.4. Demonstrate professionalism by developing goals for personal and professional growth and modeling industry norms to develop a commitment of lifelong career.5. Learn shop safety.6. Understand shop equipment.					
Assessment Process					
<ul style="list-style-type: none">• 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		S. Boobalan HoD/S&H		Principal	

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

Principal

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

COLLEGE OF ENGINEERING

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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-ordinator Mrs. Nisha Martina L for this program on or before 13th October 2021.

Resource Person:	Mr. Sudharsan / MD Trytax Professionals 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.

PRINCIPAL

Cc:

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



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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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	18/10/2021
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	


HOD/MBA


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

Principal

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PRINCIPAL



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Report on Value Added Course

Title: **Preparation of Payroll for an Organisation**

Resource Person: Mr.Sudharsan / MD
Trytax Professionals
Trichy

Date of conduct from : **18.10.2021** To: **22.10.2021** Duration: **30 Hours**

Organized Department : **MANAGEMENT STUDIES**

Participant Year: **II yearMBA** No. of Students Registered : **26**

Venue: **MBA – Seminar Hall & Computer 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$

VAC Coordinator

HoD/MBA

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

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Indra Ganesan

COLLEGE OF ENGINEERING

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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

Sivasamy
HoD/CIVIL

[Signature]
Principal

Cc:

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

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

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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)	-


VAC Coordinator


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HoD/CIVIL



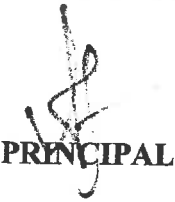


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COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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REPORT ON VALUE ADDED COURSE					
Title:	STAAD.PRO				
Resource Person:	Ms.R.SHEELA, Ms.SWETHA, 5D ARCHITECTS & CONSTRUCTIONS, TRICHY				
Date of conduct from :	07.03.2021	To:	11.03.2021	Duration:	30 Hours
Organized Department :	Civil Engineering				
Participant Year:	2, 3, 4		No. of Students Registered :	17	
Venue:	Online Google meet				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ul style="list-style-type: none">• Know real-world importance of software in Civil Engineering• Know how to perform in civil software in industries.• Study about Staad pro 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					
<ul style="list-style-type: none">• 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		 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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COLLEGE OF ENGINEERING

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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 IQAC 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 2. Mr. T.Samy Trainer Azatech Trichy
Venue 1	SD LAB
Venue 2	NETWORK LAB


HOD/CSE


PRINCIPAL

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. 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

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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
1	Introduction Overview <ul style="list-style-type: none">➤ HTTP protocol MVC model➤ Virtual environment➤ Django structure➤ Generic Views➤ HTML templates➤ URL dispatcher	3	06-06-2022
2	Advanced Django for Web and Automation <ul style="list-style-type: none">➤ Custom Views➤ GET and POST methods➤ URL shortener➤ Deployment of Django➤ Automating tasks with Django	3	06-06-2022
3	Django REST <ul style="list-style-type: none">➤ JSON Building RESTful APIs➤ Filtering Models➤ Authentication with tokens➤ Postman➤ Related models➤ Contenttypes app	3	07-06-2022
4	Deploying Web APIs <ul style="list-style-type: none">➤ Understanding Using API endpoints➤ Deployment of Django REST project Multiple Controllers and their scopes	3	07-06-2022
5	Final Project and Presentation Built-In Filters Uppercase and Lowercase Filters <ul style="list-style-type: none">➤ Concept presentation➤ Approval by committee➤ Working on the project	3	08-06-2022

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

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Tiruchirappalli - 620 012



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Department of Computer Science & Engineering

Academic Year 2021-2022 – Even Semester

	<ul style="list-style-type: none">➤ Intermediate report to committee➤ Finishing the project		
6	Django architecture <ul style="list-style-type: none">➤ MVC and MTV➤ Starting a project➤ Django apps➤ Template inheritance➤ Sending data from url to view	3	08-06-2022
7	Creating A Website - Project <ul style="list-style-type: none">➤ Creating an app inside the project➤ Activating the app➤ Filtering objects➤ Deleting objects	3	09-06-2022
8	Creating Administration Panel <ul style="list-style-type: none">➤ 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
9	Django Forms Creation <ul style="list-style-type: none">➤ Django template tags➤ If/else➤ If/elif/else➤ For➤ Comments➤ Filters➤ Using templates to display data in the site	3	10-06-2022
10	Live Project Implementation <ul style="list-style-type: none">➤ Project life cycle➤ Creating a functional website in Django	5	11-06-2022
11	Exam	1	11-06-2022
Total Hours		36	-


VAC Coordinator




HoD/CSE

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 Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
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Department of Computer Science & Engineering

Academic Year 2021-2022 – Even Semester

Report on Value Added Course

Title:	Django Framework				
Resource Person:	Mr. Aazman, Project Manager, Azatech Trichy	Mr. T.Samy Trainer Azatech Trichy			
Date of conduct from :	06.06.2022	To:	11.06.2022	Duration:	36 Hours
Organized Department :	COMPUTER SCIENCE AND ENGINEERING				
Participant Year:	B.E-II,III & IV- Year /CSE I,II ME	No. of Students Registered :	96		
Venue:	SD LAB,NETWORKLAB				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ul style="list-style-type: none">• How to create routes (or views) with Django.• How to serve static content and files using Django.• How to connect templates with models to serve data dynamically.• 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					
<ul style="list-style-type: none">• 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
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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	1. Dr.M.Aravith, Design Engineer, Sri Sai Software.
Venue	EEE III yr Classroom, IGCE

G. Ma Lathi
HOD/EEE

[Signature]
Principal

Cc:

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

[Signature]
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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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 logic 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
11	Exam	1	05.08.2022
Total Hours(Excluding Exam)		30	-


VAC Coordinator


HOD/EEE


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Report on Value Added Course

Title:	"Automation using PLC and SCADA"				
Resource Person:	Dr.M.Aravith, Design Engineer, Sri Sai Software.				
Date of conduct from :	01.08.2022	To:	05.08.2022	Duration:	30 Hours
Organized Department :	Electrical and Electronics Engineering				
Participant Year:	2,3,4	No. of Students Registered :	38		
Venue:	EEE III yr 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HOD/EEE


Principal


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

Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.



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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

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



Indra Ganesan

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Value Added Course

“Introduction to Machine Learning”

SYLLABUS

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

Balakrishnan
VAC Coordinator

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

M.P. Srinivasan
HOD/ECE



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REPORT ON VALUE ADDED COURSE

Title:	"Introduction to Machine Learning"				
Resource Person:	Ms. Shalom Jerlin , Technical Head, Hitakey Infosys Trichy				
Date of conduct from :	01.08.2022	To:	05.08.2022	Duration:	30 Hours
Organized Department :	Electronics and Communication Engineering				
Participant Year:	2,3,4		No. of Students Registered :	52	
Venue:	Online Link: ECE Seminar hall				

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

- Understand different types of machine learning and map problems to different classes of machine learning algorithms
- Describe and apply machine-learning algorithms including decision trees, naïve Bayes, and logistic regression.
- Understand a wide variety of learning algorithms
- Understand how to evaluate models generated from data.
- Apply the algorithms to a real problem, optimize the models learned and report on the expected accuracy that can be achieved by applying the models.


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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$

Balakrishnan
VAC Coordinator

M. Shalom Jerlin
HoD/ECE

[Signature]
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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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


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


HOD MECH


PRINCIPAL

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.


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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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	PEMFC and AFC batteries.	3	11.06.2022
11	Exam	1	11.06.2022
Total Hours		30	


VAC 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.



Indra Ganesan

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Report on Value Added Course

Title: **Graphene Battery Technologies.**

Resource Person1: Mr. Abhu
Co-ordinator
UNIQU-MEP,
Trichy

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

Resource Person2: Mr. Yasar Arafath
Co-ordinator
UNIQU-MEP,
Trichy

Date of conduct from : 06.06.2022 To: 11.06.2022 Duration: 30 Hours

Organized Department : MECHANICAL ENGINEERING

Participant Year: 2,3, 4 No. of Students Registered : 69

Venue: Google Meet
online mode Google Meet: meet.google.com/ack-bfod-zmp

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 given application
- Explain the working principle, electrochemistry technology and application of prominent fuel cells

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD MECHANICAL


Principal



Indra Ganesan

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

Resource Person Detail	1. Prof. Mr.Tamilventhan Director, Lift TechnologiesTrichy. 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,
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

“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




HOD/IT

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



Indra Ganesan

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REPORT ON VALUE ADDED COURSE

Title: **“Deep Learning in Cyber Security”**

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

**Mr. R. Prem Nath,
Project Manager, Tata
Motors, Chennai**

Date of conduct from : **14.02.2022** To: **18.02.2022** Duration: **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% 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/IT


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 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.


Resource Person Detail	<ol style="list-style-type: none">1. Mr. G. Vijayan, Operation manager, Surya Solar, Hosur,2. Mr. C. Rajesh Khanna Team Leader, Surya Solar, Hosur
Venue	Google meet https://meet.google.com/sgi-hior-ygr


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
Indra Ganesan College of Engineering
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Value Added Course

“Digital marketing”

SYLLABUS

S.NO	TOPIC COVERED	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(Excluding Exam)		30	-


VAC Coordinator


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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HoD/S&H



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Report on Value Added Course					
Title:	" Digital marketing"				
Resource Person:	Mr. G. Vijayan Operation manager Surya Solar, Hosur	Mr. C. Rajesh Khanna Team Leader, Surya Solar, Hosur			
Date of conduct from :	09.05.2022	To:	13.05.2022	Duration:	30 Hours
Organized Department:	SCIENCE AND HUMANITIES				
Participant Year:	1	No. of Students Registered :	152		
Venue:	Google meet https://meet.google.com/sgi-hior-ygr				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
1. Develop and execute a marketing plan, incorporating all elements of the marketing mix, segmentation and positioning strategies and other elements.					
2. Understanding of the role of both digital and traditional media in marketing, and the intersection of online and offline strategies and tactics.					
3. Guide the development of a digital presence from a marketing point of view..					
4. Be proficient in marketing analytics and quantitative evaluation of the marketing environment.					
<ul style="list-style-type: none">• 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		 HoD/S&H		 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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Department of Management Studies

Academic Year 2021-2022 - Even Semester

08.04.2022

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

DEPARTMENT CIRCULAR

Department of Management Studies and IQACIGCE in association with M/s White & 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 before 13th April 2022.

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


HOD/MBA




PRINCIPAL

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
- I-Year MBA Students
- Notice Board



Indra Ganesan

COLLEGE OF ENGINEERING

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

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Value Added Course on "Etiquettes For Managers" SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Ice Breaking Session	3	18/04/2022
2	Greeting and Conversation	3	18/04/2022
3	Work Place Communication-Formal	3	19/04/2022
4	Work Place Communication- Informal	3	19/04/2022
5	Resume Writing	2	20/04/2022
6	Group Discussion	2	20/04/2022
7	Time management and effective planning	2	20/04/2022
8	Mock Interview	5	21/10/2022
9	Presentation Skills	1	21/10/2022
10	Case Study Solving with Presentations	3	22/10/2022
11	Case Study Solving with Presentations	3	22/10/2022
Total Hours		30	


HOD/MBA


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

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PRINCIPAL



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Report on Value Added Course

Title: **Etiquettes For Managers**

Resource Person: **Mr. V. Arunkumar**
MD
M/s White & Black Digital Marketing
Trichy.

Date of conduct from: **18.04.2022** To: **22.04.2022** Duration: **30 Hours**

Organized Department: **MANAGEMENT STUDIES**

Participant Year: **1 Year MBA** No. of Students Registered: **58**

Venue: **MBA Seminar Hall**

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

- Familiarize participants with the mechanics of writing
- Make them write in English precisely and effectively
- Make them speak fluently and flawlessly in all kinds of communicative contexts with all nationalities.

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/MBA


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

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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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, through, <https://meet.google.com/mnd-tdmps-gbp>(Google meet link). Certificates will be issued to the eligible participants at the end of the Course.

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


HOD/CIVIL



Principal

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



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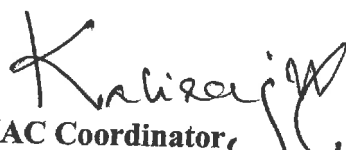
Value Added Course on “Advanced Surveying”

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

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VAC Coordinator


HOD/CIVIL



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REPORT ON VALUE ADDED COURSE

Title:

"Safety in construction"

Resource Person:

Mr.K. KINSELY MAXWEL,
Surveyor,
Veeranar Construction,
Puthukottai

Date of conduct from:

08.02.21

To:

12.02.21

Duration:

30 Hours

Organized Department:

CIVIL ENGINEERING

Participant Year:

2, 3, 4

Semester:

ODD

No. of Students Registered:

25

Venue:

<https://meet.google.com/mnd-tpqm-gb>(Google meet link)

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

- Impact knowledge on the usage of basic surveying instruments
- Able to use levelling instruments in surveying operation
- Able 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 Road

Manikandam, Trichy-620 012.

VAC Coordinator

HoD/CIVIL

Principal



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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	I.Mr.Eswaran Project Manager Mind Soft Technologies, Bangalore
Venue	Google Meet: meet.google.com


HOD/CSE

Cc:

- 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


PRINCIPAL


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



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Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
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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
11	Exam	1	18.12.2020
Total Hours(Excluding Exam)		30	-


VAC Coordinator


Dr. G. Balakrishnan, M.E., Ph.D.,
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HOD/CSE



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichirapalli- 620 012
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Report On Value Added Course

Title	MACHINE LEARNING WITH R				
Resource Person:	Mr.Eswaran, Project Manager Mind Soft Technologies, Bangalore				
Date of conduct from :	14.12.2020	To:	18.12.2020	Duration:	30 Hours
Organized Department	COMPUTER SCIENCE AND ENGINEERING				
Participant	CSE IV,III ,II and PG I Year	No. of Students Registered	82		
Venue:	online mode Google Meet: meet.google.com/14.12.2020 to 18.12.2020				

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

- Know the fundamentals of MACHINE learning 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 Machine Learning
- Explain Services, Animations, Routing.

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/CSE


Principal


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

G. Malathi
HOD/EEE


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

“IoT-Raspberry Pi”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to IoT	3	08.02.2021
2	Basics of Networking, Communication Protocols	3	08.02.2021
3	Sensor Networks	3	09.02.2021
4	Machine-to-Machine Communications	3	09.02.2021
5	Interoperability in IoT, Introduction to Arduino Programming	3	10.02.2021
6	Integration of Sensors and Actuators with Arduino Introduction to Python programming,	3	10.02.2021
7	Introduction to Raspberry Pi, Implementation of IoT with Raspberry Pi	3	11.02.2021
8	SDN for IoT (contd), Data Handling and Analytics, Cloud Computing	3	11.02.2021
9	Fog Computing, Smart Cities and Smart Homes	3	12.02.2021
10	Connected Vehicles, Smart Grid, Industrial IoT, Industrial IoT (contd), Case Study: Agriculture, Healthcare, Activity Monitor	3	12.02.2021
11	Exam	1	12.02.2021
Total Hours (Excluding Test)		30	-


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

Principal

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


VAC Coordinator


G. Mani Latha
HOD/EEE



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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Report on Value Added Course

Title: "IoT-Raspberry Pi "					
Resource Person: M.Suresh, Design Engineer, Sri Sai Software.		A. Siva Subramanian, Trainer, Sri Sai Software			
Date of conduct from :	08.02.2021	To:	12.02.2021	Duration	30 Hours
Organized Department		Electrical and Electronics Engineering			
Participant Year:	2,3,4	No. of Students Registered :		46	
Venue:	Power System Simulation Lab, Ground floor online mode Google Meet: meet.google.com/333-5625-245				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ol style="list-style-type: none">1. Describe the concepts of IoT along with its applications.2. Build a prototype using Arduino Uno.3. Identify different types of sensors, actuators and communication Protocols.4. Build a prototype using Raspberry pi.5. Able to design an IoT application to interact.					
Assessment Process					
<ul style="list-style-type: none">• 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		 Principal	

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

Principal

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Manikandam, Trichy-620 012.



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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=K3JZd1JiS3FqTk1kenJzWStNQ0NDQT09

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

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 01.



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Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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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 and servomotors 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	-

VAC Coordinator

HOD/ECE


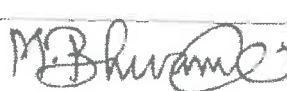

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal


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



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COLLEGE OF ENGINEERING
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REPORT ON VALUE ADDED COURSE					
Title:	"ARDUINO PROGRAMMING"				
Resource Person:	Mr.K.C.TamilVendhan, The Human Resource Manager, Galwin Technology, Trichy				
Date of conduct from :	01.02.2021	To:	05.02.2021	Duration:	30 Hours
Organized Department :	Electronics and Communication Engineering				
Participant Year:	2,3,4	No. of Students Registered :	53		
Venue:	Online Mode Link : https://us05web.zoom.us/j/2423859769?pwd=K3JZd1JiS3FqTk1kenJzWSStNQ0NDQT09				
Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to					
<ul style="list-style-type: none">• Know about the embedded systems and the structure of Arduino program• Explain the basic concepts of IoT devices• Know the types of Arduino and concepts of Arduino Tool chain• Explain the concept of sketches and pins in Arduino programming structure• Know the concepts of Aduino shields, Sensors and Actuators• Develop a project based on embedded system design using Arduino board.					
Assessment Process					
<ul style="list-style-type: none">• 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		 Principal	


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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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	<ol style="list-style-type: none">1. Mr. Balaji Trainer CADD centre Trichy2. Mr. Jaya kumar Trainer CADD centre Trichy
Venue	online mode https://meet.google.com/zcm-djnn-mdt


HOD/MECH


PRINCIPAL

Cc:

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


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



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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, Madurai Main Road
Manikandam, Trichy-620 012.


HoD/MECH



Indra Ganesan

COLLEGE OF ENGINEERING

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

Title:	Master CAM				
Resource Person:	Mr. Jayakumar, Mr. Balaji, Trainer; CADD centre, Trichy				
Date of conduct from :	07.12.2020	To:	11.12.2020	Duration:	30 Hours
Organized Department :	MECHANICAL ENGINEERING				
Participant Year:	4	No. of Students Registered :	37		
Venue:	Online mode - https://meet.google.com/zcm-djnn-mdt				

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD MECH


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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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


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



Indra Ganesan
COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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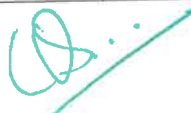
Value Added Course

“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 Object	3	06.10.2020
5	Python Installation & Configuration	3	07.10.2020
6	Data Types and Num Type Conversion	3	07.10.2020
7	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
Total Hours (Excluding Exam)		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.


HOD/IT



Indra Ganesan

COLLEGE OF ENGINEERING

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

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

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

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

REPORT ON VALUE ADDED COURSE

Title: "F&B Development in Full Stack"

Resource Person: Mr.R.Selvaraj
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 ever-demanding 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% 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/IT


Principal



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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NAAC Accredited, 2(F) Status 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	<ol style="list-style-type: none">1. Dr. R. Boobalan Assistant professor of chemistry, Indraganesan college of engineering, Trichy.2. Mrs. A.Ramya Assistant professor of chemistry, Indraganesan college of engineering, Trichy.
Venue	Google meet https://meet.google.com/ygi-fvdr-sun

Dr. R. Boobalan
HOD/S&H

[Signature]
PRINCIPAL

Cc:

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

[Signature]
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 Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012

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NAAC Accredited, 2(F) Status Institution by UGC



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	-

Sambhramaselin
VAC Coordinator

S. Babalar
HoD/S&H

(Signature)

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:	"Climate change"				
Resource Person:	Dr. R. Boobalan Assistant professor of chemistry, Indraganesan college of engineering, Trichy.		Mrs.A.Ramya Assistant professor of chemistry, Indraganesan college of engineering, Trichy.		
Date of conduct from :	7.12.2020	To:	11.12.2020	Duration:	30 Hours
Organized Department:	SCIENCE AND HUMANITIES				
Participant Year:	1	No. of Students Registered :	145		
Venue:	Google meet https://meet.google.com/ygi-fvdr-sun				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
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					
<ul style="list-style-type: none">• 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		 HoD/S&H		 Principal	

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

Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.



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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


PRINCIPAL

Cc:

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


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

Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.



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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	3	18/10/2021
2	Historical developments leading to GST / Global perspective on GST	3	18/10/2021
3	Role of GST Council / Migration to GST	3	19/10/2021
4	Registration under GST - An introduction / New registration	3	19/10/2021
5	Amendment of registration	3	20/10/2021
6	Concept of supply under GST	3	20/10/2021
7	Rate slabs / Accounts and records in GST	3	21/10/2021
8	TDS under GST / Tax collection at source	3	21/10/2021
9	Transition provisions under GST / Imports under GST	3	22/10/2021
10	Returns / GST Implementation issues	3	22/10/2021
	Assessment	1	22/10/2021
	Total Hours	30	

B. J. Loganathan
HOD/MBA


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

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





PRINCIPAL



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Report on Value Added Course

Title:	Advanced Accounting Package with GST				
Resource Person:	Mr.Sudharsan / MD Trytax Professionals Trichy				
Date of conduct from :	18/10/2021	To:	22/10/2021	Duration:	30 Hours
Organized Department :	MANAGEMENT STUDIES				
Participant Year:	2 Year MBA			No. of Students Registered :	28
Venue:	MBA Seminar Hall				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ul style="list-style-type: none">• Examine the basics of taxation and taxation structure.• Understand the development and different sub-structures under GST.• List and identify what instruments are taxable under GST.• Examine the process of implementation of GST.					
Assessment Process					
<ul style="list-style-type: none">• 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

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



Indra Ganesan

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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.

Resource Person Detail	Mr.M.Mohamedanas, Assistant Engineer, TM Design & Constructions
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.


Principal

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



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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Value Added Course on **"BIM-Building Information Technology"**

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
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	13-08-2021
Total Hours		30	-

G. Bheef
VAC Coordinator

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

(Signature)
HOD/CIVIL



Indra Ganesan

COLLEGE OF ENGINEERING
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REPORT ON VALUE ADDED COURSE

Title:	"Safety in construction"				
Resource Person:	Mr.M.Mohamed anas, Assistant Engineer, TM Design & Constructions				
Date of conduct from:	09.08.21	To:	13.08.21	Duration:	30 Hours
Organized Department:	CIVIL ENGINEERING				
Participant Year:	2, 3, 4	Semester:	ODD	No. of Students Registered:	25
Venue:	https://meet.google.com/ssd-tdmvs-gbm (Google meet link)				

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


- Impact knowledge on the usage of basic surveying instruments
- Able to use levelling instruments in surveying operation
- Able 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$.


VAC Coordinator


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


HoD/CIVIL


Principal



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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

Cc:

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



Indra Ganesan

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NAAC Accredited, 2nd Status Institution by U.C.C.





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
	TOTAL HOURS(Excluding Exam)	30	


VAC Coordinator


HOD/CSE


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



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Approved by: AICTE, New Delhi & Affiliated to Anna University, Chennai

NAAC Accredited, 2023 Status Institution by U.G.C.



Report On Value Added Course

Title	BIG DATA ANALYTICS				
Resource Person:	Mr.Vivek, Project Manager AXIS V CREATIVES PVT LTD , CHENNAI				
Date of conduct from :	14.06.2021	To:	18.06.2021	Duration:	30 Hours
Organized Department	COMPUTER SCIENCE AND ENGINEERING				
Participant	CSE IV,III ,II and PG I Year	No. of Students Registered	82		
Venue:	online mode Google Meet: meet.google.com/14.06.2021to 18.06.2021				


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

- Know the fundamentals of MACHINE learning 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 Machine Learning
- Explain Services, Animations, Routing.

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


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.



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	1. S.Sridhar, Trainer, Micro win Automation, Trichy-621216
Online Mode	Google Meet

Gr. Ma lathi
HOD/EEE

[Signature]
Principal

Cc:

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

[Signature]
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

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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
4	Incident Energy Estimation	3	10.08.2021
5	Sizing PV	3	11.08.2021
6	Maximum Power Point Tracking	3	11.08.2021
7	MPPT Algorithms	3	12.08.2021
8	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	13.08.2021
11	Exam	1	13.08.2021
Total Hours (Excluding test)		30	-

Jehy Jeyaraj
VAC Coordinator

Gr. Ma batthi
HOD/EEE

[Signature]
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.






Indra Ganesan

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Report on Value Added Course

Title:	"Solar Photo Voltaic System Design"				
Resource Persons:	S.Sridhar, Trainer, Micro win Automation, Trichy-621216				
Date of conduct from :	09.08.2021	To:	13.08.2021	Duration:	30 Hours
Organized Department :	Electrical and Electronics Engineering				
Participant Year:	2,3,4	No. of Students Registered :	44		
Venue:	online mode Google Meet: meet.google.com/333-5625-245				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ol style="list-style-type: none">1. Develop a comprehensive technological understanding in solar PV system components.2. Develop understanding on the PV plant design and select suitable technologies.3. Design and simulate a PV power plant using software tool.4. Plan project implementation, operation and maintenance.5. Carry out techno-economic-environmental performance evaluation of a solar PV power plant					
Assessment Process					
<ul style="list-style-type: none">• 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		 Principal	

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

Principal

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IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



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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=K3JZd1JiS3FqTk1kenJzWStNS0NDQ0T09


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
Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.



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Value Added Course

“PLC & INDUSTRIAL NETWORKING” SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Logic Circuit: Logic Gates, Numbering System.	3	02.08.2021
2	Interfacing Peripheral Chips: F.F., Registers, Tristate Buffers, Latches, Decoders, Memory.	3	02.08.2021
3	Introduction to PLC: Microprocessor, I/O Ports, 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 control definition, Sequential control definition, Random control definition, Interlock control 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, Logic Instruction, I/O Instruction, Program Control Instruction.	3	05.08.2021
9	Sensors, Switches, Solid State Relays, Sequential Process Control: Sequential control, Sequential control examples.	3	06.08.2021
10	Application Examples of Sequential Industrial Problem, Application Examples of Production Lines	3	06.08.2021
11	Exam	1	06.08.2021
Total Hours (Excluding Exam)		30	-


VAC Coordinator


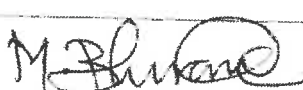


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.


HOD/ECE



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REPORT ON VALUE ADDED COURSE					
Title:	"PLC & INDUSTRIAL NETWORKING"				
Resource Person:	Mrs. Shalom Jerlin , Technical head, Hitakey Infosys, Trichy				
Date of conduct from :	02.08.2021	To:	06.08.2021	Duration:	30 Hours
Organized Department :	Electronics and Communication Engineering				
Participant Year:	2,3,4	No. of Students Registered :	53		
Venue:	<u>Online Mode link :</u> https://us05web.zoom.us/j/2423859769?pwd=K3JZd1JiS3FqTk1kenJzWSStNS0NDQT09				
Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to					
<ul style="list-style-type: none">• Know about the industrial peripheral chips, PLC / DDC• Know the PLC memories, PLC programming, PLC ladder and PLC types• Explain the PLC Basic Instructions: PLC Ladder Language, Ladder/Instruction List, PLC BasicInstructions• Know the Types of Process Control, Interlock control definition, Sequential control definition, Random control definition• Explain the Word and Branching Instruction: Data Handling Instruction, Arithmetic Instruction, PLC Internal Facilities, Logic Instruction, I/O Instruction• Develop Application Examples of Sequential Industrial Problem, Application Examples of Production Lines					
Assessment Process					
<ul style="list-style-type: none">• 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		 Principal	

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

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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.


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


HOD/MECH


PRINCIPAL

Cc:

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


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



Indra Ganesan

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

G. Deepa
VAC Coordinator

P. Ravi
HoD/MECHANICAL

(Signature)
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 Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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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 : 46

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.

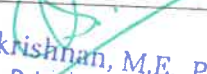
Assessment Process

- 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HOD/MECH


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

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

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



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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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
11	Exam	1	20.03.2021
Total Hours (Excluding Exam)		30	-

V. Jay

VAC Coordinator

Leup
HOD/IT

Dr. G. Balakrishnan

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: "Handling of Tools and Technology for Disaster"

Resource Person: Mr. C. Arunbalaji,
Chief Executive 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 : 63

Venue: IT Seminar Hall . <https://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% 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/IT

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

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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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.

Resource Person Detail	<ol style="list-style-type: none">1. Mr.M. Selvaraj Managing Director, Izone,, Chennai2. Mr.N.Kannan Team Leader, Izone,, Chennai
Venue	Google meet https://meet.google.com/dhq-udbv-hvc

S. Baddan
HOD/S&H

[Signature]
PRINCIPAL

Cc:

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

[Signature]
Dr. G. Balakrishnan, M.B.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING

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

“Android app development”

SYLLABUS

S.NO	TOPIC 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	3	10.05.2021
6	Basic UI design	3	10.05.2021
7	Preferences	3	11.05.2021
8	Menu	3	11.05.2021
9	Intent	2	12.05.2021
10	Advance UI design	2	12.05.2021
12	Exam	1	12.05.2021
Total Hours (Excluding exam)		31	-

V. Manikandan
VAC Coordinator

S. Subramanian
HoD/S&H

(Signature)
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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

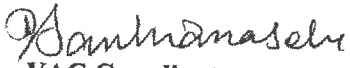
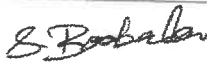



Indra Ganesan

COLLEGE OF ENGINEERING

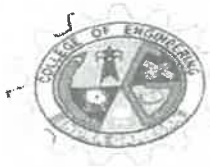
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Report on Value Added Course					
Title:	" Android app development"				
Resource Person:	Mr.M.Selvaraj Managing Director, Izone, Chennai	Mr.N.Kanna Team Leader, Izone, Chennai			
Date of conduct from :	8.05.2021	To:	12.05.2021	Duration:	30 Hours
Organized Department:	SCIENCE AND HUMANITIES				
Participant Year:	1	No. of Students Registered :	145		
Venue:	Google meet https://meet.google.com/dhq-udbv-hvc				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
1. Install and configure Android application development tools. 2. Design and develop user Interfaces for the Android platform. 3. Save state information across important operating system events. 4. Apply Java programming concepts to Android application development.					
Assessment Process					
<ul style="list-style-type: none">• 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		 HoD/S&H		 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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COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
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DEPARTMENT OF MANAGEMENT STUDIES 4.02.2021
Academic Year 2020-2021–Even Semester

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


PRINCIPAL

Cc:

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

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



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COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
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Value Added Course on "Performance Management System With Case Studies"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Performance Management System A Case Study of NTPC and Discussion	6	11.02.2021
2	Performance Management System A Case Study in IT work and Discussion	6	12.02.2021
3	Performance Management System A Case Study in Public sector and Discussion	6	13.02.2021
4	Performance Management System A Case Study in International Industrial companies and Discussion	6	14.02.2021
5	Performance Management System A Case Study in Bharathi Airtel/Tata Motors and Discussion	6	15.02.2021
Total Hours		30	

B. Theer
HOD/MBA

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

(Signature)
PRINCIPAL



Indra Ganesan

COLLEGE OF ENGINEERING

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

Title: "Performance Management System With Case Studies"

Resource Person: Mr. A. Jen Franklin
Tool Fab Engineering Industries Private Limited Trichy

Date of conduct from: 11.02.2021 To: 16.02.2021 Duration: 36 Hours

Organized Department: MANAGEMENT STUDIES

Participant Year: 1MBA No. of Students Registered: 26

Venue: MBA-Seminar Hall

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

- NTPC, performance management system evaluates five components namely performance, competencies, values, potential appraisal, performance and potential appraisal.
- Aligning employee behavior with strategy
- Determine whether any governments have implemented "high performance" systems, rather than a comprehensive survey approach
- A new model for performance analysis based on four main perspectives of international industrial companies.
- A positive feedback will encourage the employee to work smarter and look for opportunities of Growth or Incentives

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/MBA


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

COLLEGE OF ENGINEERING

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

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Department of CIVIL ENGINEERING

Academic Year 2019-2020 – Odd Semester

04.12.2019

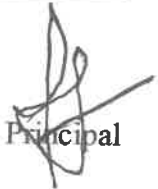
DEPARTMENT CIRCULAR

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	<ol style="list-style-type: none">Er.T Vinayaga Murthi, Managing Director, 5D Architects & construction; Trichy- 620012Mr.K Ganesa Babu, Trainee, 5D Architects & construction; Trichy- 620012
Venue	CIVIL IIIyr Classroom, IGCE


HOD/CIVIL


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


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



Indra Ganesan

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

Value Added Course

“Estimation and current practices in civil engineering”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction of construction industries and construction projects	3	09.12.2019
2	Sequences and schedule of work of building construction with all standard Norms	3	09.12.2019
3	Brief study of building structure from foundation to top level of building	3	10.12.2019
4	Quantity take off techniques by Auto CAD Drawing on MS-Excel sheet	3	10.12.2019
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 standard IS Code	3	12.12.2019
8	Estimation of extra items in frame work	3	12.12.2019
9	Estimation of concrete work items in frame work (footing, beam, columns, slab, staircase, RCC walls, Lift wall)	3	13.12.2019
10	Estimation of bricks, stone and blocks masonry wall	3	13.12.2019
11	Exam	1	13.12.2019
Total Hours		36	-

Ramalingam
VAC Coordinator

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

Dr. S. S. S. S.
HOD/CIVIL



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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REPORT ON VALUE ADDED 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 & construction; Trichy	
Date of conduct from :		09.12.2019	To:	13.12.2019	Duration: 30 Hours
Organized Department :		CIVIL ENGINEERING			
Participant Year:		2, 3, 4	Semester:	ODD	No. of Students Registered: 44
Venue:		CIVIL Classroom, 2 nd floor, IGCE			

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

- To make familiar with calculation of quantities for different items of works & provide knowledge about estimation of buildings through estimator-2.0 software
- On completion of this course the students will be able to know the process of making animation of building, sketch up the building plan and building model.
- Understand and apply various methods of quantity estimation measurement in construction projects.
- Estimating, bricks calculations and cost for different materials.

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$

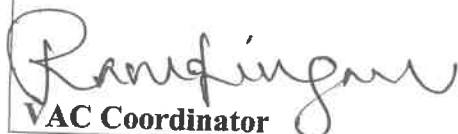
Dr. G. Balakrishnan, M.E., Ph.D.,

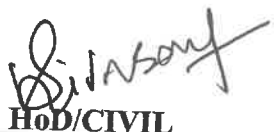
Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.


VAC Coordinator


HoD/CIVIL


Principal



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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	<ol style="list-style-type: none">1. Mr.C.ArunBalaji Project Manager JD Software Pvt Ltd Vandalur- 6000482. R.Sathish Kumar JD Software Pvt Ltd Vandalur- 600048
Venue	SD LAB II FLOOR NETWORKS LAB II FLOOR


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


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

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Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
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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
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.


HOD/CSE



Indra Ganesan

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

Title:	PHP				
Resource Person:	Mr. C.Arunbalaji JD Software Pvt Ltd Vandalur	Mr.R.Sathish Kumar JD Software Pvt Ltd Vandalur			
Date of conduct from :	16.12.2019	To:	21.12.2019	Duration:	36 Hours
Organized Department :	COMPUTER SCIENCE AND ENGINEERING				
Participant Year:	CSE IV,III ,II and M.E-II Year		No. of Students Registered :	99	
Venue:	SD LAB and NETWORK LAB II FLOOR				

Outcome of Value Added Course (VAC): At the end of the Course, Students 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


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.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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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	1. Dr.M.Abbas, Design Engineer, Sri Sai Software.
Venue	EEE III yr Classroom, IGCE

G. Ma Lathi

HOD/EEE

[Signature]
PRINCIPAL

Cc:

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

[Signature]
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 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	-


VAC Coordinator





HOD/EEE


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

Report on Value Added Course					
Title:	"Automation and Robotics"				
Resource Person:	Dr.M.Abbas, Design Engineer, Sri Sai Software				
Date of conduct from :	09.12.2019	To:	13.12.2019	Duration:	30 Hours
Organized Department :	Electrical and Electronics Engineering				
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					
<ul style="list-style-type: none">● 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					
<ul style="list-style-type: none">● 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		 Principal	


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

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

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



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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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 RATE Generator	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	-

R. Dithy
VAC Coordinator

M. Balakrishnan
HOD/ECE

(Signature)
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: "PIC Microcontroller and ARM processor"

Resource Person: Mr.M.Senthil Murugan, R&D,Pantech Solutions, Trichy
Mr.K.Manokar, 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/ECE


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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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.

Resource Person Details	<ol style="list-style-type: none">1. Mr. Prabahar Trainer CADD centre Trichy2. Mr. Jaya kumar Trainer CADD centre Trichy
Venue	Mechanical Seminar Hall, IGCE

HOD, MECH

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



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
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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


HoD/MECH


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 Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Report on Value Added Course

Title:	Evaluation of CREO			
Resource Person:	Mr. Jayakumar & Mr. Prabahar, Trainer, CADD centre, Trichy			
Date of conduct from :	09.12.2019	To:	13.12.2019	Duration: 30 Hours
Organized Department :	MECHANICAL ENGINEERING			
Participant Year:	4	No. of Students Registered :	41	
Venue:	Mechanical Seminar hall			

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

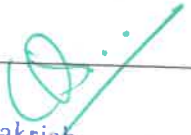
Assessment Process

- 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HOD/MECH


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

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

Java Program	1. Mr. M. Vivek, Chief Executive Officer Azatech Pvt, Ltd, Chennai 2. Mr.S. Anto Chief Executive Officer Infosys ,Chennai
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

“ 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	-


VAC Coordinator


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

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


HOD / IT



REPORT ON VALUE ADDED COURSE

Title: **“Cloud Service Management Tools”**

Resource Person: **Mr. M. Vivek, Azatech Pvt, Ltd, Chennai** **Mr.S. Anto Infosys 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
- 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


Principal


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



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Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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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 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	<ol style="list-style-type: none">1. Mr, C. Arun Balaji Managing director JD Pvt Ltd Chennai2. Mr A. Saravanan Team Leader JD Pvt Ltd 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


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 Main Road (NH-45B), Manikandam, Trichy-12.
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Value Added Course


"Multimedia design"

SYLLABUS

S.NO	TOPIC 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 Software	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	-


VAC Coordinator

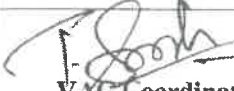
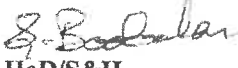


HoD/S&H


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



Indra Ganesan

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

Report on Value Added Course			
Title:	" Multimedia design "		
Resource Person:	Mr, C. Arun Balaji Managing director JD Pvt Ltd Chennai	Mr A. Saravanan Team Leader JD Pvt Ltd Chennai	
Date of conduct from :	16.12.2019	To:	20.12.2019
Duration:	30 Hours		
Organized Department:	SCIENCE AND HUMANITIES		
Participant Year:	1	No. of Students Registered :	78
Venue:	AUDITORIUM		
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to			
1. Understand the basic concepts of multimedia technology. Which will help them to get started easily in multimedia			
2. Get knowledge about various terms like, images, text, fonts, file formats. Understanding these things is very necessary.			
3. Know about the various compression techniques, types of compressions etc.			
4. Understand design process, image processing, and adobe premiere. Design process is very important process for those who want to learn properly about designing.			
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	 HoD/S&H	 Principal	

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

Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.



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COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichirapalli - 620 012
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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

B. Theer
HOD/MBA

Cc:

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

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

[Signature]
PRINCIPAL



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Value Added Course on “Special Training on Digital Marketing”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction To Digital Marketing	3	24.06.2019
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	-

B. Theer
HOD/MBA

[Signature]
Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

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

[Signature]
PRINCIPAL



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Report on Value Added Course

Title: **Special Training on Digital Marketing**

Resource Person: **Mr. V. Arunkumar**
MD
M/s White & Black Digital Marketing
Trichy.

Date of conduct from : **24.06.2019** To: **28.06.2019** Duration: **30 Hours**

Organized Department : **MANAGEMENT STUDIES**

Participant Year: **2 Year MBA** No. of Students Registered : **42**

Venue: **MBA – Seminar Hall**

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

- Creating a successful digital marketing strategy
- Gaining insight into search engine operations.
- 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/MBA


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

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, through, <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	1. Mr.K. KUMAR, Assistant Engineer, Kalam Construction, Thanjavur, Tamilnadu
Venue	https://meet.google.com/mnd-tpqm-gb (Google Meet)


HOD/CIVIL


Principal

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.,
Principal

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



Indra Ganesan

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


HOD/CIVIL



Indra Ganesan

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

REPORT ON VALUE ADDED COURSE

Title: "Safety in construction"

Resource Person:

Mr.K. KUMAR,
Assistant Engineer,
Kalam Construction,
Thanjavur, Tamilnadu

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

Date of conduct from: 20.07.20 To: 24.07.24 Duration: 30 Hours

Organized Department: CIVIL ENGINEERING

Participant Year: 2, 3, 4 Semester: EVEN No. of Students Registered: 44

Venue: <https://meet.google.com/mnd-tpqm-gb>(Google meet link)

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 indices-violation, 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

Principal



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Department of Computer Science & Engineering

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


HOD/CSE


PRINCIPAL

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


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



Indra Ganesan

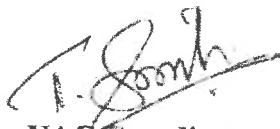
COLLEGE OF ENGINEERING

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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	


VAC Coordinator




Hod/CSE

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Manikandam, Trichy-620 012.



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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				
Participant Year:	CSE IV,III,II, and M.E-II		No. of Students Registered :	99	
Venue:	online mode Google Meet: meet.google.com/22.06.2020 to 26.06.2020				

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

- 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/CSE


Principal



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Manikandam, Trichy-620 012.



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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

G. Ma lathi
HOD/EEE

[Signature]
PRINCIPAL

Cc:

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

[Signature]
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Manikandam, Trichy-620 012.



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Value Added Course

“Smart Grid Technology”

SYLLABUS

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
3	Introduction to energy storage devices. 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
6	Modelling of DC smart grid components Operation and control of AC Microgrid	3	22.12.2019
7	Operation and control of AC-DC hybrid Microgrid	3	23.12.2019
8	Phasor measurement unit placement Cyber security and resiliency Virtual inertia and ancillary support	3	23.12.2019
9	Simulation and case study of AC Microgrid Simulation and case study of DC Microgrid Simulation and case study of AC-DC Hybrid Microgrid Demonstration of parallel inverter operation in AC Microgrid	3	24.12.2019
10	Design of Smart Grid and Practical Smart Grid Case Study, System Analysis of AC/DC Smart Grid	3	24.12.2019
11	Exam	1	24.12.2019
Total Hours (Excluding Test)		30	-


VAC Coordinator


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


Gr. Ma lath
HOD/EEE

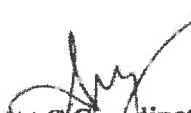




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COLLEGE OF ENGINEERING

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Report on Value Added Course					
Title:	"Smart Grid Technology"				
Resource Persons:	K. Marimuthu, Senior Project Trainer, Smart Power Care, Thillai Nagar, Trichy.				
Date of conduct from :	20.07.2020	To:	24.07.2020	Duration:	30 Hours
Organized Department :	Electrical and Electronics Engineering				
Participant Year:	2,3,4	No. of Students Registered :	63		
Venue:	online mode Google Meet: https://meet.google.com/hbp-aczr-dge				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ol style="list-style-type: none">1. Know the fundamental element of the smart grid and power grid.2. Understand different communication technologies used in smart grids.3. Get accustomed with the fundamentals of SCADA and IED4. Understand the Importance of Automation in Substation and substation Automation.5. Understand the Energy management systems in era of smart grid.6. Understand the distribution automation for smart grid development.					
Assessment Process					
<ul style="list-style-type: none">• 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		 Principal	

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

Principal

Indra Ganesan College of Engineering

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Manikandam, Trichy-620 012.



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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>

Resource Persons	1.Mr.Tamil Vendhan, Human Resource Manager Galwin Technologies , Trichy 2.Mr.Deepan, Trainer Galwin Technologies , Trichy
Venue	Online Mode

M. Bhuvanesh

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

Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.



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

R. D. D. D.
VAC Coordinator

M. B. B.
HOD/ECE

G. B.
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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COLLEGE OF ENGINEERING

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REPORT ON VALUE ADDED COURSE

Title: "Internet of Things"

Resource Person: Mr. Tamil Vendhan K.C, Human Resource Manager Galwin Technology, Trichy
Mr. Deepan, Trainer, Galwin Technology, 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

Venue: Online Link: <https://meet.google.com/jym-woxq-voo>

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)

R. Dithy
VAC Coordinator

M. Bhuvanesh
HoD/ECE

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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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.


Resource Person Details	<ol style="list-style-type: none">1. Mr. Mr. Suresh Trainer NIT Siemens Trichy2. Mr. Jaya Kumar Trainer NIT Siemens Trichy
Venue	Mechanical Seminar Hall, IGCE

HOD MECH

PRINCIPAL

Cc:

- Principal office
- Class In charges - II, III & IV Year
- Class Rooms-II, III, IV Year
- 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.



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COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichirapalli- 620 012
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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. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.


HoD/MECH



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Report on Value Added Course

Title:	External Aerodynamics Simulations		
Resource Person:	Mr. Suresh, Trainer. NIT Siemens, Trichy	Mr. Vijay Trainer NIT Siemens, Trichy	
Date of conduct from :	01.06.2020	To: 05.06.2020	Duration: 30 Hours
Organized Department :	MECHANICAL ENGINEERING		
Participant Year:	2,3	No. of Students Registered :	65
Venue:	Mechanical Seminar hall		

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/MECH


Principal


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



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COLLEGE OF ENGINEERING
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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.

“IOT	1 Ms. U. Liza, Chief Executive Officer, Leo Tech, Vizro
Venue	IT Seminar Hall, IGCE


HOD/IT


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



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COLLEGE OF ENGINEERING
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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 Methodologies	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	-


VAC Coordinator


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


HOD / IT



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REPORT ON VALUE ADDED COURSE

Title: "Smart Computing Technologies in IOT"

Resource Person: Ms. U. Liza,
Chief Executive Officer,
Leo Tech, Vizro

Date of conduct from : 25.05.2020 To: 29.04.2020 Duration: 30 Hours

Organized Department : INFORMATION TECHNOLOGY

Participant Year: 2,3,4 No. of Students Registered : 77

Venue: IT Seminar Hall meet.google.com/uke-cuhd-emh

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

- CO1: To understand the architecture of embedded processors.
- CO2: To Utilize embedded C programs.
- CO3: Study simple embedded applications.
- CO4: To Compare the communication models in IOT
- CO5: Establizing Design IoT applications using Arduino/Raspberry Pi /open platform
- CO6: To study smart computing technologies.

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/IT


Principal

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

Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.



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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	<ol style="list-style-type: none">1. Mr,Vivek Managing Director Azatech, Pvt Chennai2. Mr A. Saravanan Team Leader Izone, Chennai
Venue	Auditorium, IGCE

S. Boobalan
HOD/S&H

[Signature]
PRINCIPAL

Cc:

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

[Signature]
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

“Recent development in nanotechnology”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Nanoscience and Nanotechnology	3	11.05.2020
2	Synthesis and Characterization of Nanomaterials	3	11.05.2020
3	Synthesis of different types of nanocomposites	3	12.05.2020
4	Instrumentation techniques for characterization of nanomaterials	3	12.05.2020
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.D.,
Principal




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Manikandam, Trichy-620 012.



HoD/S&H



Indra Ganesan

COLLEGE OF ENGINEERING
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Report on Value Added Course					
Title:	"Recent development in nanotechnology"				
Resource Person:	Mr, Vivek Managing Director Azatech, Pvt Chennai	Mr A. Saravanan Team Leader Izone, Chennai			
Date of conduct from :	11.05.2020	To:	22.05.2020	Duration:	30 Hours
Organized Department:	SCIENCE AND HUMANITIES				
Participant Year:	1	No. of Students Registered :	78		
Venue:	AUDITORIUM				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
1. Understand the basics of nano Science and Technology					
2. Preliminary methods of different type of nan composites fabrication.					
3. Understand about different instrumentation techniques like AFM, SEM, TEM for nanomaterial characterization.					
4. Understand information about applications of nano composites in medicine, industry etc.					
5. Provide an opportunity to develop inter-disciplinary skills for interdisciplinary research.					
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/S&H	 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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Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli - 620 012
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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

B. J. The
HOD/MBA

[Signature]
PRINCIPAL

Cc:

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

[Signature]
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 Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

“Value Added Course on “ERP Basics and Its Applicability in Modern Era”

SYLLABUS

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

B. Itan
HOD/MBA

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

Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.

[Signature]
PRINCIPAL



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COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Report on Value Added Course

Title: "ERP Basics and Its Applicability in Modern Era"

Resource Person: Mr. Sudharsan / MD
Trytax Professionals
Trichy

Date of conduct from : 06.01.2020 To: 10.01.2020 Duration: 30 Hours

Organized Department : MANAGEMENT STUDIES

Participant Year: 1 Year MBA No. of Students Registered : 28

Venue: Main Block – Seminar Hall

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

- Realizing the requirements of user organisations
- Need to analyse cost or revenue on product or customer basis
- Provides intelligent business tools like Decision Support system
- Reduce paper documents by providing on-line format
- BPR aims at major transformation of business process to achieve dramatic improvement.
- SAP is a unique system that support all areas of global scale

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.,
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Manikandam, Trichy-620 012.



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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


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
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Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING

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

DEPARTMENT OF CIVIL ENGINEERING

Value Added Course on "REVIT ARCHITECTURE"

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
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 ceiling and lamp, Edit profile to all object	3	20.06.2018
4	stairs and ramp and railing Creation curtain wall ceiling 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)	


VAC Coordinator


HoD/CIVIL



Indra Ganesan

COLLEGE OF ENGINEERING

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

Approved by AICTE, New Delhi & 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, 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$

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

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

VAC COORDINATOR

HoD/CIVIL

PRINCIPAL



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Department of Computer Science & Engineering

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, Trichy,
	2. Mr. V.Roshan Trainer Blue Fire Xperts Infotech OPC Pvt Ltd, Trichy
Venue 1	SD LAB
Venue 2	NETWORK LAB


HOD/CSE


PRINCIPAL

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


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Department of Computer Science & Engineering


Academic Year 2018-2019 – Odd Semester

Value Added Course on

“Data Mining”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	INTRODUCTION <ul style="list-style-type: none">➤ 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 <ul style="list-style-type: none">➤ Data Warehouse and DBMS➤ Multidimensional data model➤ OLAP operations➤ Example: loan data set	3	17.12.18
3	Data preprocessing <ul style="list-style-type: none">➤ Data cleaning➤ Data reduction➤ Installing Weka 3 Data Mining System➤ Experiments with Weka - filters, discretization	3	18.12.18
4	Data mining knowledge representation <ul style="list-style-type: none">➤ Task relevant data	3	18.12.18


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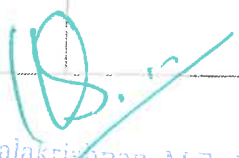
Indra Ganesan

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

Academic Year 2018-2019 – Odd Semester

	<ul style="list-style-type: none">➤ Background knowledge➤ Interestingness measures➤ Representing input data and output knowledge➤ Visualization techniques➤ Experiments with Weka - visualization		
5	Attribute-oriented analysis <ul style="list-style-type: none">➤ Attribute generalization➤ Attribute relevance➤ Class comparison➤ Statistical measures➤ Experiments with Weka - using filters and statistics	3	19.12.18
6	Data mining algorithms: Association rules <ul style="list-style-type: none">➤ 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	3	19.12.18
7	MULTITHREADING <ul style="list-style-type: none">➤ Multi-tasking Vs Multithreading➤ Life Cycle of Thread Java.lang.thread Vs Java.lang.runnable➤ Developing Multithreaded Applications➤ Synchronization➤ Dead-Lock➤ Inter-thread communication	3	20.12.18
8	Data mining algorithms: Classification <ul style="list-style-type: none">➤ Basic learning/mining tasks➤ Inferring rudimentary rules: 1R algorithm➤ Decision trees➤ Covering rules	5	20.12.18


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Department of Computer Science & Engineering

Academic Year 2018-2019 – Odd Semester

	<ul style="list-style-type: none">➤ Experiments with Weka - decision trees, rules		
9	<p>Data mining algorithms: Prediction</p> <ul style="list-style-type: none">➤ The prediction task➤ Statistical (Bayesian) classification➤ Bayesian networks➤ Instance-based methods (nearest neighbor)➤ Linear models➤ Experiments with Weka - Prediction	4	21.12.18
10	<p>Clustering</p> <ul style="list-style-type: none">➤ Basic issues in clustering➤ First conceptual clustering system: Cluster/2➤ Partitioning methods: k-means, expectation maximization (EM)➤ Hierarchical methods: distance-based agglomerative and divisible clustering➤ Conceptual clustering: Cobweb➤ Experiments with Weka - k-means, EM, Cobweb	5	22.12.18
11	Exam	1	22.12.18
Total Hours		36	-


VAC Coordinator


HoD/CSE


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Department of Computer Science & Engineering

Academic Year 2018-2019 – Odd Semester

Report on Value Added Course

Title: **Data Mining**

Resource Person:

Mr. A.R. Sooriyaoli,
Managing Director,
Blue Fire Xperts Infotech OPC Pvt
Ltd, Trichy,

Mr. V. Roshan
Trainer
Blue Fire Xperts Infotech OPC Pvt
Ltd, Trichy

Date of conduct from : **17.12.18** To: **22.12.18** Duration: **36 Hours**

Organized Department : **COMPUTER SCIENCE AND ENGINEERING**

Participant Year:

UG-II,III,IV
PG-I,II

No. of Students Registered :

UG -106
PG - 09
TOTAL-
115

Venue: **SD LAB & NETWORK LAB**
IGCE

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

- Know the concepts of functionality of the various data mining and data warehousing component
- Appreciate the strengths and limitations of various data mining and data warehousing model .
- Know the concept of Explain the analyzing techniques of various data .
- 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/CSE


Principal


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

G. Malathi

HOD/EEE

[Signature]
PRINCIPAL

Cc:

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

[Signature]
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 Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Value Added Course

“Electrical Machine Design, Winding, Assembling, & Dismantling”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	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
Total Hours (Excluding Exam)		30	-


VAC Coordinator


HoD/EEE


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

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



Indra Ganesan

COLLEGE OF ENGINEERING

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

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Report on Value Added Course

Title: "Electrical Machine Design, Winding, Assembling, & Dismantling"

Resource Persons: 1. Mr. Kavitha, Design Engineer, Smart Power Care, Thillai Nagar, Trichy. 2. C. Rajesh Khanna, Trainer Smart Power Care, Thillai Nagar, Trichy.

Date of conduct from : 10.12.2018 To: 14.12.2018 Duration: 30 Hours

Organized Department : Electrical and Electronics Engineering

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)


VAC Coordinator


HoD/EEE


Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Department of Electronics and Communication Engineering

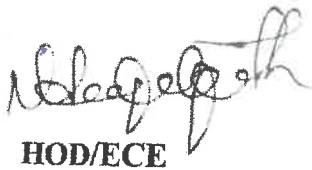
Academic Year 2018-2019 –ODD Semester

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.

Resource Persons	1.Mr.K.C.TamilVendhan, The Human Resource Manager, Galwin Technology, Trichy 2.Mr.Deepan Trainer Galwin Technology, Trichy
Venue	DSP lab and Optical Lab, ECE


HOD/ECE


PRINCIPAL

Cc:

- Principal Office
- IQAC Coordinator
- Class In-charges-II,III&IV-Year
- II,III & I V-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.



Indra Ganesan

COLLEGE OF ENGINEERING
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Value Added Course on "PCB DESIGNING"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Resistor types, Capacitor types, Diode types, LED, Seven segment, 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 RELAY DRIVER CIRCUIT 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
8	Layer study, Double layer creation, Multi Layer creation and script, making of a PCB of DC power supply circuit	3	13.12.2018
9	Drilling, Soldering of components and Testing of DC power supply circuit	3	14.12.2018
10	Fabrication of PCB designing, Testing and trouble shooting of MINI PROJECT circuit	3	14.12.2018
11	Exam	1	14.12.2018
Total Hours (Excluding Exam)		30	-

Kirif

VAC Coordinator

Madhavan

HOD/ECE

G. Balakrishnan

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

Principal


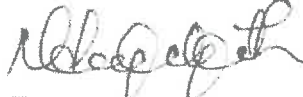

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.




Indra Ganesan

COLLEGE OF ENGINEERING

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

Report on Value Added Course					
Title:	PCB DESIGNING				
Resource Person:	Mr.K.C.TamilVendhan, The Human Resource Manager, Galwin Technology, Trichy	Mr.Deepan Trainer Galwin Technology, Trichy			
Date of conduct From:	10.12.2018	To:	14.12.2018	Duration:	30 Hours
Organized Department:	ELECTRONICS AND COMMUNICATION ENGINEERING				
Participant Year:	2,3,4	No.of Students Registered:	72		
Venue:	DSP lab and Optical Lab,ECE				
Outcome of Value Added Course :At the end of the Course, Students can able to					
<ul style="list-style-type: none">• Know the functions & characteristics of LED, Seven segment, Timer555andOp-amp• Explain the basic concepts of PCB schematic and Relay Driver Circuit Board• Know the installation of EAGELSOFTWARE& creation of DC Power Supply Circuit• Explain the Routing techniques and Gerber file creation• Know the Soldering of components and testing of DC power supply circuit• Develop the trouble shooting of MINIPROJECT circuit					
Assessment Process					
<ul style="list-style-type: none">• Students,whoaresecuringmorethan60%ontotalscoreandsecuredmorethan75%inattendance 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/ECE		 Principal	


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


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


HOD/MECH


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



Value Added Course

“Introduction to CAD, CAM & Practical CNC Machining”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to CAD, CAM & CNC Machining	3	05.11.2018
2	Get foundational knowledge in computer aided design, manufacture, and the practical use of CNC machines for milling.	3	05.11.2018
3	Explore how to properly sketch and model 3D parts.	3	06.11.2018
4	Explore the basics of setting up a CAM program and defining tool paths to cut simple geometry.	3	06.11.2018
5	Explain the CAD design process as applied to prismatic parts.	3	07.11.2018
6	Workflow of digital manufacturing.	3	07.11.2018
7	Demonstrate knowledge and skills in basic Fusion 360 CAM.	3	08.11.2018
8	Recall foundational knowledge of practical CNC machining.	3	08.11.2018
9	New tutorials that explore thin Extrude, CAM tool library, NC Program, and sheet setup.	3	09.11.2018
10	Updated practice and challenge exercises.	3	09.11.2018
11	Exam	1	09.11.2018
Total Hours (Excluding Assessment)		30	-


VAC Coordinator


HOD/Mech


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

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Manikandam, Trichy-620 012.



Indra Ganesan

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

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: Introduction to CAD, CAM & Practical CNC Machining

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: 30 Hours

Organized Department : MECHANICAL ENGINEERING

Participant Year: 2,3,4 No. of Students Registered : 106

Venue: Mechanical Seminar Hall

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/MECH


Principal



Indra Ganesan

COLLEGE OF ENGINEERING

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

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.

Resource Person Detail	1.Mr.M.SenthilKumar, Chief Executive Officer Marcello Tech, Chennai. 2.Mr.Pradeep Kumar Chief Executive Officer Marcello Tech, Chennai.
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
- Class In charges - II, III & IV-Year
- II, III & IV-Year IT Students
- Office File
- Notice Board



Indra Ganesan

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


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	-


VAC Coordinator


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


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

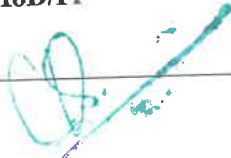
Assessment Process

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


VAC Coordinator


HoD/IT


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

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

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.

Resource Person Detail	<ol style="list-style-type: none">1. Mr.M.Senthilkumar Managing Director, MecelloTech, Chennai2. 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
- NoticeBoard


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

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	3	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	Basics of presentation software; Creating Presentation.	3	14.12.2018
11	Exam	1	14.12.2018
Total Hours (Excluding Exam)		30	-

T. Kalavani

VAC Coordinator

[Signature]
HoD/S&H

[Signature]
Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

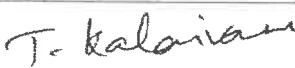


JG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Indra Ganesan

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

Report on Value Added Course			
Title:	"Computer Fundamentals"		
Resource Person:	Mr. M. Senthilkumar Managing Director, Mecello, Tech, Chennai	Mr. S. Aravindh Team Leader, Mecello, Tech, Chennai	
Date of conduct from :	10.12.2018	To: 14.12.2018	Duration: 30 Hours
Organized Department:	SCIENCE AND HUMANITIES		
Participant Year:	1	No. of Students Registered :	123
Venue:	AUDITORIUM		
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to			
<ol style="list-style-type: none">1. Handle a computer system for day to day use.2. Enumerate different types of input/ output devices and types of memory.3. Perform basic arithmetic operations using different number systems including binary arithmetic4. Differentiate between system and application software.5. Prepare documents / spreadsheets.			
Assessment Process			
<ul style="list-style-type: none">• 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/S&H	 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

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

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

B. Theer
HOD/MBA

[Signature]
PRINCIPAL

[Signature]
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



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

“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	-

B. Theer
HOD/MBA

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

[Signature]
PRINCIPAL



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

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 :

61

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/MBA


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

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

Sivasamy
HOD/CIVIL

[Signature]
Principal

Cc:

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

[Signature]
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 Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

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)	

E. Vignesh
VAC Coordinator

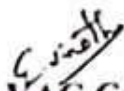
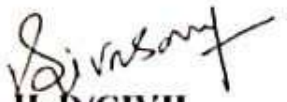

Sivasamy
HoD/CIVIL



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

Report On Value Added Course					
Title:	IMPORTANCE OF CIVIL ENGINEERING SOFTWARES				
Resource Person:	Mr.A RAMASAMY, TECHNICAL HEAD G.SIVA TRAINER, TM DESIGN TECHNOLOGY COIMBATORE.				
Date of conduct from :	10.12.2018	To:	14.12.2018.	Duration:	30 Hours
Organized Department :	CIVIL ENGINEERING				
Participant Year:	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					
<ul style="list-style-type: none">• 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					
<ul style="list-style-type: none">• 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$					
 VAC Coordinator		 HoD/CIVIL		 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

COLLEGE OF ENGINEERING

Madurai Main Road (NH 45B), Manikandam, Tiruchirapalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Department of Computer Science & Engineering

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 Venue 2	SD LAB 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.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH 45B), Manikandam, Tiruchirappalli- 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Department of Computer Science & Engineering

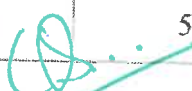
Academic Year 2018-2019 – Even Semester

Value Added Course on

“C#”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	INTRODUCTION <ul style="list-style-type: none">➤ 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 <ul style="list-style-type: none">➤ Why Datatypes Global, Stack and Heap Memory➤ Common Type System➤ Casting between other datatypes	3	10.06.2019
3	OOPs-Inheritance <ul style="list-style-type: none">➤ Introduction to Inheritance➤ Static and Dynamic Binding➤ Abstract Class	3	11.06.2019
4	OOPs-Interface & Polymorphism <ul style="list-style-type: none">➤ Overview of Interface➤ Interface with examples➤ Types of Inheritance	3	11.06.2019
5	Assemblies and GAC <ul style="list-style-type: none">➤ 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 <ul style="list-style-type: none">➤ Defining Exception➤ Understandings try and catch keywords➤ Creating User defined/Custom Exception class	3	12. 06.2019
7	IO Streams <ul style="list-style-type: none">➤ What is a streams?➤ Serialization / Deserialization	3	13. 06.2019
8	Developing GUI Application Using WINFORMS	5	13. 06.2019


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 Main Road (NH-45B), Manikandam, Trichirapalli- 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

	<ul style="list-style-type: none">➤ Basic Controls➤ Panel & Layouts Drawing and GDI Devices➤ Working with Resource Files and Setting➤ Notify Icon Controls		
9	Database Programming Using ADO.NET <ul style="list-style-type: none">➤ 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
10	Packaging and Deployment <ul style="list-style-type: none">➤ File System Editor Registry Editor➤ Launch Condition Editor➤ Creating Uninstall Shortcut	5	15. 06.2019
11	Exam	1	15. 06.2019
Total Hours		36	-


VAC Coordinator


HoD/CSE



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 Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

Report on Value Added Course

Title:

C#

Resource Person:

Mrs. Sankari,
Project Manager,
Flink Technologies,
Kumbakonam

Mr. M. Krishnan,
Trainer Flink Technologies
Kumbakonam

Date of conduct from :

10.06.2019

To:

15.06.2019

Duration:

36 Hours

Organized Department :

COMPUTER SCIENCE AND ENGINEERING

Participant Year:

UG-II,III,IV

PG-I,II

No. of Students Registered :

UG -106

PG - 09

TOTAL-115

Venue:

SD LAB & NETWORK LAB
IGCE

Outcome of Value Added Course (VAC): At the end of the Course, Students 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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


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.



Indra Ganesan

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

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	1. Ms.G.Vijaya, Trainer, Micro win Automation, Tiruchirappalli-621216 2. Mr.K.Ranganathan, Trainer, Micro win Automation, Tiruchirappalli-621216
Venue	Power System Simulation Lab, IGCE

G. Ma bathi

HOD/EEE

[Signature]
PRINCIPAL

Cc:

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

[Signature]
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

“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	-

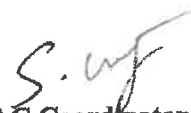


S. W. J.
VAC Coordinator

Ge. Ma lathi
HOD/EEE

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



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	Mr.K.Ranganathan, Trainer, Micro win Automation, Tiruchirappalli-621216			
Date of conduct from :	24.06.2019	To:	28.06.2019	Duration:	30 Hours
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					
<ul style="list-style-type: none">● 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					
<ul style="list-style-type: none">● 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		 Principal	


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Department of Electronics and Communication Engineering

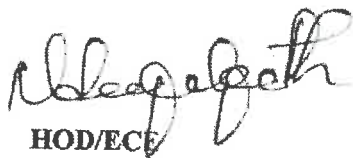
Academic Year 2018-2019 –EVEN Semester

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.

Resource Person Detail	1. Mrs. Shalom Jerlin, Technical Head, Hitakey Infosys, Trichy 2. Mr. R. Hemnath, Trainer, Hitakey Infosys, Trichy
Venue	DSP lab and Optical 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

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



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Value Added Course

“RASPBERRY PI”

SYLLABUS

S.NO	TOPIC COVERED	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
9	Accessing SMTP inbox using Python, Manipulating GPIO pins using Python, Making Raspberry Pi- a web server, Apache installation	3	21.06.2019
10	Configuring and deploying Apache, Hosting a website, Hosting a blog on Raspberry Pi, Home automation using Raspberry Pi	3	21.06.2019
11	Exam	1	21.06.2019
Total Hours (Excluding Exam)		30	-

Kiriy

VAC Coordinator

Abdul Kadir
HOD/ECE

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

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road


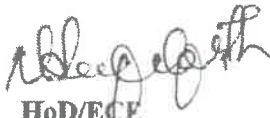

Manikandam, Trichy-620 012.



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Report on Value Added Course

Title:	RASPBERRY PI				
Resource Person:	Mrs. Shalom Jerlin, Technical Head, Hitakey Infosys, Trichy		Mr. R. Hemnath, Trainer, Hitakey Infosys, Trichy		
Date of conduct from :	17.06.2019	To:	21.06.2019	Duration:	30 Hours
Organized Department :	ELECTRONICS AND COMMUNICATION ENGINEERING				
Participant Year:	2, 3, 4		No. of Students Registered :	72	
Venue:	DSP LAB and Optical Lab, ECE				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ul style="list-style-type: none">• Know the versions of Raspberry Pi and their differences• Know the Setting up using GUI, Setting up using command line, Finding Pi's IP address• Explain the installation of VNC and configuration of LINUX• Know the Essentials of Python, Interpreted languages, Variables, Keywords, Operators and operands, Data types• Explain the Making of Raspberry Pi as a web server• Develop Home automation using Raspberry Pi					
Assessment Process					
<ul style="list-style-type: none">• 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		 HoD/ECE		 Principal	

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

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Manikandam, Trichy-620 012.



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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


Ho/MECH

Cc:

- Principal office.
- Class In charges - II, III & IV Year
- Class Rooms of II, III, IV Year
- 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.



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
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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	-


VAC Coordinator


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


HoD/MECHANICAL



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
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REPORT ON VALUE ADDED COURSE


Title:	Model Based Systems Engineering			
Resource Person:	Mr. Balaji Trainer CADD center Trichy	Mr. Jaya kumar Trainer CADD center Trichy		
Date of conduct from :	11.06.2019	To:	15.06.2019	Duration: 30 Hours
Organized Department :	Mechanical Engineering			
Participant Year:	2,3,4	No. of Students Registered :	106	
Venue:	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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/MECH


Principal

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

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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.

Resource Person Detail	1. Mrs. Sankari Project Manager Flink Technologies, Chennai 2. Mrs. Vidhyasri Project Manager Flink Technologies, Chennai
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
- Class In charges - II, III & IV-Year
- II, III & IV-Year IT Students
- Office File
- Notice Board



Indra Ganesan

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

Value Added Course

“Android App Development”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Android	3	08.04.2019
2	Basic Building Blocks-Activities, services	3	08.04.2019
3	First sample Application	3	09.04.2019
4	Emulator- Virtual Device	3	09.04.2019
5	Android- Virtual Device	3	10.04.2019
6	Editing emulator settings	3	10.04.2019
7	Applying Themes via code manifest file	3	11.04.2019
8	Maps, Location based services	3	11.04.2019
9	GPS, Location based services	3	12.04.2019
10	Network connectivity services	3	12.04.2019
11	Layouts and drawable resources	3	13.04.2019
12	Activities and activity lifecycle	2	13.04.2019
13	Exam	1	13.04.2019
Total Hours (Excluding Exam)		36	-


VAC Coordinator


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

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


HOD/IT



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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REPORT ON VALUE ADDED COURSE

Title: "Android App Development"

Resource Person:

Mrs. Sankari
Project Manager
Flink Technologies, Chennai

Mrs. Vidhyasri
Project Manager
Flink Technologies,
Chennai

Date of conduct from : 08.04.2019 To: 13.04.2019 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

- To designing and building mobile applications using Android open-source platform
- Developing for Android through its main application development building blocks
- Encourages students to learn by building increasingly more sophisticated and meaningful mobile applications
- Build a Twitter app for Android, but there are other choices depending on participants' interests
- Combination of lecture and laboratory course which will help the student understand the philosophy of developing for Android

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/IT


Principal


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

Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.



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


Resource Person Detail	<ol style="list-style-type: none">1. Mr.M.Senthilkumar Managing Director, Mecello Tech, Chennai2. 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


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 Main Road (NH-45B), Manikandam, Trichy-12.
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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. Kalavani

VAC Coordinator

Yang
HoD/S&H



10
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 Main Road (NH-45B), Manikandam, Trichy-12.
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Report on Value Added Course			
Title:	" An advance approach to web designing "		
Resource Person:	Mr. M. Senthilkumar Managing Director, Mecello Tech, Chennai	Mr. S. Aravindh Team Leader, Mecello Tech, Chennai	
Date of conduct from :	11.03.2019	To: 15.03.2019	Duration: 30 Hours
Organize Department:	SCIENCE AND HUMANITIES		
Participant Year:	1	No. of Students Registered :	123
Venue:	AUDITORIUM		
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to			
1. Create an Information Architecture document for a web site. 2. Construct a web site that conforms to the web standards of today and includes e-commerce and web marketing 3. Publish the website to a remote server using FTP. 4. Perform regular web site maintenance.			
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)			
T. Kalairavi VAC Coordinator	 HoD/S&H	 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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Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
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DEPARTMENT OF MANAGEMENT STUDIES

Academic Year – 2018-19 Even Semester

Ref: IGCE/MBA/2018-19/VAC/10

05.12.2018

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

B. Theerth
HOD/MBA

[Signature]
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

[Signature]
PRINCIPAL

Cc:

- Principal Office
- HoD/ MBA
- II - Year MBA Students
- Notice Board

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



Indra Ganesan

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Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
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Value Added Course on "Managerial Accounting Using Tally"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	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	3	18.12.2018
4	Opening Tally and creating a company	3	18.12.2018
5	Gateway of tally	3	19.12.2018
6	Creating, Altering and 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	21.12.2018
10	TDS (Tax Deducted at source)	3	21.12.2018
11	Exam		21.12.2018
Total Hours		30	

B. J. Coor
HOD/MBA


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Principal

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Manikandam, Trichy-620 012.


PRINCIPAL



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Report on Value Added Course

Title: **Managerial Accounting Using Tally**

Resource Person: **Mr. Sudharsan / MD**
Trytax Professionals
Trichy

Date of conduct from : **17.12.2018** To: **21.12.2018** Duration: **30 Hours**

Organized Department : **MANAGEMENT STUDIES**

Participant Year: **II year MBA** No. of Students Registered : **61**

Venue: **MBA – Seminar Hall & Computer Lab**

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

- Ascertain profit or loss during a specified period
- Show financial condition of the business on a particular date and to have the control over the firm's property.
- Exchange of money or money's worth as goods and service easily can be calculated.
- Maintaining more than one company's account in the same computer.
- All accounting transactions are linked to ledger account

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/MBA


Principal


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

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