SASURIE
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Vijayamangalam, Tiruppur.

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

VAC Title:	Impact of industry 4.0 on engineering procduct life cycle management					
Resource Person:	Mr.J.Hariharan, incharge, Centrio group of companies, Madurai-625016.			Mr.R.Kamalakannan, Manager, Centrio group of companies, Madurai-625016.		
Dat e of conduct from:	09.10.2023		To:	14.10.2023	Duration:	36 Hours
Organized Department:	DEPARTMENT OF MBA & IQAC in association with Centrio group of companies					
Participant Year:	I,II Year MBA	Semester:	ODD	No. of Students Participated:		77
Venue:	Lecture hall of I & II year MBA					

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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.

ResourcePerson 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	

HoD/MBA

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

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

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PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
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STUDENTS PARTICIPATION LIST – 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	Register Number	Name of the students	Branch/Year
1.	732422631001	AMIRTHA K	II/MBA
2.	732422631002	ANNALAKSHMI N	II/MBA
3.	732422631003	ANU A	II/MBA
4.	732422631004	BALAKUMAR U	II/MBA
5.	732422631005	BHARATHIVELAN B	II/MBA
6.	732422631007	CHANDRUPRIYAN T	II/MBA
7.	732422631009	DEENA DAYALAN J	II/MBA
8.	732422631010	DHANUSH S	II/MBA
9.	732422631012	DHARANI PRIYA D	II/MBA
10.	732422631013	DHINAKARAN T	II/MBA
11.	732422631016	GNANAMBIKA A	II/MBA
12.	732422631017	GANESHKUMAR P	II/MBA
13.	732422631019	GOKULKRISHNAN T	II/MBA
14.	732422631020	GOWRI SANKAR K	II/MBA
15.	732422631021	GUNA P	II/MBA
16.	732422631022	HARIHARAN R	II/MBA
17.	732422631023	HARINEE L	II/MBA
18.	732422631024	HARI PRASATH P	II/MBA
19.	732422631026	JAGATHEESWARAN S	II/MBA
20.	732422631027	JEEVA S	II/MBA
21.	732422631029	KAPHINI P S	II/MBA
22.	732422631030	KAVIPRIYA D	II/MBA
23.	732422631032	MENAKADEVI C	II/MBA
24.	732422631033	MUBASHSHIRA A	II/MBA
25.	732422631035	NANDHABALAJI V	II/MBA
26.	732422631036	PRIYADHARSAN K	II/MBA
27.	732422631037	RAJESHKANNAN A	II/MBA

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S.NO	Register No	Name of the students	Branch/Year
28.	732422631039	ROSHINI M	II/MBA
29.	732422631040	RUBI JENIFER M	II/MBA
30.	732422631042	SANJAY B	II/MBA
31.	732422631043	SELVAKUMAR M	II/MBA
32.	732422631044	SELVA SHIKAMANI M	II/MBA
33.	732422631044	SHANMUGAPRIYA M	II/MBA
34.	732422631046	SNEHA S	II/MBA
35.	732422631047	SNEHA S	II/MBA
36.	732422631049	SUBASH M	II/MBA
37.	732422631050	SUGANYA M	II/MBA
38.	732422631051	SUVEDA P	II/MBA
39.	732422631052	VASANTH S	II/MBA
40.	732422631053	VENKADESH N	II/MBA
41.	732422631054	VIGNESH P	II/MBA
42.	732422631055	VIGNESWARAMOORTHY R	II/MBA
43.	732422631056	VIJI S	II/MBA
44.	732422631058	VISHVA K S	II/MBA
45.	732422631059	YOGIRAMSURATHKUMAR M	II/MBA
46.	732423631002	ANUSHREE U S	I/MBA
47.	732423631003	ASIFARIFANA M	I/MBA
48.	732423631004	BALAJI VISWANATH D	I/MBA
49.	732423631005	DAMODHARAN T	I/MBA
50.	732423631006	DEEPIKA T	I/MBA
51.	732423631007	DHARANIPRIYA M	I/MBA
52.	732423631008	GOWTHAM S	I/MBA
53.	732423631010	GUHAN S	I/MBA
54.	732423631010	HARISHKARTHICK AKV	I/MBA
55.	732423631011	JEYA AKSHAYAA J	I/MBA
56.	732423631012	JEYA SUBHIKSHA J	I/MBA
57.	732423631013	KAVYA N	I/MBA
58.	732423631014	KRISHNASAMY K	I/MBA

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59.	732423631015	KUMARAKALAIAZHAGAN K	I/MBA
60.	732423631015	MOHAMMED MUSTHIK J	I/MBA
61.	732423631017	NANDHAKUMARI S	I/MBA
62.	732423631018	NAVEEN KUMAR M	I/MBA
63.	732423631019	NIVEETHA B	I/MBA
64.	732423631020	PRANESH P M	I/MBA
65.	732423631021	RAJA M	I/MBA
66.	732423631022	RAY SHIVA MALLES L	I/MBA
67.	732423631023	SATHYASEELAN	I/MBA
68.	732423631024	SHARMILA T	I/MBA
69.	732423631025	SOWMIYA G	I/MBA
70.	732423631026	SREENAATH B	I/MBA
71.	732423631027	SUMITHRADEVI C	I/MBA
72.	732423631027	VARALAKSHMI S	I/MBA
73.	732423631029	VASANTHI A	I/MBA
74.	732423631030	VASUKI S	I/MBA
75.	732423631031	VIGNESH U	I/MBA
76.	732423631032	VIJAYAKUMAR V	I/MBA
77.	732423631033	VISHNUVARTHAN S	I/MBA

VAC Coordinator

HoD/MBA

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

STUDENTS ATTENDANCE LIST-VALUE ADDED COURSE
"Impact of Industry 4.0 on Engineering

Product Life Cycle Management"

From 09.10.2023 to 14.10.2023 (6days)

Academic Year: 2023-2024/ODD

Duration: 36 Hours

S.No	Reg No.	Name of the Student	Year/Branch	09.10.2023 FN	09.10.2023 AN	10.10.2023 FN	10.10.2023 AN	11.10.2023 FN	11.10.2023 AN	12.10.2023 FN	12.10.2023 AN	13.10.2023 FN	13.10.2023 AN	14.10.2023 FN	14.10.2023 AN	No. of Hours Attended	Signature of the Student
1	732422631001	AMIRTHA K	II/MBA	/	/	/	/	/	/	/	/	/	/	/	/	36	
2	732422631002	ANNALAKSHMI N	II/MBA	/	/	/	/	/	/	/	/	/	a	/	/	33	Annalakshmi
3	732422631003	ANU A	II/MBA	/	/	/	/	a	a	/	/	/	/	/	/	30	Anu A
4	732422631004	BALAKUMAR L	II/MBA	/	a	/	/	/	/	/	/	/	/	/	/	33	
5	732422631005	BHARATHIVELAN B	II/MBA	/	/	/	/	/	/	/	/	a	a	/	/	30	Bharathi
6	732422631007	CHANDRUPRIYAN T	II/MBA	/	/	/	/	/	/	a	a	/	/	/	/	30	
7	732422631009	DEENA DAYALAN J	II/MBA	/	/	/	/	/	/	/	/	/	/	/	a	33	
8	732422631010	DHANUSH S	II/MBA	/	a	/	/	/	/	/	/	/	/	/	/	33	Dhanu
9	732422631012	DHARANI PRIYA D	II/MBA	/	/	/	/	/	/	/	/	/	/	/	/	36	Priya
10	732422631013	DHINAKARAN T	II/MBA		/	/	/	/	a	/	/	/	/	/	/	33	Dhinakar
11	732422631016	GNANAMBIKA A	II/MBA	a	a	/	/	/	/	/	/	/	/	/	/	30	Gnanambika
12	732422631017	GANESHKUMAR P	II/MBA	/	/	/	/	/	/	/	/	/	/	/	/	36	Ganeshku
13	732422631019	GOKULKRISHNAN T	II/MBA	/	/	/	/	/	/	/	/	/	a	/	/	33	Gokul
14	732422631020	GOWRI SANKAR K	II/MBA	/	/	a	a	/	/	/	/	/	/	/	/	30	Gowri

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S.No	RegNo.	Name of the Student	Year/Branch	09.10.2023		10.10.2023		11.10.2023		12.10.2023		13.10.2023		14.10.2023		No. of Hours Attended	Signature of the Student
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
15	732422631021	GUNA P	II/MBA	/	/	/	/	/	/	/	a	/	/	/	/	33	Guna
16	732422631022	HARIHARAN R	II/MBA	/	/	/	/	/	a	/	/	/	/	/	/	33	Hariharan
17	732422631023	HARINEE L	II/MBA	/	/	a	a	/	/	/	/	/	/	/	/	36	Harinee
18	732422631024	HARI PRASATH P	II/MBA	/	/	/	/	/	/	/	/	/	/	/	/	30	Hari
19	732422631026	JAGATHEESWARAN S	II/MBA	/	/	/	/	/	/	/	/	/	/	/	a\	36	Jatheeswa
20	732422631027	JEEVA S	II/MBA	/	/	/	/	/	/	/	/	/	a	/	/	33	Jeeva
21	732422631029	KAPHINI P S	II/MBA	/	/	/	/	/	/	/	/	/	/	/	/	36	KAPHINI d
22	732422631030	KAVIPRIYA D	II/MBA	/	/	/	/	/	/	/	/	/	/	/	/	36	
23	732422631032	MENAKADEVI C	II/MBA	/	/	/	/	/	/	/	/	/	/	/	/	36	
24	732422631033	MUBASHSHIRA A	II/MBA	/	/	/	a	/	/	/	/	/	/	/	/	33	Mub
25	732422631035	NANDHABALAJI V	II/MBA	/	/	/	/	/	/	/	a	/	/	/	/	33	Nan Bh
26	732422631036	PRIYADHARSAN K	II/MBA	/	/	/	/	/	/	/	/	/	/	a	a	30	Priyt
27	732422631037	RAJESHKANNAN A	II/MBA	a	a	/	/	/	/	/	/	/	/	/	/	30	R
28	732422631039	ROSHINI M	II/MBA	/	/	/	/	/	/	/	/	/	a	/	/	33	Roshini
29	732422631040	RUBI JENIFER M	II/MBA	/	/	/	/	/	/	/	/	/	/	/	/	36	Rubi jenifer
30	732422631042	SANJAY B	II/MBA	/	/	/	/	/	a	/	/	/	/	/	/	33	Sanjai
31	732422631043	SELVAKUMAR M	II/MBA	/	a	/	/	/	/	/	/	/	/	/	/	33	
32	732422631044	SELVA SHIKAMANI M	II/MBA	/	/	/	/	/	/	/	/	/	/	/	/	36	SSH

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S.No	RegNo.	Name of the Student	Year/ Branch	09.10.2023 FN	09.10.2023 AN	10.10.2023 FN	10.10.2023 AN	11.10.2023 FN	11.10.2023 AN	12.10.2023 FN	12.10.2023 AN	13.10.2023 FN	13.10.2023 AN	14.10.2023 FN	14.10.2023 AN	No. of Hours Attended	Signature of the Student
33.	732422631044	SHANMUGAPRIYA M	II/MBA	\	\	\	\	a	a	\	\a	\	\	\	\	30	Shm
34	732422631046	SNEHA S	II/MBA	\	\	\	a	\	\			\	\	\	\	33	Senha
35.	732422631047	SNEHA S	II/MBA	\	\	\	\	\	\	\	\	\	\	\	a	33	Sneha
36.	732422631049	SUBASH M	II/MBA	\	\	\	\	\	\	\	\	\	\	\	\	36	Sub
37.	732422631050	SUGANYA M	II/MBA	\	\	\	-\	\	\	\	\	\	\	\	\	36	Suganya
38	732422631051	SUVEDA P	II/MBA	\	a	\	\	\	\	\	\	\	\	\	\	33	Sush
39.	732422631052	VASANTH S	II/MBA	\	\	\	\	\	\	\	\	a	a	\	\	30	Vasht
40.	732422631053	VENKADESH N	II/MBA	\	\	\	\	\	a	\	\	\	\	\	\	33	Venkadesh
41	732422631054	VIGNESH P	II/MBA	\	\	\	\	\	\	a	a	\	\	\	\	30	Vighi
42.	732422631055	VIGNESWARAMOORTHY R	II/MBA	\	\	\	\	\	\	\	\	\	\	a	a	30	Moorthy
43	732422631056	VIJI S	II/MBA	\	\	\	a	\	\	\	\	\	\	\	\	33	Viji
44	732422631058	VISHVA K S	II/MBA	\	\	\	\	\	\	\	\	\	a	\	\	33	Vish
45	732422631059	YOGIRAMSURATHKUMAR M	II/MBA	\	\	\	\	\	\	\	\	\	\	\	\	36	yogiramsur
46.	732423631002	ANUSHREE U S	II/MBA	\	a	\	\	\	\	\	\	\	\	\	\	33	Anush
47.	732423631003	ASIFARIFANA M	II/MBA	\	a	a	\	\	\	\	\	\	\	\	\	30	Anush
48.	732423631004	BALAJI VISWANATH D	II/MBA	\	\	\	\	\	\	\	\	\	\	\	\	36	Banuvish
49.	732423631005	DAMODHARAN T	II/MBA	\	\	\	\	\	\	\	\	\	\	\	9	33	Damodha
50.	732423631006	DEEPIKA T	II/MBA	\	\	\	\	\	\	\	\	\	\			36	Deepik
51.	732423631007	DHARANIPRIYA M	I/MBA	\	\	\	\	\	\	\	a						Dhary

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STUDENTSATTENDANCE LIST-VALUEADDEDCOURSE

S.No	Reg No	Name	Program														Total	Signature
52	732423631008	GOWTHAM S	I/MBA	a	a	/	/		/	/	/	/		/	/	/	/	30	Gowtha
53	732423631010	GUHAN S	I/MBA	/	/		/	/	/	a	/		/	/	/	/	/	33	Guhan
54	732423631010	HARISHKARTHICK AKV	I/MBA	/	/		/	/	/	/	/	/		/	/	/	/	30	Harsha
55	732423631011	JEYA AKSHAYAA J	I/MBA	/	/	/		/	/	a	a	/	/	/	/	/		30	Akshayaa
56	732423631012	JEYA SUBHIKSHA J	I/MBA	/	/	/	/		/	/	/	/	/	/	/	/	a	33	Jeya Subhik
57	732423631013	KAVYA N	I/MBA	/	/	/	/		/	/	/	/	/	a	/	/		33	Kavya
58	732423631014	KRISHNASAMY K	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/		36	Krishnak
59	732423631015	KUMARAKALAIAZHAGAN K	I/MBA	/	/	/	/		/	/	/	a	/	/	/	/		33	KUMARKALAIAZHAGAN
60	732423631015	MOHAMMED MUSTHIK J	I/MBA	/	/	a	a	/		/	/	/	/	/	/	/	/	30	Moha
61	732423631017	NANDHAKUMARI S	I/MBA	/	/	/	/	/	/		/	/	/	/	/	/	/	36	Nandhakumari
62	732423631018	NAVEEN KUMAR M	I/MBA	/	a	/	/	/	/	/	/	/	/	/	/	/	/	33	Naveen
63	732423631019	NIVEETHA B	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	36	Niveetha
64	732423631020	PRANESH P M	I/MBA	/	/	/	/	/	/	/	/	/	a	/	/	/		33	Pranesh
65	732423631021	RAJA M	I/MBA	/	/	/	/	/	/	a	a	/	/	/	/	/		30	Raja
66	732423631022	RAY SHIVA MALLES L	I/MBA	/	/	/	a	/	/	/	/	/	/	/	/	/		33	Malles
67	732423631023	SATHYASEELAN	I/MBA	/	/	/	/	a	a	/	/	/	/	/	/	/		30	Sathyaseelan
68	732423631024	SHARMILA T	I/MBA	/	/	a	a	/	/	/	/	/	/	/	/	/		30	Sharmila
69	732423631025	SOWMIYA G	I/MBA	/	/	/	/	/	/	/	/	/	a	/	/			33	Sowmiya
70	732423631026	SREENAATH B	I/MBA	/	/	/	/	/	/	/	a	/	/	/	/			33	Sreena
71	732423631027	SUMITHRADEVI C	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/			36	Devi
72	732423631027	VARALAKSHMI S	I/MBA	/	/	/	/	/	a	/	/	/	/	/				33	Varalakshmi
73	732423631029	VASANTHI A	I/MBA	/	/	/	/	/	/	/	/	a							Vasanth

Dr.M.VIJAYAKUMAR ME, Ph.D
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STUDENTSATTENDANCE LIST-VALUEADDEDCOURSE

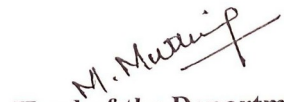| 74 | 732423631030 | VASUKI S | I/MBA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 36 | Vasuki- |
75	732423631031	VIGNESH U	I/MBA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	a	33	Vignesh
76	732423631032	VIJAYAKUMAR V	I/MBA	✓	✓	a	a	✓	✓	✓	✓	✓	✓	✓	✓	30	Vij
77	732423631033	VISHNUVARTHAN S	I/MBA	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	✓	✓	33	Vish

VAC Coordinator

HoD/MBA

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

SASURIE
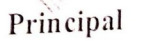COLLEGE OF ENGINEERING
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Report on Value Added Course

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).

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INSTITUTIONS   Vijayamangalam, Tiruppur.

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION
Certificate of Participation

This is to Certify that **Ms.NIVEETHA B, I/MBA** has successfully completed the **Value Added Course** titled "Impact of

Industry 4.0 on Engineering Product Life Cycle Management" Organized by the **Department of Master of Business**

Administration in association with IQAC of Sasurie College of Engineering and Centrio Group of Companies from

09.10.2023 to 14.10.2023 (6 days).

Co-ordinator   Head of the Department   Principal

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

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Vijayamangalam, Tiruppur.

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION
Certificate of Participation

This is to Certify that **Mr.BALAKUMAR U, II/MBA** has successfully completed the **Value Added Course** titled "Impact

of Industry 4.0 on Engineering Product Life Cycle Management" Organized by the **Department of Master of Business**

Administration in association with IQAC of Sasurie College of Engineering and Centrio Group of Companies from

09.10.2023 to 14.10.2023 (6 days).

Co-ordinator

M. Muthu
Head of the Department

Principal

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

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Vijayamangalam, Tiruppur.

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION
Certificate of Participation

This is to Certify that **Ms.ASIFA RIFANA.M, I/MBA** has successfully completed the **Value Added Course** titled "Impact

of Industry 4.0 on Engineering Product Life Cycle Management" Organized by the **Department of Master of Business**

Administration in association with IQAC of **Sasurie College of Engineering** and **Centrio Group of Companies** from

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Co-ordinator

Head of the Department

Principal

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PRINCIPAL
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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

TEST QUESTION PAPER-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**

Date of Test : 14.10.2023

MULTIPLE CHOICE QUESTIONS (25X1=25 Marks)

Name of the Student:　　　　　　　　Year/ Sem:

AU Register Number:

Answer all the questions:

1. Which of the following is a key feature of Industry 4.0 in product life cycle management?

A) Limited use of data analytics
B) Real-time data collection and analysis for decision-making
C) Focus only on production without considering design and development
D) Relying on traditional manual processes

2. How do digital twins improve product life cycle management?

A) They simulate only the manufacturing process.
B) They provide a real-time digital replica of the physical product, helping with maintenance and optimization.
C) They replace all human decision-making in product life cycles.
D) They have no significant impact on product life cycle management

3. What role does artificial intelligence (AI) play in Industry 4.0 for EPLM?

A) AI only helps in marketing and sales.
B) AI is used to automate manual tasks in the product development phase.
C) AI analyzes big data to predict performance and optimize decision-making throughout the product life cycle.
D) AI eliminates the need for product designers and engineers.

4. How does additive manufacturing (3D printing) affect product life cycle management?

A) It only accelerates the final production stage.

B) It reduces the need for prototyping and testing.

C) It accelerates prototyping, enables customization, and reduces waste throughout the product life cycle.

D) It has no impact on product life cycle management.

5. Industry 4.0 promotes the use of which technology to enhance collaboration in product development?

A) Blockchain for data security

B) Virtual Reality (VR) for product simulation and design

C) Artificial intelligence to replace human workers

D) Email systems for better communication

6. In what way does the Internet of Things (IoT) contribute to EPLM under Industry 4.0?

A) IoT connects devices and provides real-time data to monitor product performance and enable predictive maintenance.

B) IoT automates the design phase entirely.

C) IoT is only useful for manufacturing equipment maintenance.

D) IoT has no role in product life cycle management.

7. What is the primary advantage of using cloud computing in EPLM within the context of Industry 4.0?

A) Cloud computing reduces product customization.

B) Cloud computing enhances real-time collaboration and data sharing across teams and locations.

C) Cloud computing eliminates the need for product testing.

D) Cloud computing reduces the accuracy of product simulations.

8. Which of the following is NOT a benefit of Industry 4.0 for product life cycle management?

A) Enhanced product traceability and monitoring

B) Improved product quality through advanced simulations and real-time feedback

C) Decreased need for data security and protection

D) Faster and more accurate decision-making through data analytics

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9. How does Industry 4.0 support sustainability in product life cycle management?

A) By using more energy-consuming processes
B) By enabling better resource tracking and reducing waste through optimized production
C) By eliminating the need for recycling processes
D) By increasing the use of non-renewable materials in manufacturing

10. What is the effect of Industry 4.0 on the design phase of the product life cycle?

A) It makes the design phase less important.
B) It increases reliance on traditional CAD systems without any integration of new technologies.
C) It allows for more innovative designs and faster iterations through advanced simulation tools and digital prototyping.
D) It reduces the need for any design changes during the product life cycle.

11. Which of the following tools is commonly used for product design and simulation in Industry 4.0?

A) Email communication
B) Advanced CAD and CAE tools with integrated simulation capabilities
C) Paper prototypes
D) Basic spreadsheets for calculations

12. Industry 4.0's impact on EPLM emphasizes the importance of which factor in the product development process?

A) Reduced collaboration between design, manufacturing, and service teams
B) Centralized decision-making from a single department
C) Greater collaboration and integration of digital technologies throughout the product life cycle
D) Limiting the use of digital tools to the manufacturing stage only

13. Which of the following best describes the concept of the "smart factory" in Industry 4.0?

A) A factory that uses only manual processes
B) A fully automated factory with interconnected machines that communicate in real time to optimize production
C) A factory with no digital integration
D) A factory that focuses only on assembling product

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

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14. How does Industry 4.0 improve the manufacturing phase of the product life cycle?

A) By reducing the need for product testing and quality assurance
B) By increasing the reliance on traditional assembly lines
C) By enhancing flexibility, speed, and precision through automation and real-time data analytics
D) By eliminating the need for workers in the production process

15. Which technology is used for real-time monitoring of product performance in the post-production phase under Industry 4.0? -

A) Blockchain
B) Internet of Things (IoT)
C) Additive manufacturing
D) Big Data storage systems

16. How does Industry 4.0 enhance product testing in the product life cycle?

A) By reducing the need for any testing, relying on automated systems
B) By automating and accelerating testing through simulations and virtual environments
C) By eliminating the need for prototypes
D) By making testing more costly and time-consuming

17. What is the role of data analytics in EPLM under Industry 4.0?

A) Data analytics plays a minimal role, as decisions are still made based on intuition.
B) Data analytics is used to optimize production and service processes but not product design.
C) Data analytics supports decision-making across all stages, from design to post-production, by analyzing large datasets for patterns and insights.
D) Data analytics is used only in marketing and sales phases

18. Which of the following is an example of a digital tool used in Industry 4.0 to improve EPLM?

A) Manual pen and paper designs
B) Artificial Intelligence (AI) for predictive maintenance and quality control
C) Fax machines for data sharing
D) Traditional mechanical devices without digital integration

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

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19. Which of the following represents a challenge of integrating Industry 4.0 technologies in product life cycle management?

A) Increased product life cycle duration
B) High upfront investment costs in digital infrastructure and training
C) Decreased accuracy in product testing
D) Limited impact on data security

20. How does Industry 4.0 influence the after-sales phase of product life cycle management?

A) It eliminates the need for after-sales service teams.
B) It enables predictive maintenance and real-time monitoring, improving the customer experience.
C) It reduces the need for customer feedback.
D) It focuses only on product design, not on post-sale services.

21. What is the role of blockchain technology in EPLM under Industry 4.0?

A) Blockchain ensures transparency, traceability, and security of product data across the entire life cycle.
B) Blockchain automates the design process.
C) Blockchain replaces the need for traditional manufacturing processes.
D) Blockchain has no role in product life cycle management.

22. Which of the following is a direct benefit of real-time data in EPLM?

A) Decreased product quality control measures
B) Increased communication barriers between teams
C) Improved decision-making and quick responses to issues during product development and production
D) Elimination of customer feedback from the product development process

23. What is a potential risk associated with Industry 4.0 integration in EPLM?

A) Improved collaboration across all departments
B) Increased reliance on automated systems, leading to job displacement
C) Reduced data security and privacy concerns
D) Less emphasis on digital technologies in product design

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24. How does Industry 4.0 contribute to the customization of products during the manufacturing process?

A) By offering greater flexibility and adaptability through advanced production techniques like 3D printing and AI-driven design tools
B) By reducing the need for product variations and keeping designs standard
C) By eliminating the need for custom orders altogether
D) By slowing down production to allow for complex customizations

25. Which of the following is an example of how Industry 4.0 impacts the supply chain in EPLM?

A) It introduces highly manual processes for tracking and reporting supply chain data.
B) It reduces the need for transparency in supply chain management.
C) It uses IoT and data analytics to improve forecasting, inventory management, and logistics.
D) It eliminates supply chain management in favor of centralized production.

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

TEST QUESTION ANSWER KEY – 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

Date of Test :14.10.2023

1	B	6	A	11	B	16	B	21	A
2	B	7	B	12	C	17	C	22	C
3	C	8	C	13	B	18	B	23	B
4	C	9	B	14	C	19	B	24	A
5	B	10	C	15	B	20	B	25	C

VAC Coordinator

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

TEST QUESTION PAPER-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**

Date of Test : 14.10.2023

MULTIPLE CHOICE QUESTIONS (25X1=25 Marks)

Name of the Student: Year/ Sem:

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3. What role does artificial intelligence (AI) play in Industry 4.0 for EPLM?

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PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

ASSESMENT SHEET-VALUE ADDED COURSE
"Impact of Industry 4.0 on Engineering

Product Life Cycle Management"

From 09.10.2023 to 14.10.2023 (6days)

Academic Year: 2023-2024/ODD

Duration: 36 Hours

| S.No | Reg No. | Name of the Student | Year/ Branch | Attendance Details | | VAC-MCQTEST | | OVERALL Score(100) (50%of A +50% of B) |
				No. of Hours Attended	Attendance Score (100)(A)	No.of Correct Answers	MCQ Score(100) (B)	
1.	732422631001	AMIRTHA K	II/MBA	36	100	18	72	86
2.	732422631002	ANNALAKSHMI N	II/MBA	33	90	19	76	83
3.	732422631003	ANU A	II/MBA	30	80	18	72	76
4.	732422631004	BALAKUMAR U	II/MBA	33	90	19	76	83
5.	732422631005	BHARATHIVELAN B	II/MBA	30	80	20	80	80
6.	732422631007	CHANDRUPRIYAN T	II/MBA	30	80	20	80	80
7.	732422631009	DEENA DAYALAN J	II/MBA	33	90	19	76	83
8.	732422631010	DHANUSH S	II/MBA	33	90	19	76	83
9.	732422631012	DHARANI PRIYA D	II/MBA	36	100	19	76	88
10	732422631013	DHINAKARAN T	II/MBA	33	90	19	76	83
11	732422631016	GNANAMBIKA A	II/MBA	30	80	21	84	82
12	732422631017	GANESHKUMAR P	II/MBA	36	100	18	72	86
13	732422631019	GOKULKRISHNAN T	II/MBA	33	90	19	76	83
14	732422631020	GOWRI SANKAR K	II/MBA	30	80	21	84	82

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
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ASSESMENT SHEET-VALUE ADDED COURSE

S.No	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL Score(100) (50%of A +50% of B)
				No. of Hours Attended	Attendance Score (100)(A)	No. of Correct Answers	MCQ Score(100) (B)	
15.	732422631021	GUNA P	II CSE	33	90	19	76	83
16.	732422631022	HARIHARAN R	II CSE	33	90	19	76	83
17.	732422631023	HARINEE L	II CSE	36	100	19	76	88
18.	732422631024	HARI PRASATH P	II CSE	30	80	18	72	76
19.	732422631026	JAGATHEESWARAN S	II CSE	36	100	21	84	92
20.	732422631027	JEEVA S	II CSE	33	90	19	76	83
21.	732422631029	KAPHINI P S	II CSE	36	100	19	76	88
22.	732422631030	KAVIPRIYA D	II CSE	36	100	18	72	86
23.	732422631032	MENAKADEVI C	II CSE	36	100	21	84	92
24.	732422631033	MUBASHSHIRA A	II CSE	33	90	21	84	87
25.	732422631035	NANDHABALAJI V	II CSE	33	90	21	84	87
26.	732422631036	PRIYADHARSAN K	II CSE	30	80	20	80	80
27.	732422631037	RAJESHKANNAN A	II CSE	30	100	18	72	86
28.	732422631039	ROSHINI M	II CSE	33	90	19	76	83
29.	732422631040	RUBI JENIFER M	II CSE	36	100	19	76	88
30.	732422631042	SANJAY B	II CSE	33	80	18	72	76
31.	732422631043	SELVAKUMAR M	II CSE	33	80	21	84	82
32.	732422631044	SELVA SHIKAMANI M	II CSE	36	100	18	72	86

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ASSESMENT SHEET-VALUE ADDED COURSE

S.No.	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQTEST		OVERALL Score(100) (50%of A +50% of B)
				No. of Hours Attended	Attendance Score (100)(A)	No. of Correct Answers	MCQ Score(100) (B)	
			II/MBA	30	80	20	80	80
33.	732422631044	SHANMUGAPRIYA M	II/MBA	33	90	19	76	83
34.	732422631046	SNEHA S	II/MBA	33	90	19	76	83
35.	732422631047	SNEHA S	II/MBA	36	100	19	76	88
36.	732422631049	SUBASH M	II/MBA	36	100	18	72	86
37.	732422631050	SUGANYA M	II/MBA	33	90	19	76	83
38.	732422631051	SUVEDA P	II/MBA	30	80	18	72	76
39.	732422631052	VASANTH S	II/MBA	33	90	19	76	83
40.	732422631053	VENKADESH N	II/MBA	30	80	20	80	80
41.	732422631054	VIGNESH P	II/MBA	30	80	20	80	80
42.	732422631055	VIGNESWARAMOORTHY R	II/MBA	33	90	19	76	83
43.	732422631056	VIJI S	II/MBA	33	90	19	76	83
44.	732422631058	VISHVA K S	II/MBA	36	100	19	76	88
45.	732422631059	YOGIRAMSURATHKUMAR M	II/MBA	33	90	19	76	83
46.	732423631002	ANUSHREE U S	II/MBA	30	80	21	84	82
47.	732423631003	ASIFARIFANA M	II/MBA	36	100	18	72	86
48.	732423631004	BALAJI VISWANATH D	II/MBA	33	90	19	76	83
49.	732423631005	DAMODHARAN T	II/MBA	36	100	18	72	86
50.	732423631006	DEEPIKA T	I/MBA	33	90			
51.	732423631007	DHARANIPRIYA M						

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SASURIE COLLEGE OF ENGINEERING,
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S.No	Reg No	Name	Class					
			II/MBA	30	80	18	72	76
52	732423631008	GOWTHAM S	II/MBA	33	90	19	76	83
53	732423631010	GUHAN S	I/MBA	30	80	20	80	80
54	732423631010	HARISHKARTHICK AKV	I/MBA	30	80	20	80	80
55	732423631011	JEYA AKSHAYAA J	I/MBA	33	90	19	76	83
56	732423631012	JEYA SUBHIKSHA J	I/MBA	33	90	19	76	83
57	732423631013	KAVYA N	I/MBA	36	100	19	76	88
58	732423631014	KRISHNASAMY K	I/MBA	33	90	19	76	83
59	732423631015	KUMARAKALAIAZHAGAN K	I/MBA	30	80	21	84	82
60	732423631015	MOHAMMED MUSTHIK J	I/MBA	36	100	18	72	86
61	732423631017	NANDHAKUMARI S	I/MBA	33	90	19	76	83
62	732423631018	NAVEEN KUMAR M	I/MBA	36	100	18	72	86
63	732423631019	NIVEETHA B	I/MBA	33	90	19	76	83
64	732423631020	PRANESH P M	I/MBA	30	80	18	72	76
65	732423631021	RAJA M	I/MBA	33	90	19	76	83
66	732423631022	RAY SHIVA MALLES L	I/MBA	30	80	20	80	80
67	732423631023	SATHYASEELAN	I/MBA	30	80	20	80	80
68	732423631024	SHARMILA T	I/MBA	33	90	19	76	83
69	732423631025	SOWMIYA G	I/MBA	33	90	19	76	83
70	732423631026	SREENAATH B	I/MBA	36	100	19	76	88
71	732423631027	SUMITHRADEVI C	I/MBA	33	90	19	76	83
72	732423631027	VARALAKSHMI S	I/MBA	30	80	21	84	82
73	732423631029	VASANTHI A	I/MBA	36	100	18		86
74	732423631030	VASUKI S	I/MBA	33	90			83
75	732423631031	VIGNESH U						

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76.	732423631032	VIJAYAKUMAR V	I/MBA	30	100	18	72	86
77.	732423631033	VISHNUVARTHAN S	I/MBA	33	90	19	76	83

VAC Coordinator

M.Muttu
HOD/MBA

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

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION
Certificate of Participation

This is to Certify that **Ms.SUVEDA P, II/MBA** has successfully completed the **Value Added Course** titled "Impact of

Industry 4.0 on Engineering Product Life Cycle Management" Organized by the Department of Master of Business

Administration in association with IQAC of Sasurie College of Engineering and Centrio Group of Companies from

09.10.2023 to 14.10.2023 (6 days).

Co-ordinator

Head of the Department

Principal

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