

**DEPARTMENT OF
MECHANICAL
ENGINEERING**

Course Outcome Attainment

Programme: 015 **AcademicYear:** 2022-2023
Batch: 2019-2023 **Section:** A

Course Code	Course Name	CO	Target %	Level	Attained
XMA101	Calculus and Linear Algebra	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XCP102	Programming for Problem Solving	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XGS103	English	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XAC104	Applied Chemistry for Engineers	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XWP105	Workshop Practices	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XMA201	Calculus, ODE & Complex Variables	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes





Course Outcome Attainment

Programme: 015

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Course Code	Course Name	CO	Target %	Level	Attained
XES202	Environmental Science	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBE203	Electrical and Electronics Engineering Systems	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XAP204	Applied Physics for Engineers	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XEG205	Engineering Graphics	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XME301	PDE, Probability & Statistics	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XME302	Thermodynamics	CO1	60	3	Yes
		CO2	60	1	No
		CO3	60	0	No
		CO4	60	0	No
		CO5	60	0	No





Course Outcome Attainment

Programme: 015 Academic Year: 2022-2023
 Batch: 2019-2023 Section: A

Course Code	Course Name	CO	Target %	Level	Attained
XME303	Strength of Materials	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XEM304	Engineering Mechanics	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	1	No
XUM305	Entrepreneurship Development	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XME306	Manufacturing Processes	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	0	No
XME307	Inplant Training - I	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XME401	Applied Thermodynamics	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	0	No
		CO5	60	0	No





Course Outcome Attainment

Programme: 015 **AcademicYear:** 2022-2023
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Course Code	Course Name	CO	Target %	Level	Attained
XME402	Solid Mechanics	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XUM403	Human Ethics, Values, Rights and Gender Equality	CO1	60	3	Yes
		CO2	60	2	No
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XME404	Fluid Mechanics & Fluid Machines	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	2	No
		CO4	60	3	Yes
		CO5	60	0	No
XME405	Materials Engineering	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XME406	Instrumentation & Control	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XME501	Operation Research	CO1	60	2	No
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes





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Course Code	Course Name	CO	Target %	Level	Attained
XME502	Heat Transfer	CO1	60	0	No
		CO2	60	2	No
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	0	No
XME503	Automobile Engineering	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	1	No
		CO5	60	3	Yes
XME504	CAD/CAM	CO1	60	0	No
		CO2	60	0	No
		CO3	60	2	No
		CO4	60	1	No
		CO5	60	0	No
XME505	Kinematics & Theory of Machines	CO1	60	3	Yes
		CO2	60	1	No
		CO3	60	1	No
		CO4	60	2	No
		CO5	60	0	No
XUM506	Constitution of India	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XME507	Mechanical Engineering Laboratory I (Thermal)	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes





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Course Code	Course Name	CO	Target %	Level	Attained
XME508	Inplant Training – II	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XUM601	Economics for Engineers	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	1	No
		CO4	60	2	No
		CO5	60	1	No
XME602	Manufacturing Technology	CO1	60	1	No
		CO2	60	2	No
		CO3	60	1	No
		CO4	60	1	No
		CO5	60	0	No
XME603	Design of Machine Element	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XME606	Mechanical Engineering Laboratory II	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XME702	Automation in Manufacturing	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	1	No





Course Outcome Attainment

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Course Code	Course Name	CO	Target %	Level	Attained
XUM706	Cyber Security	CO1	60	0	No
		CO2	60	0	No
		CO3	60	1	No
		CO4	60	2	No
		CO5	60	3	Yes
XME707	Mechanical Engineering Laboratory III	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XME708	Project Phase – I	CO1	60	2	No
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XME709	Inplant Training – III	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XME804	Project phase – II	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XMEE20	Product Design and Development	CO1	60	0	No
		CO2	60	0	No
		CO3	60	2	No
		CO4	60	0	No
		CO5	60	0	No



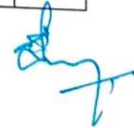


Course Outcome Attainment

Programme: 015 **AcademicYear:** 2022-2023
Batch: 2019-2023 **Section:** A

Course Code	Course Name	CO	Target %	Level	Attained
XMEE21	Computer Integrated Manufacturing	CO1	60	3	Yes
		CO2	60	2	No
		CO3	60	0	No
		CO4	60	0	No
		CO5	60	1	No
XMEE22	Process Planning and Cost Estimation	CO1	60	3	Yes
		CO2	60	2	No
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	1	No
XMEE02	Power Plant Engineering	CO1	60	0	No
		CO2	60	0	No
		CO3	60	0	No
		CO4	60	0	No
		CO5	60	0	No
XMEE04	Renewable Energy Sources	CO1	60	0	No
		CO2	60	0	No
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	0	No
XMEE16	Microelectromechanical Systems	CO1	60	2	No
		CO2	60	0	No
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	0	No
XMEE17	Industrial Safety	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes





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Course Outcome Attainment

Programme: 015

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Section: A

Course Code	Course Name	CO	Target %	Level	Attained
XMEE19	Total Quality Management	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	0	No

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Overall PO Attainment Report

Programme: 015 AcademicYear: 2022-2023
 Batch: 2019-2023 Section: A

S.No.	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	XMA101	3	1.6	0	0	0.6	0	0	0	0	1	0	1.4	0	0
2	XCP102	2.4	2	0.6	0.8	2.2	0	0	0.2	0	0.4	2	2.4	2	0
3	XGS103	1.4	0	0	0	0	0	1.2	0	0.8	0	0	0	0	0
4	XAC104	2.8	0	0	0	0	0	2	2.6	2.8	0	0	0	0	0
5	XWP105	2	1	2	2	1	0	0	1	1	0	1	2	3	0
6	XMA201	3	1.6	0	0	0.6	0	0	0	0	1	0	1.4	0	0
7	XES202	2	0.6	1.2	0	0	2.2	0.8	0.6	0.4	0.4	0	1	0	0
8	XBE203	2.4	2.4	1.2	1	1.2	1.2	0.6	0.6	1	1	1	0	0	0
9	XAP204	3	1.2	1.8	1.2	0.8	0	0	0	0.6	0	0	1	0	0
10	XEG205	3	3	3	1.2	3	1.2	3	1	1	1.2	2.2	3	3	0
11	XME301	3	2	1	0.6	0.4	0.4	0.2	0	1	1	0.4	1	0	0
12	XME302	0.6	0	0.2	0.1	0.8	0	0.5	0.4	0.5	0	0	0.6	0	0.8
13	XME303	3	3	2	3	3	1	2	1	2	1	2.4	3	2	0

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14	XEM304	2.5	1.7	0.9	2.6	0.9	0.9	1.8	2.6	1.8	0.9	2.6	1.7	0
15	XUM305	1	2.2	2.8	1	0	3	1	1.4	3	1.8	2.4	1	1
16	XME306	2.4	2.4	2.4	0.4	1.6	0	0	1.6	0	1.6	2.4	2.4	0
17	XME307	0.4	0.2	0.4	0.8	0.6	0	0.2	0.6	0.6	0.8	1	0	0
18	XME401	1.8	1.6	0.6	0.6	0.6	0	0	1	1.8	1.8	1.8	0	1.8
19	XME402	3	2	0.6	2	1.2	0	0	0.6	1	1	1	2	0
20	XUM403	0	0	0	0	0	0	0	2.4	0.5	0.8	0	0.4	0
21	XME404	2.2	0	0.8	0.9	2.2	0.7	0.6	1.3	1.1	1.1	0.6	1.1	0
22	XME405	2.6	2.4	1.8	2.2	1	0.4	0	1.2	2	2.6	2	2.2	1
23	XME406	2	1	1	1	1	1	1	1	1	2	1	1	1
24	XME501	2.8	0.9	0	0.9	0	0	0.9	0	0.9	0	0.3	0	0
25	XME502	1.2	1.5	1.2	1.1	0.5	0.5	0.4	0	0.4	0	0	0.5	0
26	XME503	2.6	2.6	1.7	2.6	2.6	0.9	2.6	0.9	0.9	1.7	1.7	2.6	1.7
27	XME504	0.6	0.4	0.4	0.6	0.5	0.2	0.6	0.2	0.2	0.5	0.4	0.6	0
28	XME505	1.4	0.7	1	0	1.1	0.5	0	0.9	0.6	0	0.9	1.4	0

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29	XUIM506	2	0.4	0	1	0	0	0	0.4	0.6	0	0	0	0	0	0	0	0
30	XME507	2	3	0.4	1.8	1	1	0	0	0.6	0	0	0.8	0.2	3			
31	XME508	0.4	0.2	0.4	0.8	0.6	0	0.2	0.6	0.6	0.8	1	0	0				
32	XME702	2.4	1.2	0.6	1.4	0.7	0	0.2	0.3	0.7	0.6	0.6	2	0				
33	XUIM706	0.9	0.9	1	1	0.6	0.1	0.5	0.5	0.4	0	0	0	0.6	0.4			
34	XME707	2	3	0.4	1.8	1	1	0	0	0.6	0	1	3	0				
35	XME708	0.9	2.8	2.6	1.9	1.9	0.9	1.5	2.8	0.9	0.9	1.9	2.8	1.9	1.9			
36	XME709	0.4	0.2	0.4	0.8	0.6	0	0.2	0.6	0.6	0.8	1	0	0				
37	XME804	1	3	3	2	2	1	2	3	1	1	2	2.8	2	2			
38	XMEE20	0.4	0.4	0.4	0.4	0.4	0.4	0.1	0.3	0.1	0.3	0.3	0.3	0.4	0			
39	XMEE21	0.5	0.1	0.6	1	0.5	0.7	0.9	0.4	0.6	0.9	1.1	0.9	1.2	0			
40	XMEE02	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
41	XMEE22	0.9	0.1	1	1.8	0.9	1.1	1.9	0.8	1	1.9	2.1	1.9	1.6	0			
42	XMEE04	1.2	1.2	1	0.2	0.6	0.6	0.2	1	1.2	0.8	1.2	1.2	0	1.2			
43	XMEE16	0.5	0.5	1.1	0.5	0.5	1.1	0.5	0.5	0.5	0.5	0.5	0.5	1.6	0			

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Overall PO Attainment Report

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44	XMEE17	1.2	1	2	1	1	1	1	1	1.2	1	3	0
45	XMEE19	1.6	1.6	0.8	0.8	0.2	0.8	0.8	0.8	0.8	0.8	0.8	0
46	XMAOE3	2.4	0.8	0	0	0	0.4	0	0.8	0	0	0	0

AverageAttained	1.7	1.3	1	0.9	0.9	0.9	0.5	0.6	0.8	0.9	0.7	0.8	1.2	0.9	0.4
Direct Attainment(80%)	2.4	2.6	2.5	2.3	2.3	2.3	2.1	2.3	2.4	2.5	2.3	2.2	2.4	2.3	2

Prog. Exit Survey(10%)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Alumni Survey(10%)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Overall Attainment	2.5	2.7	2.6	2.4	2.4	2.4	2.3	2.4	2.5	2.6	2.4	2.4	2.5	2.4	2.2
Attained	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No


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Programme Articulation Matrix

Programme: 015 AcademicYear: 2022-2023
Batch: 2019-2023

S.No.	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	XMA101.1	3	2	0	0	2	0	0	0	0	1	0	2	0	0
2	XMA101.2	3	1	0	0	0	0	0	0	0	1	0	1	0	0
3	XMA101.3	3	1	0	0	0	0	0	0	0	1	0	1	0	0
4	XMA101.4	3	2	0	0	0	0	0	0	0	1	0	1	0	0
5	XMA101.5	3	2	0	0	1	0	0	0	0	1	0	2	0	0
6	XCP102.1	3	2	0	0	3	0	0	0	0	0	2	3	2	0
7	XCP102.2	3	2	0	0	2	0	0	0	0	0	2	3	2	0
8	XCP102.3	2	2	1	2	2	0	0	0	0	0	2	2	2	0
9	XCP102.4	2	2	1	2	2	0	0	0	0	0	2	2	2	0
10	XCP102.5	2	2	1	0	2	0	0	1	0	2	2	2	2	0
11	XGS103.1	2	0	0	0	0	0	2	0	1	0	0	0	0	0
12	XGS103.2	2	0	0	0	0	0	2	0	1	0	0	0	0	0
13	XGS103.3	1	0	0	0	0	0	1	0	1	0	0	0	0	0

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Programme Articulation Matrix

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14	XGS103.4	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
15	XGS103.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	XAC104.1	3	0	0	0	0	0	0	2	3	3	0	0	0	0	0	0	0
17	XAC104.2	2	0	0	0	0	0	0	1	2	2	0	0	0	0	0	0	0
18	XAC104.3	3	0	0	0	0	0	0	2	3	3	0	0	0	0	0	0	0
19	XAC104.4	3	0	0	0	0	0	0	3	3	3	0	0	0	0	0	0	0
20	XAC104.5	3	0	0	0	0	0	0	2	2	3	0	0	0	0	0	0	0
21	XWP105.1	2	1	2	2	1	0	0	0	1	1	0	1	0	1	2	3	0
22	XWP105.2	2	1	2	2	1	0	0	0	1	1	0	1	0	1	2	3	0
23	XWP105.3	2	1	2	2	1	0	0	0	1	1	0	1	0	1	2	3	0
24	XWP105.4	2	1	2	2	1	0	0	0	1	1	0	1	0	1	2	3	0
25	XWP105.5	2	1	2	2	1	0	0	0	1	1	0	1	0	1	2	3	0
26	XMA201.1	3	2	0	0	2	0	0	0	0	0	1	0	1	0	2	0	0
27	XMA201.2	3	1	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0
28	XMA201.3	3	1	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0




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29	XMA201.4	3	2	0	0	0	0	0	0	0	0	0	1	0	0	0
30	XMA201.5	3	2	0	0	1	0	0	0	0	0	1	0	2	0	0
31	XES202.1	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0
32	XES202.2	2	0	0	0	0	2	1	0	0	1	0	1	0	0	0
33	XES202.3	2	1	3	0	0	3	1	0	2	1	0	1	0	0	0
34	XES202.4	1	1	2	0	0	3	2	3	0	0	0	1	0	0	0
35	XES202.5	2	1	1	0	0	3	0	0	0	0	0	1	0	0	0
36	XBE203.1	3	3	1	1	1	1	1	0	0	1	1	0	0	0	0
37	XBE203.2	3	3	1	1	1	1	1	0	0	1	1	1	0	0	0
38	XBE203.3	2	2	2	1	2	2	1	1	1	1	1	1	0	0	0
39	XBE203.4	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0
40	XBE203.5	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0
41	XAP204.1	3	2	2	2	1	0	0	0	1	0	0	1	0	0	0
42	XAP204.2	3	0	1	0	1	0	0	0	0	0	0	0	1	0	0
43	XAP204.3	3	2	2	2	1	0	0	0	1	0	0	1	0	0	0

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44	XAP204.4	3	2	2	2	1	0	0	0	1	0	0	0	1	0	0
45	XAP204.5	3	0	2	0	0	0	0	0	0	0	0	0	1	0	0
46	XEG205.1	3	3	3	2	3	2	3	1	1	1	2	3	3	3	0
47	XEG205.2	3	3	3	3	1	3	1	3	1	1	1	2	3	3	0
48	XEG205.3	3	3	3	3	1	3	1	3	1	1	1	2	3	3	0
49	XEG205.4	3	3	3	3	1	3	1	3	1	1	1	2	3	3	0
50	XEG205.5	3	3	3	3	1	3	1	3	1	1	1	2	3	3	0
51	XME301.1	3	2	1	0	0	0	0	0	1	1	1	0	1	0	0
52	XME301.2	3	2	1	0	0	0	0	0	1	1	1	0	1	0	0
53	XME301.3	3	2	1	1	0	0	0	0	1	1	1	0	1	0	0
54	XME301.4	3	2	1	1	1	1	1	0	1	1	1	1	1	0	0
55	XME301.5	3	2	1	1	1	1	1	1	1	1	1	1	1	0	0
56	XME302.1	2	0	1	0	3	0	2	2	2	0	0	0	2	0	3
57	XME302.2	3	0	0	2	3	0	1	0	1	0	0	0	3	0	3
58	XME302.3	1	0	1	3	1	0	1	2	0	2	0	0	1	0	3

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59	XME302.4	2	0	0	1	1	1	0	2	1	2	2	0	1	0	3
60	XME302.5	0	0	0	1	1	1	0	0	0	1	1	0	2	0	3
61	XME303.1	3	3	2	3	3	3	1	2	1	2	1	2	3	2	0
62	XME303.2	3	3	2	3	3	3	1	2	1	2	1	3	3	2	0
63	XME303.3	3	3	2	3	3	3	1	2	1	2	1	2	3	2	0
64	XME303.4	3	3	2	3	3	3	1	2	1	2	1	2	3	2	0
65	XME303.5	3	3	2	3	3	3	1	2	1	2	1	3	3	2	0
66	XEM304.1	3	2	1	1	1	3	1	1	2	3	2	1	3	2	0
67	XEM304.2	3	2	1	1	1	3	1	1	2	3	2	1	3	2	0
68	XEM304.3	3	2	1	1	1	3	1	1	2	3	2	1	3	2	0
69	XEM304.4	3	2	1	1	1	3	1	1	2	3	2	1	3	2	0
70	XEM304.5	2	2	2	1	1	3	1	1	3	3	3	1	3	2	0
71	XUM305.1	1	2	3	1	0	3	1	1	0	3	1	2	2	1	1
72	XUM305.2	1	2	3	1	0	3	1	1	3	3	1	2	2	1	1
73	XUM305.3	1	2	3	1	0	3	1	1	0	3	1	2	2	1	1

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74	XUM305.4	1	2	2	1	0	3	1	1	3	3	3	3	1	1
75	XUM305.5	1	3	3	1	0	3	1	3	3	3	3	3	1	1
76	XME306.1	3	3	3	0	2	0	0	2	0	1	2	3	3	0
77	XME306.2	3	3	3	1	2	0	0	2	0	1	2	3	3	0
78	XME306.3	3	3	3	1	2	0	0	2	0	1	2	3	3	0
79	XME306.4	3	3	3	0	2	0	0	2	0	1	2	3	3	0
80	XME306.5	3	3	3	0	2	0	0	2	0	1	2	3	3	0
81	XME307.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
82	XME307.2	0	0	0	0	0	0	1	3	0	0	1	0	0	0
83	XME307.3	0	0	0	0	0	0	0	0	3	1	3	1	0	0
84	XME307.4	0	1	2	1	3	0	0	0	0	0	0	3	0	0
85	XME307.5	0	0	0	3	0	0	0	0	0	3	0	1	0	0
86	XME401.1	3	2	1	2	0	0	0	1	3	0	3	3	0	3
87	XME401.2	3	3	1	0	2	0	0	2	3	0	3	3	0	3
88	XME401.3	3	3	1	1	1	0	0	2	3	0	3	3	0	3

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89	XME401.4	3	3	1	0	0	0	0	0	3	0	3	3	0	3
90	XME401.5	1	2	1	0	0	0	3	3	3	0	3	3	0	3
91	XME402.1	3	2	0	2	1	0	0	0	1	0	0	0	2	0
92	XME402.2	3	2	0	2	1	0	0	0	1	0	1	1	2	0
93	XME402.3	3	1	0	1	1	0	0	1	1	0	1	1	2	0
94	XME402.4	3	2	0	2	1	0	0	0	1	0	0	0	2	0
95	XME402.5	3	3	3	3	2	0	0	2	1	0	3	3	2	0
96	XUM403.1	0	0	0	0	0	0	0	2	0	0	0	0	0	0
97	XUM403.2	0	0	0	0	0	0	0	3	1	0	0	0	0	0
98	XUM403.3	0	0	0	0	0	0	0	2	0	0	0	0	0	0
99	XUM403.4	0	0	0	0	0	0	0	3	0	2	0	0	0	0
100	XUM403.5	0	0	0	0	0	0	0	3	2	2	0	2	0	0
101	XME404.1	3	0	1	1	3	1	1	1	1	1	1	1	0	2
102	XME404.2	3	0	2	1	3	1	1	2	2	2	1	2	0	2
103	XME404.3	3	0	0	1	3	1	0	2	1	1	0	1	0	2

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104	XME404.4	3	0	1	2	3	1	1	2	2	2	1	2	0	2
105	XME404.5	3	0	2	2	3	1	1	2	2	2	1	2	0	2
106	XME405.1	2	2	3	3	1	1	0	2	3	3	1	3	2	1
107	XME405.2	3	3	1	1	1	0	0	1	1	2	3	2	2	1
108	XME405.3	3	2	1	1	1	0	0	1	2	3	1	3	2	1
109	XME405.4	2	3	1	3	1	0	0	1	1	2	3	2	2	1
110	XME405.5	3	2	3	3	1	1	0	1	3	3	2	1	2	1
111	XME406.1	2	1	1	1	1	1	1	1	1	2	1	1	2	1
112	XME406.2	2	1	1	1	1	1	1	1	1	2	1	1	2	1
113	XME406.3	2	1	1	1	1	1	1	1	1	2	1	1	2	1
114	XME406.4	2	1	1	1	1	1	1	1	1	2	1	1	2	1
115	XME406.5	2	1	1	1	1	1	1	1	1	2	1	1	2	1
116	XME501.1	3	1	0	1	0	0	1	0	1	0	1	0	0	0
117	XME501.2	3	1	0	1	0	0	1	0	1	0	0	0	0	0
118	XME501.3	3	1	0	1	0	0	1	0	1	0	0	0	0	0




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119	XME501.4	3	1	0	1	0	1	0	0	1	0	1	0	0	0	0
120	XME501.5	3	1	0	1	0	0	0	1	1	0	0	0	0	0	0
121	XME502.1	3	2	2	2	1	1	0	0	1	0	0	1	0	2	2
122	XME502.2	3	2	0	2	1	1	0	0	0	0	0	1	0	2	2
123	XME502.3	2	3	3	2	1	1	1	0	1	0	0	1	0	2	2
124	XME502.4	2	3	3	2	1	1	1	0	1	0	0	1	0	2	2
125	XME502.5	3	2	2	1	1	1	1	0	0	0	0	1	0	2	2
126	XME503.1	3	3	2	3	3	1	3	1	1	1	2	3	2	0	0
127	XME503.2	3	3	2	3	3	1	3	1	1	1	2	2	3	2	0
128	XME503.3	3	3	2	3	3	1	3	1	1	1	2	2	3	2	0
129	XME503.4	3	3	2	3	3	1	3	1	1	1	2	2	3	2	0
130	XME503.5	3	3	2	3	3	1	3	1	1	1	2	2	3	2	0
131	XME504.1	3	2	2	3	2	1	3	1	1	1	2	2	3	3	0
132	XME504.2	3	2	2	3	3	1	3	1	1	1	3	2	3	3	0
133	XME504.3	3	2	2	3	2	1	3	1	1	1	3	2	3	3	0

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134	XME504.4	3	2	2	3	3	1	3	1	1	2	2	3	0
135	XME504.5	3	3	2	3	2	1	3	1	2	3	3	3	0
136	XME505.1	3	1	1	0	2	1	0	2	1	0	2	2	0
137	XME505.2	3	2	3	0	2	1	0	2	1	0	2	3	0
138	XME505.3	3	2	3	0	2	1	0	1	1	0	2	3	0
139	XME505.4	3	2	3	0	3	1	0	2	2	0	2	3	0
140	XME505.5	3	2	2	0	3	1	0	2	1	0	2	3	0
141	XUM506.1	2	0	0	1	0	0	0	0	0	0	0	0	0
142	XUM506.2	2	0	0	1	0	0	0	0	0	0	0	0	0
143	XUM506.3	2	0	0	1	0	0	0	0	1	0	0	0	0
144	XUM506.4	2	0	0	1	0	0	0	1	1	0	0	0	0
145	XUM506.5	2	2	0	1	0	0	0	1	1	0	0	0	0
146	XME507.1	2	3	0	2	1	1	0	0	1	0	0	1	3
147	XME507.2	2	3	0	2	1	1	0	0	0	0	0	1	3
148	XME507.3	2	3	0	2	1	1	0	0	1	0	0	1	3

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149	XME507.4	2	3	2	1	1	1	0	0	1	0	0	1	0	3
150	XME507.5	2	3	0	2	1	1	0	0	0	0	0	1	0	3
151	XME508.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
152	XME508.2	0	0	0	0	0	0	1	3	0	0	1	0	0	0
153	XME508.3	0	0	0	0	0	0	0	0	3	1	3	1	0	0
154	XME508.4	0	1	2	1	3	0	0	0	0	0	0	3	0	0
155	XME508.5	0	0	0	3	0	0	0	0	0	3	0	1	0	0
156	XME702.1	2	0	2	1	0	0	1	0	0	3	0	0	0	0
157	XME702.2	3	2	0	2	1	0	0	0	1	0	1	1	3	0
158	XME702.3	3	1	0	1	1	0	0	1	1	0	1	1	3	0
159	XME702.4	3	2	0	2	1	0	0	0	1	0	0	0	3	0
160	XME702.5	3	3	3	3	2	0	0	2	1	0	3	3	3	0
161	XUM706.1	3	3	3	3	3	0	2	2	2	0	0	0	3	2
162	XUM706.2	3	3	3	3	2	1	1	1	2	0	0	0	3	2
163	XUM706.3	0	3	2	2	0	1	2	2	0	0	0	0	0	0

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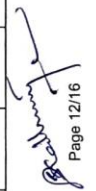
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164	XUM706.4	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
165	XUM706.5	3	2	3	3	3	3	0	2	2	0	0	0	0	0	0	3	2	2
166	XME707.1	2	3	0	2	2	1	1	0	0	1	0	0	0	1	3	0	0	0
167	XME707.2	2	3	0	2	2	1	1	0	0	0	0	0	0	1	3	0	0	0
168	XME707.3	2	3	0	2	2	1	1	0	0	1	0	0	0	1	3	0	0	0
169	XME707.4	2	3	2	1	2	1	1	0	0	1	0	0	0	1	3	0	0	0
170	XME707.5	2	3	0	2	2	1	1	0	0	0	0	0	0	1	3	0	0	0
171	XME708.1	1	3	3	2	2	2	1	2	3	1	1	2	3	2	2	2	2	2
172	XME708.2	1	3	2	2	2	2	1	0	3	1	1	2	3	2	2	2	2	2
173	XME708.3	1	3	3	2	2	2	1	2	3	1	1	2	3	2	2	2	2	2
174	XME708.4	1	3	3	2	2	2	1	2	3	1	1	2	3	2	2	2	2	2
175	XME708.5	1	3	3	2	2	2	1	2	3	1	1	2	3	2	2	2	2	2
176	XME709.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
177	XME709.2	0	0	0	0	0	0	0	1	3	0	0	1	0	0	0	0	0	0
178	XME709.3	0	0	0	0	0	0	0	0	0	3	1	3	1	0	0	0	0	0


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179	XME709.4	0	1	2	1	3	0	0	0	0	0	0	0	3	0	0
180	XME709.5	0	0	0	3	0	0	0	0	3	0	0	0	1	0	0
181	XME804.1	1	3	3	2	2	1	2	3	1	1	2	3	2	2	2
182	XME804.2	1	3	3	2	2	1	2	3	1	1	2	3	2	2	2
183	XME804.3	1	3	3	2	2	1	2	3	1	1	2	2	2	2	2
184	XME804.4	1	3	3	2	2	1	2	3	1	1	2	3	2	2	2
185	XME804.5	1	3	3	2	2	1	2	3	1	1	2	3	2	2	2
186	XMEE20.1	2	0	1	0	0	3	0	2	0	2	3	3	3	3	0
187	XMEE20.2	2	3	3	2	3	2	0	3	2	2	3	3	3	3	0
188	XMEE20.3	3	3	3	3	3	3	1	2	1	2	2	2	2	3	0
189	XMEE20.4	3	2	3	3	3	3	0	2	2	2	3	3	3	3	0
190	XMEE20.5	0	2	2	0	0	1	0	1	1	2	0	0	3	3	0
191	XMEE21.1	1	0	2	3	1	2	2	1	2	2	3	2	3	3	0
192	XMEE21.2	1	0	1	2	2	2	2	1	1	2	2	2	2	3	0
193	XMEE21.3	1	0	1	2	1	1	2	1	1	2	2	2	2	3	0

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194	XMEE21.4	1	0	1	2	1	1	3	1	1	3	3	3	0
195	XMEE21.5	2	2	1	2	1	1	3	1	1	3	3	3	0
196	XMEE02.1	3	0	0	3	1	2	0	0	2	0	0	1	3
197	XMEE02.2	3	0	0	2	0	1	0	0	1	0	0	1	3
198	XMEE02.3	1	0	0	0	0	1	0	0	1	0	0	0	3
199	XMEE02.4	3	0	0	3	0	2	0	0	2	0	1	1	3
200	XMEE02.5	3	0	0	1	0	2	0	0	1	0	0	0	3
201	XMEE22.1	1	0	2	3	1	2	2	1	2	2	3	2	0
202	XMEE22.2	1	0	1	2	2	2	2	1	1	2	2	2	0
203	XMEE22.3	1	0	1	2	1	1	2	1	1	2	2	2	0
204	XMEE22.4	1	0	1	2	1	1	3	1	1	3	3	2	0
205	XMEE22.5	2	2	1	2	1	1	3	1	1	3	3	2	0
206	XMEE04.1	3	1	0	0	0	1	0	1	1	0	1	1	3
207	XMEE04.2	3	3	1	0	1	1	0	2	3	1	3	0	3
208	XMEE04.3	3	3	2	1	1	1	0	2	3	2	3	0	3

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209	XMEE04.4	3	3	3	0	2	2	1	3	3	2	3	3	0	3
210	XMEE04.5	1	1	1	0	0	0	0	1	1	1	2	2	0	3
211	XMEE16.1	1	1	2	1	1	2	1	1	1	1	1	1	3	0
212	XMEE16.2	1	1	2	1	1	2	1	1	1	1	1	1	3	0
213	XMEE16.3	1	1	2	1	1	2	1	1	1	1	1	1	3	0
214	XMEE16.4	1	1	2	1	1	2	1	1	1	1	1	1	3	0
215	XMEE16.5	2	1	2	1	1	2	2	1	1	1	2	1	3	0
216	XMEE17.1	1	1	2	1	1	2	1	1	1	1	1	1	3	0
217	XMEE17.2	1	1	2	1	1	2	1	1	1	1	1	1	3	0
218	XMEE17.3	1	1	2	1	1	2	1	1	1	1	1	1	3	0
219	XMEE17.4	1	1	2	1	1	2	1	1	1	1	1	1	3	0
220	XMEE17.5	2	1	2	1	1	2	2	1	1	1	2	1	3	0
221	XMEE19.1	2	2	1	1	0	0	1	1	1	1	1	1	1	0
222	XMEE19.2	2	2	1	1	0	0	1	1	1	1	1	1	1	0
223	XMEE19.3	2	2	1	1	1	1	1	1	1	1	1	1	1	0

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Programme Articulation Matrix

Programme: 015
Batch: 2019-2023
Academic Year: 2022-2023

224	XMEE19.4	2	2	1	1	0	0	1	1	1	1	1	1	0	
225	XMEE19.5	2	2	1	1	0	0	1	1	1	1	1	1	0	
226	XMAOE3.1	3	1	0	0	0	0	0	0	1	0	0	0	0	
227	XMAOE3.2	3	1	0	0	0	0	0	0	1	0	0	0	0	
228	XMAOE3.3	3	1	0	0	0	0	1	0	1	0	0	0	0	
229	XMAOE3.4	3	1	0	1	0	0	1	0	1	0	0	0	0	
230	XMAOE3.5	3	1	0	1	0	0	1	0	1	0	0	0	0	
Average		2.1	1.5	1.2	1.2	1.2	0.7	0.8	1	1.1	0.9	1.1	1.5	1.2	0.6

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Course Outcome Attainment

Programme: 301

AcademicYear: 2022-2023

Batch: 2021-2023

Section: A

Course Code	Course Name	CO	Target %	Level	Attained
YRE101	Solar Energy Systems	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
YRE102	Wind Energy, Tidal Energy and OTEC	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
YRE103	Proces Modelling and Simulation in Energy Systems	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
YRE106	Solar Energy Lab	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
YRM107	Research Methodology and IPR	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
YRE109	MAT and SCI Lab	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes

Course Outcome Attainment

Programme: 301

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Batch: 2021-2023

Section: A

Course Code	Course Name	CO	Target %	Level	Attained
YRE201	Bio energy systems	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
YRE202	Computational Fluid Dynamics	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
YRE203	Electrical Energy Technology	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
YRE206	Bio Energy and CFD lab	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
YRE207	PROJECT WORK	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
YRE301	Project Phase - I	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes





Course Outcome Attainment

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Section: A

Course Code	Course Name	CO	Target %	Level	Attained
YRE302A	Energy Audit and Management	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	2	No
		CO4	60	0	No
		CO5	60	3	Yes
YRE401	Project Phase – II	CO1	60	2	No
		CO2	60	2	No
		CO3	60	2	No
		CO4	60	3	Yes
		CO5	60	3	Yes
YEGOE1	English for Research Paper Writing	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes



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Overall PO Attainment Report

Programme: 301
 Batch: 2021-2023
 Academic Year: 2022-2023
 Section: A

S.No.	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7
1	YRE101	3	3	2	2	3	2	3
2	YRE102	3	3	2	2.2	2.8	2.8	3
3	YRE103	3	3	2	2	3	2	3
4	YRE106	2	3	3	1	2	2	3
5	YRM107	0	0	0	1.4	3	3	3
6	YRE109	3	3	3	1	0	2	2
7	YRE201	2.2	1.8	1.6	1.6	2	1.6	2.6
8	YRE202	3	3	2	2	3	2	3
9	YRE203	3	1.8	3	2.6	2	1	2.6
10	YRE206	3	3	2	2	3	1	1
11	YRE207	3	2.4	2.6	2.6	1	2	1.4
12	YRE301	2	2	1	1	1	1	1
13	YRE302A	1.3	1.5	1.3	1.9	1.7	1.7	1.3

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Overall PO Attainment Report

Programme: 301 Academic Year: 2022-2023

Batch: 2021-2023 Section: A

14	YRE401	2.1	1.6	1.8	1.5	1.4	0.8	0.8
15	YEGOE1	0	0	3	1.4	2.4	2.8	2.8

Average Attained	2.2	2.1	2	1.7	2.1	1.8	2.2
Direct Attainment(80%)	2.9	2.9	2.9	2.8	3	2.8	2.9

Prog. Exit Survey(10%)	3	3	3	3	3	3	3
Alumni Survey(10%)	3	3	3	3	3	3	3

Overall Attainment	2.9	2.9	2.9	2.8	3	2.8	2.9
Attained	No	No	No	No	Yes	No	No



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Programme Articulation Matrix

Academic Year: 2022-2023

Programme: 301

Batch: 2021-2023

S.No.	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7
1	YRE101.1	3	3	2	2	3	2	3
2	YRE101.2	3	3	2	2	3	2	3
3	YRE101.3	3	3	2	2	3	2	3
4	YRE101.4	3	3	2	2	3	2	3
5	YRE101.5	3	3	2	2	3	2	3
6	YRE102.1	3	3	2	2	3	3	3
7	YRE102.2	3	3	2	2	3	3	3
8	YRE102.3	3	3	2	2	3	3	3
9	YRE102.4	3	3	2	2	3	3	3
10	YRE102.5	3	3	2	3	2	2	3
11	YRE103.1	3	3	2	2	3	2	3
12	YRE103.2	3	3	2	2	3	2	3
13	YRE103.3	3	3	2	2	3	2	3



Programme Articulation Matrix

Programme: 301 Academic Year: 2022-2023

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14	YRE103.4	3	3	2	2	3	2	3	2	3
15	YRE103.5	3	3	2	2	3	2	3	2	3
16	YRE106.1	2	3	3	1	2	2	3	2	3
17	YRE106.2	2	3	3	1	2	2	3	2	3
18	YRE106.3	2	3	3	1	2	2	3	2	3
19	YRE106.4	2	3	3	1	2	2	3	2	3
20	YRE106.5	2	3	3	1	2	2	3	2	3
21	YRM107.1	0	0	0	1	3	3	3	3	3
22	YRM107.2	0	0	0	1	3	3	3	3	3
23	YRM107.3	0	0	0	1	3	3	3	3	3
24	YRM107.4	0	0	0	1	3	3	3	3	3
25	YRM107.5	0	0	0	3	3	3	3	3	3
26	YRE109.1	3	3	3	1	0	2	2	2	2
27	YRE109.2	3	3	3	1	0	2	2	2	2
28	YRE109.3	3	3	3	1	0	2	2	2	2

Programme Articulation Matrix

29	YRE109.4	3	3	3	1	0	2	2
30	YRE109.5	3	3	3	1	0	2	2
31	YRE201.1	3	2	1	2	1	2	1
32	YRE201.2	2	1	1	3	3	3	3
33	YRE201.3	2	2	2	1	2	1	3
34	YRE201.4	2	2	2	1	2	1	3
35	YRE201.5	2	2	2	1	2	1	3
36	YRE202.1	3	3	2	2	3	2	3
37	YRE202.2	3	3	2	2	3	2	3
38	YRE202.3	3	3	2	2	3	2	3
39	YRE202.4	3	3	2	2	3	2	3
40	YRE202.5	3	3	2	2	3	2	3
41	YRE203.1	3	2	3	3	2	1	3
42	YRE203.2	3	2	3	2	2	1	2
43	YRE203.3	3	2	3	2	2	1	2

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Programme Articulation Matrix

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44	YRE203.4	3	2	3	3	2	1	3
45	YRE203.5	3	1	3	3	2	1	3
46	YRE206.1	3	3	2	2	3	1	1
47	YRE206.2	3	3	2	2	3	1	1
48	YRE206.3	3	3	2	2	3	1	1
49	YRE206.4	3	3	2	2	3	1	1
50	YRE206.5	3	3	2	2	3	1	1
51	YRE207.1	3	1	3	3	1	2	1
52	YRE207.2	3	3	2	2	1	2	1
53	YRE207.3	3	3	2	2	1	2	1
54	YRE207.4	3	3	3	3	1	2	3
55	YRE207.5	3	2	3	3	1	2	1
56	YRE301.1	2	2	1	1	1	1	1
57	YRE301.2	2	2	1	1	1	1	1
58	YRE301.3	2	2	1	1	1	1	1

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Programme Articulation Matrix

Programme: 301

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Batch: 2021-2023

59	YRE301.4	2	2	1	1	1	1	1	1	1	1
60	YRE301.5	2	2	1	1	1	1	1	1	1	1
61	YRE302A.1	2	3	3	3	2	3	2	3	2	2
62	YRE302A.2	2	2	1	3	2	2	2	1	1	1
63	YRE302A.3	2	2	1	2	2	2	2	2	1	1
64	YRE302A.4	1	1	2	2	2	3	3	3	3	3
65	YRE302A.5	1	1	2	2	2	3	3	3	3	3
66	YRE401.1	2	1	2	1	1	1	1	1	1	1
67	YRE401.2	3	2	2	2	1	1	1	1	1	1
68	YRE401.3	2	3	2	1	1	1	1	1	1	1
69	YRE401.4	3	3	2	2	3	1	1	1	1	1
70	YRE401.5	3	1	3	3	2	1	1	1	1	1
71	YEGOE1.1	0	0	3	1	3	2	2	2	2	2
72	YEGOE1.2	0	0	3	1	2	3	3	3	3	3
73	YEGOE1.3	0	0	3	1	2	3	3	3	3	3

Programme Articulation Matrix

Programme: 301 Academic Year: 2022-2023

Batch: 2021-2023

74	YEGOE1.4	0	0	3	1	3	3	3
75	YEGOE1.5	0	0	3	3	2	3	3
Average		2.3	2.2	2.1	1.8	2.1	1.9	2.3



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