
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

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Academic Year	Semester	Name of the Department	Number of Value Added/ Certificate Programs Offered	Name of Addon/Certificate Programs Offered	No of Students Enrolled	Page number
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		MBA	1	Value proposition in engineering Startups-Business model for success	74	6-8
		S&H	1	Water quality Testing & pollution analysis	125	9-11
		ECE	1	Face recognition system using machine learning	23	12-14
	EVEN	CSE	1	IT Service management and business value : Strategies for optimizing service delivery	94	15-17
		MBA	1	Impact of industry 4.0 on engineering product life cycle management	77	18-20
		S&H	1	Design & Testing of biodegradable plastics in chemistry	125	21-23
		ECE	1	Design of low cost solar inverter for household use	23	24-26
Total Certificate Courses offered in the Academic year 2022-2023			8	Total No. of Students Enrolled in the Certificate Program	635	

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CIRCULAR

Date: 19.08.23

In order to bridge the curricular gap between the Academic Syllabus and Industry requirements, Department of Computer Science Engineering and IQAC of our Institution in association with PSR Info Tech is organizing a Value Added Course (VAC) for the students of II, III and IV year of CSE on the title "AI for Business Process Automation" from 21.08.2023 to 26.08.2023. At the end of the VAC, course completion certificates will be issued to the eligible participants as per the following norms.

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

Resource Person Details	Ms.M.Anupriya, Web site Designer, PSR Info Tech Coimbatore-641011.	Mr.P.Srinivasan, Manager, PSR Info Tech Coimbatore-641011.
Venue	Lecture hall of II&III year CSE	


HeD/CSE


PRINCIPAL

Copy to:

1. Chairman & Secretary for information
2. Principal office
3. IQAC Co-Ordinator
4. Class Incharges-II, III & IV-Year CSE
5. II, III & IV-Year CSE Students
6. CSE Notice Board
7. Department File




Dr. M. VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Ref:SCE / CSE /Students / VAC / 2023 – 2024 / ODD

21.08.2023

SYLLABUS-VALUEADDED COURSE

“AI for Business Process Automation”

From 21.08.2023 to 26.08.2023(6days)

Duration:36 Hours


Academic Year:2023 -2024/ODD

S.No.	Topics Covered	Duration (In Hours)	Date
1	Introduction to Business Process Automation (BPA) and AI	3	21.08.2023
2	Foundations of AI Technologies for Business Process Automation	3	21.08.2023
3	AI-Driven Process Optimization	3	22.08.2023
4	Building AI Models for Business Process Automation	3	22.08.2023
5	AI Integration with Existing Business Systems	3	23.08.2023
6	Implementing AI in Business Process Automation	3	23.08.2023
7	Monitoring and Optimizing AI-Based Automation	3	24.08.2023
8	Cloud and AI-Based Automation Platforms	3	24.08.2023
9	Challenges and Future of AI in Business Process Automation.	3	25.08.2023
10	Capstone Project: Implementing AI for BPA	3	25.08.2023
11	Continuous Improvement and Model Retraining	3	26.08.2023
12	Real-World Applications of AI for Business Process Automation	3	26.08.2023
Total Hours		36	-

After successful completion of 36 Hours VAC, the assessment test for the VAC titled “AI for Business Process Automation” will be conducted on 26.08.2023.


 VAC Coordinator


Dr.M.VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
 Vijayamangalam - 638 056, Tirupur (Dt).


 MOD/CSE

Report on Value Added Course

Title:	AI for Business Process Automation				
Resource Person:	Ms.M.Anupriya, Web site Designer, PSR Info Tech Coimbatore-641011.		Mr.P.Srinivasan, Manager, PSR Info Tech Coimbatore-641011.		
Date of conduct from:	21.08.2023	To:	26.08.2023	Duration:	36 Hours
Organized by:	COMPUTER SCIENCE ENGINEERING and IQAC in association with PSR Info Tech				
Academic Year:	2023 – 2024			Semester:	ODD
Participant Year:	II,III,IV Year CSE,AI&DS		No.of Students Participated:	95	
Venue:	Lecture hall of II &III year CSE,AI&DS				

Outcome of Value Added Course(VAC)

At the end of the Course, Students can be able to

- Ability to analyse and map business processes for automation, identifying areas for improvement.
- Skills in designing AI-driven solutions for automating business processes.
- Hands-on experience with AI tools like RPA (UiPath, Automation Anywhere), ML libraries (TensorFlow, Scikit-learn), and NLP APIs.
- Ability to optimize business processes and evaluate the impact of automation on business efficiency.
- Understanding of the ethical implications of AI in business automation and how to address them.
- Experience managing AI-driven automation projects and communicating their value to stakeholders..

Assessment Process

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

No.of students successfully completed the VAC course is 95 Students based on the above assessment process.


 VAC Co-ordinator


 HOD/CSE


 Principal

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

CIRCULAR

In order to bridge the curricular gap between the Academic Syllabus and Industry requirements, Department of Master of Business Administration and IQAC of our Institution in association with Centrio Group of Companies is organizing a Value Added Course (VAC) for the students of I, III year of MECH on the title “Impact of Industry 4.0 on Engineering Product Life Cycle Management” from 09.10.2023 to 14.10.2023. At the end of the VAC, course completion certificates will be issued to the eligible participants as per the following norms.

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

Resource Person Details	Mr.J.Harikaran, Director, Centrio Group of Companies, Madurai-625016	Mr.R.Kamalakannan, Manager, Centrio Group of Companies, Madurai-625016
Venue	Lecture hall of I & II year MBA	

M. Muthup
HoD/MBA

[Signature]
PRINCIPAL

Copy to:

1. Chairman & Secretary for information
2. Principal office
3. IQAC Co-Ordinator
4. Class Incharges-I&II Year MBA
5. I & II Year MBA Students
6. MBANotice Board
7. Department File

[Signature]
Dr.M.VIJAYAKUMAR ME., Ph.D.
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

Ref: SCE / MBA /Students / VAC / 2023 – 2024/ ODD

09.10.2023

SYLLABUS – VALUE ADDED COURSE

“Impact of Industry 4.0 on Engineering Product Life Cycle Management”

From 09.10.2023 to 14.10.2023(6days)

Duration: 36 Hours

Academic Year: 2023 -2024/ODD

S.No.	Topics Covered	Duration (In Hours)	Date
1	Introduction to Industry 4.0 and EPLM	3	09.10.2023
2	Digitalization and Data Management in EPLM	3	09.10.2023
3	Internet of Things (IoT) in EPLM	3	10.10.2023
4	Artificial Intelligence and Machine Learning in EPLM	3	10.10.2023
5	Additive Manufacturing (3D Printing) and EPLM	3	11.10.2023
6	Cyber-Physical Systems (CPS) in EPLM	3	11.10.2023
7	Smart Factories and Industry 4.0-enabled Manufacturing	3	12.10.2023
8	Virtual Reality (VR) and Augmented Reality (AR) in EPLM	3	12.10.2023
9	Impact on Supply Chain Management and Logistics	3	13.10.2023
10	Sustainability and Circular Economy in EPLM	3	13.10.2023
11	Challenges and Future Trends of Industry 4.0 in EPLM	3	14.10.2023
12	Case Studies and Practical Applications	3	14.10.2023
Total Hours		36	-

After successful completion of 36 Hours VAC, the assessment test for the VAC titled “Impact of Industry 4.0 on Engineering Product Life Cycle Management” will be conducted on 14.10.2023.


 VAC Coordinator


Dr.M.VIJAYAKUMAR ME., Ph.D./MBA
 PRINCIPAL



SASURIE COLLEGE OF ENGINEERING,
 Vijayamangalam - 638 056, Tirupur (Dt).

Report on Value Added Course

Title:	Impact of Industry 4.0 on Engineering Product Life Cycle Management				
Resource Person:	Mr.J.Harikaran, Director, Centrio Group of Companies, Madurai-625016		Mr.R.Kamalakannan, Manager, Centrio Group of Companies, Madurai-625016		
Date of conduct from:	09.10.2023	To:	14.10.2023	Duration:	36 Hours
Organized by:	MASTER OF BUSINESS ADMINISTRATION and IQAC in association with Centrio Group of Companies				
Academic Year:	2023 – 2024		Semester:	ODD	
Participant Year:	I,II YearMBA		No.of Students Participated:	77	
Venue:	Lecture hall of I &II Year MBA				

Out come of Value Added Course(VAC)

At the end of the Course,Students can be able to

- Explain the key principles of Industry 4.0. including IoT (Internet of Things), AI (Artificial Intelligence), Big Data, Cyber-Physical Systems, and Smart Manufacturing.
- Understand the traditional processes involved in each phase of the product life cycle.
- Analyse how Industry 4.0 technologies impact and enhance each stage of the product life cycle.
- Discuss how data-driven insights, automation, and digital twins contribute to optimized design, manufacturing, and maintenance.
- Understand how digital threads and digital twins enable real-time monitoring, rapid prototyping, and design adjustments.

Assessment Process

- Students, who are securing more than 70% on total score in the VAC test and secured more than 75%inVAC attendance is eligible to receive the course completion certificate for the VAC attended
- TotalScore=(0.5*Attendance inVAC out of100 percentage+0.5 *Tes mark in VAC out of 100marks)

No.of students successfully completed the VAC course is 77 Students based on the above assessment process.


VAC Co-ordinator


HoD/ MBA


Principal


Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).



DEPARTMENT OF SCIENCE & HUMANITIES

CIRCULAR

In order to bridge the curricular gap between the Academic Syllabus and Industry requirements, Department of Science & Humanities and IQAC of our Institution in association with Southern Scientific Instruments is organizing a **Value Added Course (VAC)** for the students of I year of S&H on the title **“Water Quality Testing and Pollution Analysis”** from **16.10.2023 to 21.10.2023**. At the end of the VAC, course completion certificates will be issued to the eligible participants as per the following norms.

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

ResourcePerson Details	Mr.P.Manikandan, Training Centre Incharge, Southern Scientific Instruments, Chennai-600077	Mrs.K.Lakshmipriya Training Centre Incharge, Southern Scientific Instruments, Chennai-600077.
Venue	Lecture hall of I year S&H	


HoD/S&H


PRINCIPAL

Copy to:

1. Chairman & Secretary for information
2. Principal office
3. IQAC Co-Ordinator
4. Class Incharges-I year S&H
5. I year S&H Students
6. S&H Notice Board
7. Department File


Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF SCIENCE & HUMANITIES

Ref:SCE / S&H /Students / VAC / 2023 – 2024 / ODD

16.10.2023

SYLLABUS - VALUE ADDED COURSE

“Water Quality Testing and Pollution Analysis”

From 16.10.2023 to 21.10.2023(6days)

Duration: 36 Hours

Academic Year: 2023 -2024/ODD

S.No.	Topics Covered	Duration (In Hours)	Date
1	Introduction to Water Quality and Pollution	3	16.10.2023
2	Key Parameters in Water Quality Testing	3	16.10.2023
3	Laboratory Techniques for Water Quality Testing	3	17.10.2023
4	Water Sampling and Preservation Techniques	3	17.10.2023
5	Analytical Techniques for Water Quality Testing	3	18.10.2023
6	Pollution Analysis and Toxicity Testing	3	18.10.2023
7	Water Quality Analysis and Data Interpretation	3	19.10.2023
8	Regulatory Standards and Guidelines	3	19.10.2023
9	Water Quality Standards	3	20.10.2023
10	Water Quality Monitoring and Report	3	20.10.2023
11	Environmental and Health Risk Assessment	3	21.10.2023
12	Practical Application	3	21.10.2023
Total Hours		36	-

After successful completion of 36 Hours VAC, the assessment test for the VAC titled “Water Quality Testing and Pollution Analysis” will be conducted on 21.10.2023.

M. Ref
 VAC Coordinator

me
Dr.M.VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL
SASURIE COLLEGE OF ENGINEERING.
 Vijayamangalam - 638 056, Tirupur (Dt).

M. G
 HoD/S&H

Report on Value Added Course

Title:	Water Quality Testing and Pollution Analysis				
Resource Person:	Mr.P.Manikandan, Training Centre Incharge, Southern Scientific Instruments, Chennai-600077		Mrs.K.Lakshmipriya Training Centre Incharge, Southern Scientific Instruments, Chennai-600077.		
Date of conduct from:	16.10.2023	To:	21.10.2023	Duration:	36Hours
Organized by:	S&H and IQAC in association with Southern Scientific Instruments				
Academic Year:	2023 – 2024			Semester:	ODD
Participant Year:	I Year S&H		No.of Students Participated:	125	
Venue:	Lecture hall of I Year S&H				

Outcome of Value Added Course(VAC)

At the end of the Course, Students can be able to

- Recognize the significance of water quality in maintaining public health, ecosystems, and the environment.
- Identify the main pollutants affecting water sources and their sources (e.g., industrial waste, agricultural runoff, sewage).
- Perform basic water quality tests for parameters such as pH, dissolved oxygen (DO), biochemical oxygen demand (BOD), chemical oxygen demand (COD), turbidity, and total dissolved solids (TDS).
- Use testing equipment such as DO meters, turbidity meters, and spectroph.
- Understand how pollutants affect aquatic ecosystems, human health, and water treatment processes.
- Analyze water quality test results and interpret the data in terms of safety for human consumption, ecosystem health, and environmental sustainability.

Assessment Process

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

No. of students successfully completed the VAC course is 125 Students based on the above assessment process.

M. Raj
VAC Co-ordinator

H. G. R.
HoD/S&H

Me
Principal

Me
Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL

DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

In order to bridge the curricular gap between the Academic Syllabus and Industry requirements, Department of Mechanical Engineering and IQAC of our Institution in association with Caliber Embedded Technologies is organizing a Value Added Course (VAC) for the students of II, III and IV year of MECH,CIVIL,EEE,ECE on the title "Face Recognition System Using Machine Learning" from 28.08.2023 to 02.09.2023. At the end of the VAC, course completion certificates will be issued to the eligible participants as per the following norms.

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

Resource Person Details	Mr.R.Gopal, Manager, Caliber Embedded Technologies, Salem-636009	Mr.M.ParthiBan, CEO, Caliber Embedded Technologies, Salem-636009.
Venue	Lecture hall of II&III Year MECH,CIVIL,EEE,ECE	


HoD/MECH


PRINCIPAL

Copy to:

1. Chairman & Secretary for information
2. Principa loffice
3. IQAC Co-Ordinator
4. Class Incharges-II, III & IV- Year MECH,CIVIL,EEE,ECE
5. II, III & IV-Year MECH,CIVIL,EEE,ECE Students
6. MECH,CIVIL,EEE,ECE Notice Board
7. Department File


Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 633 055, Tirupur (Dt).

DEPARTMENT OF MECHANICAL ENGINEERING

Ref:SCE / MECH /Students / VAC / 2023 – 2024 / ODD

28.08.2023

SYLLABUS – VALUE ADDED COURSE

“Face Recognition System Using Machine Learning”

From 28.08.2023 to 02.09.2023 (6days)

Duration: 36 Hours

Academic Year: 2023 -2024/ODD

S.No.	Topics Covered	Duration (In Hours)	Date
1	Introduction to Face Recognition and Machine Learning	3	28.08.2023
2	Image Processing Fundamentals	3	28.08.2023
3	Feature Extraction for Face Recognition	3	29.08.2023
4	Machine Learning Models for Face Recognition	3	29.08.2023
5	Advanced Topics in Face Recognition	3	30.08.2023
6	Ethical Issues in Face Recognition	3	30.08.2023
7	Face Detection and Tracking	3	31.08.2023
8	Face Recognition with Dataset	3	31.08.2023
9	Practical Implementation and Project Work	3	01.09.2023
10	Tools and Libraries	3	01.09.2023
11	Evaluation and Future Trends	3	02.09.2023
12	Real-Time Face Recognition for Security	3	02.09.2023
Total Hours		36	-

After successful completion of 36 Hours VAC, the assessment test for the VAC titled “Face Recognition System Using Machine Learning” will be conducted on 02.09.2023.


 VAC Coordinator


Dr.M.VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL


 HoD/MECH

Report on Value Added Course

Title:	Face Recognition System Using Machine Learning				
Resource Person:	Mr.R.Gopal, Manager, Caliber Embedded Technologies, Salem-636009		Mr.M.ParthiBan, CEO, Caliber Embedded Technologies, Salem-636009.		
Date of conduct from:	28.08.2023	To:	02.09.2023	Duration:	36 Hours
Organized by:	MECHANICAL ENGINEERING and IQAC in association with Caliber Embedded Technologies				
Academic Year:	2023 – 2024		Semester:	ODD	
Participant Year:	II,III,IV Year MECH,CIVIL,ECE,EEE		No.of Students Participated:	23	
Venue:	Lecture hall of II & III year MECH,CIVIL,ECE,EEE				

Outcome of Value Added Course (VAC)

- Design, implement, and optimize a face recognition system from scratch, using machine learning techniques and deep learning models.
- Process and analyze facial images for both detection and recognition tasks, handling variations in facial features, lighting, and pose.
- Evaluate the effectiveness of different face recognition algorithms and select the best approach for a given problem.
- Deploy a face recognition system in real-time applications, ensuring performance, efficiency, and scalability.
- Address ethical concerns and privacy issues related to the use of face recognition systems, and apply mitigation strategies to reduce bias and increase fairness.

Assessment Process

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

No. of students successfully completed the VAC course is 23 Students based on the above assessment process.


 VAC Co-ordinator


 HoD/MECH


 Principal


Dr. M. VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CIRCULAR

In order to bridge the curricular gap between the Academic Syllabus and Industry requirements, Department of Computer Science Engineering and IQAC of our Institution in association with C CUBE Technologies is organizing a Value Added Course(VAC) for the students of II, III and IV year of CSE on the title "IT Service Management and Business value: Strategies for Optimizing Service Delivery" from 12.02.2024 to 16.02.2024. At the end of the VAC, course completion certificates will be issued to the eligible participants as per the following norms.

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

Resource Person Details	Mrs.Sugithra, Fullstack developer, C CUBE Technologies, Erode-638001	Mr.E.Anndhakumar, CEO, C CUBE Technologies, Erode-638001
Venue	Lecture hall of II&III year CSE	


HoD/CSE


PRINCIPAL

Copy to:

1. Chairman & Secretary for information
2. Principal office
3. IQAC Co-Ordinator
4. Class Incharges-II, III & IV-Year CSE
5. II, III & IV-Year CSE Students
6. CSE Notice Board
7. Department File


Dr.M.VIJAYAKUMAR ME., Ph.D.
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 630 050, Tirupur (Dt).

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Ref: SCE / CSE /Students / VAC / 2023 – 2024 / EVEN

12.02.2024

SYLLABUS-VALUEADDED COURSE

“IT Service Management and Business value: Strategies for Optimizing Service Delivery”

From 12.02.2024 to 16.02.2024(5days)

Duration: 30 Hours

Academic Year:2023 -2024/EVEN

S.No.	Topics Covered	Duration (In Hours)	Date
1	Introduction to IT Service Management (ITSM)	3	12.02.2024
2	ITSM Frameworks and Standards	3	12.02.2024
3	Aligning IT Services with Business Goals	3	13.02.2024
4	Key ITSM Processes and Practices	3	13.02.2024
5	Strategies for Optimizing Service Delivery	3	14.02.2024
6	Measuring and Enhancing IT Service Performance	3	14.02.2024
7	Digital Transformation and ITSM	3	15.02.2024
8	Advanced Topics in IT Service Delivery	3	15.02.2024
9	Real-World Applications	3	16.02.2024
10	Optimizing IT Service Delivery	3	16.02.2024
Total Hours		30	-

After successful completion of 30 Hours VAC, the assessment test for the VAC titled “IT Service Management and Business value: Strategies for Optimizing Service Delivery” will be conducted on 16.02.2024.


 VAC Coordinator


Dr.M.VIJAYAKUMAR ME., Ph.D.
 PRINCIPAL
SASURIE COLLEGE OF ENGINEERING.
 Vijayamangalam - 638 056, Tirupur (Dt).


 HoD/CSE

Report on Value Added Course

Title:	IT Service Management and Business value: Strategies for Optimizing Service Delivery				
Resource Person:	Mrs.Sugithra, Fullstack developer, C CUBE Technologies, Erode-638001		Mr.E.Anndhakumar, CEO, C CUBE Technologies, Erode-638001		
Date of conduct from:	12.02.2024	To:	16.02.2024	Duration:	30 Hours
Organized by:	COMPUTER SCIENCE ENGINEERING and IQAC in association with C CUBE Technologies				
Academic Year:	2023 – 2024		Semester:	EVEN	
Participant Year:	II,III,IV Year CSE,AI&DS		No.of Students Participated:	94	
Venue:	Lecture hall of II &III year CSE,AI&DS				

Outcome of Value Added Course(VAC)

At the end of the Course, Students can be able to

- Identify the different phases of the ITIL service lifecycle: Service Strategy, Service Design, Service Transition, Service Operation, and Continual Service Improvement.
- Understand and apply ITIL best practices to manage IT services effectively.
- Analyze business requirements and translate them into IT service requirements, ensuring that IT services provide measurable value to the business.
- Apply performance management techniques to ensure services are delivered within agreed-upon service levels (SLAs).
- Understand the financial aspects of ITSM, including cost modeling, budgeting, and resource allocation for IT services.

Assessment Process

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

No.of students successfully completed the VAC course is 94 Students based on the above assessment process.


VAC Co-ordinator


HoD/CSE


Principal



DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

CIRCULAR

In order to bridge the curricular gap between the Academic Syllabus and Industry requirements, Department of Master of Business Administration and IQAC of our Institution in association with Sakthi Cups is organizing a Value Added Course(VAC) for the students of I, II year of MBA on the title “Value Proposition in Engineering Startups – Business Model for Success” from 26.02.2024 to 02.03.2024. At the end of the VAC, course completion certificates will be issued to the eligible participants as per the following norms.

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

Resource Person Details	Mr.S.Madhan, Incharge, Sakthi Cups Erode-638001	Mr.S.Prakash, Manager, Sakthi Cups Erode-638001.
Venue	Lecture hall of I & II year MBA	

M. Madhan
HoD/MBA

[Signature]
PRINCIPAL

Copy to:

1. Chair man&Secretary for information
2. Principal office
3. IQAC Co-Ordinator
4. Class Incharges-I, II Year MBA
5. I, II-Year MBA Students
6. MBA Notice Board
7. Department File



[Signature]
Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

Ref: SCE / MBA /Students / VAC / 2023 – 2024 / EVEN

26.02.2024

SYLLABUS – VALUE ADDED COURSE

“Value Proposition in Engineering Startups – Business Model for Success”

From 26.02.2024 to 02.03.2024(6days)

Duration: 36 Hours

Academic Year: 2023 -2024/EVEN

S.No.	Topics Covered	Duration (In Hours)	Date
1	Introduction to Value Proposition and Business Models	3	26.02.2024
2	The Role of Value Proposition in Startups	3	26.02.2024
3	Market Research and Customer Discovery	3	27.02.2024
4	Building Customer Personas	3	27.02.2024
5	Developing a Unique Value Proposition	3	28.02.2024
6	The Business Model Canvas	3	28.02.2024
7	Lean Startup and Iterative Development	3	29.02.2024
8	Scaling and Sustainability in Engineering Startups	3	29.02.2024
9	Case Studies of Successful Engineering Startups	3	01.03.2024
10	3D Printing Startups	3	01.03.2024
11	Feedback and Iteration	3	02.03.2024
12	Ethical and Social Implications	3	02.03.2024
Total Hours		36	

After successful completion of 36 Hours VAC, the assessment test for the VAC titled “Value Proposition in Engineering Startups – Business Model for Success” will be conducted on 02.03.2024.


VAC Coordinator


HoD/MBA
Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

Report on Value Added Course

Title:	Value Proposition in Engineering Startups – Business Model for Success				
Resource Person:	Mr.S.Madhan, Incharge, Sakthi Cups Erode-638001		Mr.S.Prakash, Manager, Sakthi Cups Erode-638001.		
Date of conduct from:	26.02.2024	To:	02.03.2024	Duration:	36Hours
Organized by:	MASTER OF BUSINESS ADMINISTRATION and IQAC in association with Sakthi Cups				
Academic Year:	2023 – 2024		Semester:	EVEN	
Participant Year:	I,II Year MBA		No.of Students Participated:	74	
Venue:	Lecture hall of I &II year MBA				

Outcome of Value Added Course(VAC)

- Identify key elements that make up a strong value proposition (e.g., customer pain points, product benefits, unique selling points).
- Apply frameworks such as the Value Proposition Canvas to align product offerings with customer desires and expectations.
- Create and communicate a clear value proposition that effectively addresses customer problems, offers tangible benefits, and differentiates the startup from competitors.
- Identify and evaluate the components of a successful business model, including customer segments, value proposition, channels, customer relationships, revenue streams, key resources, key activities, key partnerships, and cost structure.
- Develop a business model that is scalable, flexible, and capable of adapting to changing market dynamics in the engineering industry.

Assessment Process

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

No.of students successfully completed the VAC course is 74 Students based on the above assessment process.


VAC Co-ordinator


HoD/MBA


Principal


Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL


DEPARTMENT OF SCIENCE & HUMANITIES

CIRCULAR

In order to bridge the curricular gap between the Academic Syllabus and Industry requirements, Department of Science & Humanities and IQAC of our Institution in association with ETS Academy is organizing a Value Added Course (VAC) for the students of I year of S&H on the title “Design & Testing Of Bio Degradable Plastics In Chemistry” from 11.03.2024 to 16.03.2024. At the end of the VAC, course completion certificates will be issued to the eligible participants as per the following norms.

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

Resource Person Details	Mr.M.Kalaiyazhagan, Training Incharge, ETS Academy, Erode-638001	Mr.M.Manikandan, Manager, ETS Academy, Erode-638001
Venue	Lecture hall of I year S&H	


HoD/S&H


PRINCIPAL

Copy to:

1. Chairman & Secretary for information
2. Principal office
3. IQAC Co-Ordinator
4. Class Incharges-I year S&H
5. I year S&H Students
6. S&H Notice Board
7. Department File


Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 055, Tirupur (Dt)

DEPARTMENT OF SCIENCE & HUMANITIES

Ref:SCE / S&H/Students / VAC / 2023 – 2024 / EVEN

11.03.2024

SYLLABUS-VALUEADDED COURSE

“Design & Testing of Bio Degradable Plastics in Chemistry”

From 11.03.2024 to 16.03.2024(6days)

Duration: 36 Hours

Academic Year: 2023 -2024/EVEN

S.No.	Topics Covered	Duration (In Hours)	Date
1	Introduction to Biodegradable Plastics	3	11.03.2024
2	Chemistry of Biodegradable Plastics	3	11.03.2024
3	Raw Materials and Monomers for Biodegradable Plastics	3	12.03.2024
4	Materials Science of Biodegradable Plastics	3	12.03.2024
5	Biodegradable Plastic Production and Processing	3	13.03.2024
6	Testing Methods for Biodegradable Plastics	3	13.03.2024
7	Properties of Biodegradable Plastics	3	14.03.2024
8	Environmental Impact and Sustainability	3	14.03.2024
9	Innovations in Biodegradable Plastics	3	15.03.2024
10	Synthesis and Fabrication of Biodegradable Plastics	3	15.03.2024
11	Degradation Testing and Analysis	3	16.03.2024
12	Applications of Biodegradable Plastics	3	16.03.2024
Total Hours		36	

After successful completion of 36 Hours VAC, the assessment test for the VAC titled “Design & Testing Of Bio Degradable Plastics in Chemistry” will be conducted on 16.03.2024.


 VAC Coordinator




Dr.M.VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
 Vijayamangalam - 638 056, Tirupur (Dt).


 HoD/S&H

Report on Value Added Course

Title:	Design & Testing of Bio Degradable Plastics in Chemistry				
Resource Person:	Mr.M.Kalaiyazhagan, Training Incharge, ETS Academy, Erode-638001		Mr.M.Manikandan, Manager, ETS Academy, Erode-638001		
Date of conduct from:	11.03.2024	To:	16.03.2024	Duration:	36 Hours
Organized by:	S&H and IQAC in association with Southern Scientific Instruments				
Academic Year:	2023 – 2024		Semester:	EVEN	
Participant Year:	I Year S&H		No.of Students Participated:	125	
Venue:	Lecture hall of I Year S&H				

Outcome of Value Added Course (VAC)

At the end of the Course, Students can be able to

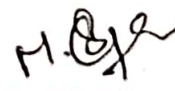
- Recognize the significance of water quality in maintaining public health, ecosystems, and the environment.
- Identify the main pollutants affecting water sources and their sources (e.g., industrial waste, agricultural runoff, sewage).
- Perform basic water quality tests for parameters such as pH, dissolved oxygen (DO), biochemical oxygen demand (BOD), chemical oxygen demand (COD), turbidity, and total dissolved solids (TDS).
- Use testing equipment such as DO meters, turbidity meters, and spectroph.
- Understand how pollutants affect aquatic ecosystems, human health, and water treatment processes.
- Analyze water quality test results and interpret the data in terms of safety for human consumption, ecosystem health, and environmental sustainability.

Assessment Process

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

No. of students successfully completed the VAC course is **125 Students** based on the above assessment process.


 VAC Co-ordinator


 HoD/S&H


 Principal


DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

In order to bridge the curricular gap between the Academic Syllabus and Industry requirements, Department of Mechanical Engineering and IQAC of our Institution in association with MAS Data Technologies Ltd, is organizing a Value Added Course(VAC) for the students of II, III and IV year of MECH,CIVIL,EEE,ECE on the title "Design of Low-Cost Solar Inverter for Household Use" from 05.02.2024 to 10.02.2024. At the end of the VAC, course completion certificates will be issued to the eligible participants as per the following norms.

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

ResourcePerson Details	Mr.K.Jagadeesh, Manager, MAS Data Technologies, Coimbatore-641004	Mr.D.Mathesh, CEO, MAS Data Technologies, Coimbatore-641004.
Venue	Lecture hall of II&III Year MECH,CIVIL,EEE,ECE	


HoD/MECH


PRINCIPAL

Copy to:

1. Chairman & Secretary for information
2. Principal office
3. IQAC Co-Ordinator
4. Class Incharges-II, III & IV- Year MECH,CIVIL,EEE,ECE
5. II, III & IV- Year MECH,CIVIL,EEE,ECE Students
6. MECH,CIVIL,EEE,ECE Notice Board
7. Department File


Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
 **SASURIE COLLEGE OF ENGINEERING,**
Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF MECHANICAL ENGINEERING

Ref: SCE / MECH /Students / VAC / 2023 – 2024 / EVEN

05.02.2024

SYLLABUS – VALUE ADDED COURSE

“Design of Low-cost solar Inverter for Household Use”

From 05.02.2024 to 10.02.2024 (6days)

Duration: 36 Hours

Academic Year: 2023 -2024/EVEN


S.No.	Topics Covered	Duration (In Hours)	Date
1	Introduction to Solar Energy and Inverter technology	4	05.02.2024
2	Design Principles for Low-Cost Solar Inverters	3	05.02.2024
3	Power Conversion and Control	3	06.02.2024
4	Design and Simulation of Inverter Circuits	3	06.02.2024
5	Design of the Power Stage	3	07.02.2024
6	Integration with Solar PV Systems	3	07.02.2024
7	Design Power Factor Correction (PFC)	3	08.02.2024
8	Protection Mechanisms	3	08.02.2024
9	Implementation of Low-Cost Inverters	3	09.02.2024
10	System Integration and Final Design	3	09.02.2024
11	Market and Environmental Considerations	3	10.02.2024
12	Future Trends and Innovations in Solar Inverter Technology	3	10.02.2024
Total Hours		36	-

After successful completion of 36 Hours VAC, the assessment test for the VAC titled “Design of Low-cost solar Inverter for Household Use” will be conducted on 10.02.2024.


VAC Coordinator




Dr. M. VIJAYAKUMAR ME., Ph.D.
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).


HoD/MECH

Report on Value Added Course

Title:	Design of Low-cost solar Inverter for Household Use				
Resource Person:	Mr.K.Jagadeesh, Manager, MAS Data Technologies, Coimbatore-641004		Mr.D.Mathesh, CEO, MAS Data Technologies, Coimbatore-641004.		
Date of conduct from:	05.02.2024	To:	10.02.2024	Duration:	36 Hours
Organized by:	MECHANICAL ENGINEERING and IQAC in association with MAS Data Technologies				
Academic Year:	2023 – 2024			Semester:	EVEN
Participant Year:	II,III,IV Year MECH,CIVIL,ECE,EEE		No.of Students Participated:	23	
Venue:	Lecture hall of II & III year MECH,CIVIL,ECE,EEE				

Outcome of Value Added Course(VAC)

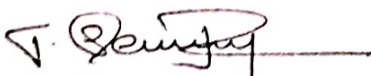
At the end of the Course, Students can be able to

- Ability to design a solar inverter suitable for residential use, focusing on cost and efficiency.
- Knowledge of key power components, such as MOSFETs, IGBTs, and transformers, used in solar inverters.
- Experience in implementing PWM control and MPPT algorithms for optimal energy conversion.
- Proficiency in using simulation tools to model and test inverter designs.
- Ability to troubleshoot and improve inverter designs for maximum cost-effectiveness and efficiency.
- Skills in preparing technical documentation and presenting complex engineering ideas clearly.

Assessment Process

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

No. of students successfully completed the VAC course is 23 Students based on the above assessment process.


VAC Co-ordinator


HoD/MECH


Principal