

DEPARTMENT OF BIOTECHNOLOGY

Programme Code	Programme Name
101	B. Tech Biotechnology

Course Outcome Attainment


Programme: 101

Academic Year: 2023-2024


Batch: 2020-2024

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
XES102	Environmental Sciences	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBE103	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
XAP104	Applied Physics for Engineers	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XEG105	Engineering Graphics	CO1	60	3	Yes
		CO2	60	2	No
		CO3	60	2	No
		CO4	60	3	Yes
		CO5	60	2	No
XMA201	Calculus, Ordinary Differential Equations and Complex Variables	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: 101

Academic Year: 2023-2024


Batch: 2020-2024

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Course Code	Course Name	CO	Target %	Level	Attained
XCP202	Programming for Problem Solving	CO1	60	3	Yes
		CO2	60	2	No
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XGS203	English	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XAC204	Applied Chemistry for Engineers	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XWP205	Workshop Practices	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XPS301	Probability Statistics	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT302	Material Energy Balance	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

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Section: A

Course Code	Course Name	CO	Target %	Level	Attained
XBT303	Biochemistry	CO1	60	3	Yes
		CO2	60	2	No
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT304	Microbiology	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	0	No
XBT305	Unit Operations	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XUM306	Human Ethics	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT307	In plant training I	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XES401	Material Science	CO1	60	2	No
		CO2	60	1	No
		CO3	60	2	No
		CO4	60	2	No
		CO5	60	3	Yes

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Course Outcome Attainment

Programme: 101 Academic Year: 2023-2024
 Batch: 2020-2024 Section: A

Course Code	Course Name	CO	Target %	Level	Attained
XBT402	Genetics	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT403	Cell Biology	CO1	60	1	No
		CO2	60	1	No
		CO3	60	3	Yes
		CO4	60	0	No
		CO5	60	0	No
XBT404	Bioenergetics and Metabolism	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT405	Chemical Engineering Thermodynamics	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XUM406	Entrepreneurship Development	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XUM407	Constitution of India	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

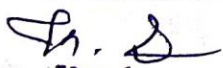
Programme: 101


Academic Year: 2023-2024

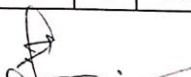
Batch: 2020-2024

Section: A

Course Code	Course Name	CO	Target %	Level	Attained
XBT501	Bioinstrumentation	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT502	Molecular Biology	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT503	Bioprocess Engineering	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT504A	Plant Biotechnology	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XUM506	Employability Skills and report writing	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XUM507	Essence of Indian Traditional Knowledge	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes


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Batch: 2020-2024


Section: A

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XBT508	In-Plant 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	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT602	Bioreactor Design	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT603	Recombinant DNA Technology	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT604	Immunology	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT605A	Animal Biotechnology	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	0	No
		CO5	60	0	No


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Course Outcome Attainment

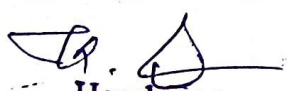
Programme: 101


Academic Year: 2023-2024


Batch: 2020-2024

Section: A

Course Code	Course Name	CO	Target %	Level	Attained
XBT701C	Mass Transfer Fundamentals	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT702	Bioinformatics & Computational Biology	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT703	Downstream Processing	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT704A	Cancer Biology	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XUM706	Cyber Security	CO1	60	3	Yes
		CO2	60	3	Yes
		CO3	60	3	Yes
		CO4	60	3	Yes
		CO5	60	3	Yes
XBT707	In-Plant Training - III	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: 101

Academic Year: 2023-2024

Batch: 2020-2024

Section: A

Course Code	Course Name	CO	Target %	Level	Attained
XBT801	Project Work	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

2023-2024

Academic Year:

101

Programme:

Section: A

2020-2024

Batch:

S.No.	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	XMA101	1	2	0	0	1	0	0	0	0	1	0	2	1.4	0
2	XES102	1.2	1.2	1.2	1.2	1	1.2	1	1.2	1.4	1	1.2	1.2	0.6	0
3	XBE103	1.8	1.8	0.6	0.4	1	0.6	0.4	0.4	0.4	0.4	0.4	0	2.4	0
4	XAP104	1.2	1.2	1.2	1.2	1.2	0	0	0	1.2	0	0	0	0	0
5	XEG105	1.9	1.2	1.5	1.1	1.1	1.3	0.8	1.6	0.2	1.3	0.1	0	0.8	0
6	XMA201	1	1	0	1	0.8	0	0	0	0	0	0	0	1	0
7	XCP202	0.8	1.5	1.7	0.9	1.9	0	0	0.9	0	1.7	1.5	1.6	0.2	0
8	XGS203	1.4	0	0	1	0	0	1.2	0	1.2	0	0	0	0	0
9	XAC204	3	2	3	2	1	2	1	2	1	2	0	0	0	0
10	XWP205	2.2	1.4	1.6	1.2	1.6	0.4	0.6	2	0.6	0.4	0.6	0	0	0
11	XPS301	1	1	1.2	1	0.8	1	0.8	0.4	1.2	1	0.8	0	0	0
12	XBT302	2	2	2	2	1	0	1	0	0	0	0	0	1	1
13	XBT303	1.1	1.1	1.1	1.1	0.9	0	0	0.9	0.9	0.7	1.1	1.1	0.9	1.1

Page 1/4

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Overall PO Attainment Report

Programme: 101

AcademicYear: 2023-2024

Batch: 2020-2024

Section: A

	1.4	1	0.4	0.4	0	0.4	0.4	0	0	0	0	0	0	0	0.8	0.8
14	XBT304	1.4	1	0.4	0.4	0	0.4	0	0	0	0	0	0	0	0	0.8
15	XBT305	1.2	1.2	1.2	1.2	1	1.2	1	0	0	0	0	1.2	1.2	1	1
16	XUM306	0	0	0	0	0	0	0	2	1.8	1.6	0	0	0	0	0
17	XBT307	1.2	1.2	1.2	1.2	0	1.2	1	1	1	1	1.2	1.2	1	1	1
18	XES401	0.7	0.7	0.8	0.8	0	0	0	0	1	0	0.8	0.8	0.7	0.7	0.7
19	XBT402	0	0	1	0	0	0	0	0	0	0	0	0	0.4	1.2	1.2
20	XBT403	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.3
21	XBT404	1.2	1.2	1.2	1.2	0	1	0	0	1.2	1.4	1	1.2	1.2	1	1.2
22	XBT405	1.2	1.2	1.2	1.2	1	1.2	1	1.2	1.4	0	1.2	1.2	1.2	1	2
23	XUM406	1.2	1.2	1.2	1.2	1	1.2	1	1.2	1.4	0.8	1.2	1.2	1.2	1	1.8
24	XUM407	1.2	1.2	1.2	1.2	1	1.2	1	1.2	1.4	0	0	0	0	0	0
25	XBT501	2.8	2.4	2.2	1.4	0	0	0.8	0	0	0	0	0	0.8	0	1
26	XBT502	1	1	2	0	1	0	0	1	1	1	1	1	1.6	1.8	2.2
27	XBT503	1.6	2.2	1.6	1.4	0.4	0	0.4	0	0.8	0	0	1	1	1.2	1.2
28	XUM506	1.4	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0

Page 2/4

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Overall PO Attainment Report

Academic Year: 2023-2024

101

Programme:

Section: A

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29	XUM507	3	2.8	1.8	1.6	0.6	0.4	1.6	0.2	0.2	0	2	2.2	2.4	2.2
30	XBT508	0.4	0.2	0.4	0.8	0.6	0	0.2	0.6	0.6	0.8	0.8	0.2	1.2	1.2
31	XUM601	1.6	1.8	1.4	1	1.6	1.8	1.4	1	1.6	1.8	1.4	1	1.4	1.6
32	XBT602	1.2	1.4	1.6	0.4	0	0	0	0	0.2	0	0.2	1.8	1.6	1.2
33	XBT603	2.6	0.2	2.8	1.4	2.4	0.8	0.6	1.2	0.6	0.8	0.8	0	0	0
34	XBT604	2.8	1.6	1.4	0.6	0.6	0.6	0.6	0	0	0	0.6	0	1.2	0
35	XBT702	0.4	1.8	2	0.6	2.6	0	0	0	0.4	0	0.4	0	0	0
36	XBT703	2	1.8	2	1.4	0	0.8	0.8	0	1	0	0.4	1	1.2	1.4
37	XUM706	2.2	2.2	1.4	1.4	2.2	2.6	1	2	1.2	1	1	3	0	0
38	XBT707	0.4	0.2	0.4	0.8	0.6	0	0.2	0.6	0.6	0.2	0.8	0	1.2	1
39	XBT801	1.6	1.6	0.6	1.2	1	0.6	0.6	0.6	0.4	0.6	0.4	0.8	1	1

Average Attained	1.4	1.2	1.2	1.2	0.9	0.8	0.5	0.6	0.6	0.7	0.5	0.6	0.7	0.8	0.7
Attainment Percentage	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Direct Attainment(80%)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Page 3/4

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Overall PO Attainment Report


Programme: 101 Academic Year: 2023-2024
 Batch: 2020-2024 Section: A

Programme Exit Survey(10%)	2.7	2.6	2.7	2.6	2.6	2.5	2.6	2.6	2.7	2.7	2.6	2.7	2.7	2.6	2.7
Alumni Survey(10%)	2.6	2.7	2.6	2.6	2.7	2.6	2.6	2.6	2.7	2.7	2.6	2.7	2.7	2.6	2.7

Overall Attainment	2.93	2.93	2.92	2.93	2.91	2.92	2.93	2.94	2.94	2.93	2.94	2.93	2.94	2.93	2.94
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Programme Articulation Matrix

Programme: 101

Academic Year: 2023-2024

Batch: 2020-2024

S.No.	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	XMA101.1	1	2	0	0	1	0	0	0	0	1	0	2	1	0
2	XMA101.2	1	2	0	0	1	0	0	0	0	1	0	2	2	0
3	XMA101.3	1	2	0	0	1	0	0	0	0	1	0	2	2	0
4	XMA101.4	1	2	0	0	1	0	0	0	0	1	0	2	2	0
5	XMA101.5	1	2	0	0	1	0	0	0	0	1	0	2	1	0
6	XES102.1	1	1	1	2	1	1	1	1	1	1	1	1	1	0
7	XES102.2	2	2	1	1	1	1	1	2	1	1	1	1	0	0
8	XES102.3	1	1	2	1	1	2	1	1	2	1	2	1	1	0
9	XES102.4	1	1	1	1	1	1	1	1	1	1	1	2	0	0
10	XES102.5	1	1	1	1	1	1	1	1	2	1	1	1	1	0
11	XBE103.1	2	2	0	0	1	0	0	0	0	0	0	0	2	0
12	XBE103.2	2	2	0	0	1	0	0	0	0	0	0	0	2	0
13	XBE103.3	2	2	2	1	2	2	1	1	1	1	1	0	3	0

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Programme Articulation Matrix

Programme: 101
Batch: 2020-2024
Academic Year: 2023-2024

Sl. No.	Course Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28						
14	XBE103.4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0				
15	XBE103.5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
16	XAP104.1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0			
17	XAP104.2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0		
18	XAP104.3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0		
19	XAP104.4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0		
20	XAP104.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0		
21	XEG105.1	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	0	0		
22	XEG105.2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	
23	XEG105.3	3	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	0	0
24	XEG105.4	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	0	0	0	0
25	XEG105.5	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	0	0
26	XMA201.1	2	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	0	0
27	XMA201.2	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	0	0	0
28	XMA201.3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Programme Articulation Matrix

Programme: 101

Batch: 2020-2024

Academic Year: 2023-2024

29	XMA201.4	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
30	XMA201.5	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	XCP202.1	1	2	2	1	2	2	0	0	1	0	2	2	2	1	0	0	0	0
32	XCP202.2	0	2	2	1	2	2	0	0	1	0	1	2	2	0	0	0	0	0
33	XCP202.3	1	0	1	1	2	2	0	0	1	0	2	2	2	0	0	0	0	0
34	XCP202.4	1	2	2	1	2	2	0	0	1	0	2	2	2	0	0	0	0	0
35	XCP202.5	1	2	2	1	2	2	0	0	1	0	2	2	2	0	0	0	0	0
36	XAC204.1	3	2	3	2	1	2	2	1	2	1	2	2	2	0	0	0	0	0
37	XAC204.2	1	1	1	2	0	2	2	1	2	0	2	1	0	0	0	0	0	0
38	XAC204.3	3	0	1	0	1	0	0	1	2	0	0	0	0	0	0	0	0	0
39	XAC204.4	3	2	3	2	3	2	2	1	2	2	2	2	0	0	0	0	0	0
40	XAC204.5	1	2	0	0	1	2	2	1	2	0	2	2	0	0	0	0	0	0
41	XWP205.1	3	2	3	2	3	2	2	3	2	3	2	3	2	0	0	0	0	0
42	XWP205.2	1	1	1	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
43	XWP205.3	3	0	1	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0

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Page 3/13

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Programme Articulation Matrix

Programme: **101** Academic Year: **2023-2024**

Batch: **2020-2024**

44	XWP205.4	3	2	3	2	3	0	0	2	0	0	0	0	0	0	0
45	XWP205.5	1	2	0	0	1	0	0	2	0	0	0	0	0	0	0
46	XPS301.1	1	1	1	2	1	1	1	0	1	1	1	0	0	0	0
47	XPS301.2	2	2	1	1	1	1	1	0	0	1	1	0	0	0	0
48	XPS301.3	1	0	2	1	0	2	1	0	2	1	0	0	0	0	0
49	XPS301.4	0	1	1	0	1	0	0	1	1	1	1	0	0	0	0
50	XPS301.5	1	1	1	1	1	1	1	1	2	1	1	0	0	0	0
51	XBT302.1	2	2	2	2	1	0	1	0	0	0	0	0	1	1	1
52	XBT302.2	2	2	2	2	2	1	0	1	0	0	0	0	0	1	1
53	XBT302.3	2	2	2	2	2	1	0	1	0	0	0	0	0	1	1
54	XBT302.4	2	2	2	2	2	1	0	1	0	0	0	0	0	1	1
55	XBT302.5	2	2	2	2	2	1	0	1	0	0	0	0	0	1	1
56	XBT303.1	1	1	1	2	1	0	0	1	1	1	1	1	1	1	1
57	XBT303.2	2	2	1	1	1	1	0	1	1	1	1	1	1	1	1
58	XBT303.3	1	1	2	1	1	0	0	1	1	1	0	2	2	1	2

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Programme Articulation Matrix

Programme: 101
Batch: 2020-2024

Academic Year: 2023-2024

59	XBT303.4	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
60	XBT303.5	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
61	XBT304.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	XBT304.2	2	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
63	XBT304.3	2	0	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0
64	XBT304.4	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
65	XBT304.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	XBT305.1	1	1	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
67	XBT305.2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
68	XBT305.3	1	1	2	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0
69	XBT305.4	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
70	XBT305.5	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
71	XUM306.1	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2
72	XUM306.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	XUM306.3	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2

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Faculty of Engineering and Technology ... Page 5/13
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Programme Articulation Matrix

Programme: 101

Academic Year: 2023-2024

Batch: 2020-2024

74	XUM306.4	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0
75	XUM306.5	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0
76	XBT307.1	1	1	1	2	0	1	1	1	1	1	1	1	1	1	1
77	XBT307.2	2	2	1	1	0	1	1	2	1	1	1	1	1	1	1
78	XBT307.3	1	1	2	1	0	2	1	0	0	1	2	1	1	1	1
79	XBT307.4	1	1	1	1	0	1	1	1	1	1	1	1	2	1	1
80	XBT307.5	1	1	1	1	0	1	1	1	1	2	1	1	1	1	1
81	XES401.1	1	1	1	1	2	0	0	0	0	1	0	1	1	1	1
82	XES401.2	2	2	1	1	0	0	0	0	0	1	0	1	1	1	1
83	XES401.3	1	1	2	1	0	0	0	0	0	2	0	2	1	1	1
84	XES401.4	1	1	1	1	0	0	0	0	0	1	0	1	2	1	1
85	XES401.5	1	1	1	1	0	0	0	0	0	2	0	1	1	1	1
86	XBT402.1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
87	XBT402.2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
88	XBT402.3	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2

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DEAN
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Programme Articulation Matrix

Programme: 101

Academic Year: 2023-2024

Batch: 2020-2024

89	XBT402.4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
90	XBT402.5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
91	XBT403.1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
92	XBT403.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
93	XBT403.3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
94	XBT403.4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
95	XBT403.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	XBT404.1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	1	1	1	1
97	XBT404.2	2	2	1	0	1	0	1	0	0	2	1	1	1	1	1	1	1	1
98	XBT404.3	1	1	2	0	1	0	1	0	0	1	2	1	1	2	1	1	1	1
99	XBT404.4	1	1	1	0	1	0	1	0	0	1	1	1	1	1	1	1	1	1
100	XBT404.5	1	1	1	0	1	0	1	0	0	1	1	1	1	1	1	1	1	1
101	XBT405.1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2
102	XBT405.2	2	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2
103	XBT405.3	1	1	2	1	1	1	1	2	1	1	2	0	0	2	1	1	1	2

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Programme Articulation Matrix

Programme: 101

Academic Year: 2023-2024

Batch: 2020-2024



104	XBT405.4	1	1	1	1	1	1	1	1	1	1	0	1	2	1	1	2
105	XBT405.5	1	1	1	1	1	1	1	1	1	1	2	0	1	1	1	2
106	XUM406.1	1	1	1	2	1	1	1	1	1	1	1	0	1	1	1	2
107	XUM406.2	2	2	1	1	1	1	1	1	2	1	1	1	1	1	1	2
108	XUM406.3	1	1	2	1	1	1	2	1	1	1	2	1	2	1	1	2
109	XUM406.4	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2
110	XUM406.5	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2
111	XUM407.1	1	1	1	2	1	1	1	1	1	1	1	2	1	1	1	1
112	XUM407.2	2	2	1	1	1	1	1	1	1	2	1	1	0	0	0	
113	XUM407.3	1	1	2	1	1	2	1	1	1	1	2	0	0	0	0	
114	XUM407.4	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	
115	XUM407.5	1	1	1	1	1	1	1	1	1	1	2	0	0	0	0	
116	XBT501.2	3	3	2	2	0	0	1	1	0	1	0	0	0	0	0	1
117	XBT501.3	3	2	2	1	0	0	1	0	1	0	0	0	0	0	0	1
118	XBT501.4	2	3	2	2	0	0	0	0	0	0	0	0	0	1	0	1

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Programme Articulation Matrix

Academic Year: **2023-2024**

Programme: **101**
Batch: **2020-2024**

134	XUM506.4	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	XUM506.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136	XUM507.1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	XUM507.2	3	3	2	2	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	XUM507.3	3	3	2	2	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	XUM507.4	3	3	2	2	3	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	XUM507.5	3	3	3	3	1	0	1	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
141	XBT508.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	XBT508.2	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	XBT508.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144	XBT508.4	0	1	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	XBT508.5	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146	XUM601.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
147	XUM601.2	2	2	1	1	2	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	1	1	1
148	XUM601.3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

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Programme Articulation Matrix

Programme: 101 AcademicYear: 2023-2024

Batch: 2020-2024

149	XUM601.4	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1	
150	XUM601.5	2	3	2	1	2	3	2	1	2	3	2	1	2	3	2	1	2	3
151	XBT602.1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
152	XBT602.2	2	3	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0
153	XBT602.3	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	2	3	1
154	XBT602.4	0	1	2	3	1	0	0	0	0	0	0	0	0	0	0	3	1	2
155	XBT602.5	1	2	3	1	0	0	0	0	0	0	0	0	0	0	0	2	1	3
156	XBT603.1	1	1	2	1	1	1	1	0	0	0	1	0	1	0	1	0	0	0
157	XBT603.2	3	0	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0
158	XBT603.3	3	0	3	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0
159	XBT603.4	3	0	3	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0
160	XBT603.5	3	0	3	2	3	2	3	0	2	3	0	1	2	0	0	0	0	0
161	XBT604.1	3	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
162	XBT604.2	3	2	2	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0
163	XBT604.3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Programme Articulation Matrix

Programme: 101

Academic Year: 2023-2024

Batch: 2020-2024

164	XBT604.4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0
165	XBT604.5	3	2	2	1	1	1	0	0	0	0	0	0	1	0	2	0	0
166	XBT702.1	0	0	1	0	2	0	0	0	2	0	0	0	0	0	0	0	0
167	XBT702.2	0	2	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0
168	XBT702.3	0	2	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0
169	XBT702.4	1	3	3	1	3	0	0	0	0	0	0	0	0	0	0	0	0
170	XBT702.5	1	2	3	0	3	0	0	0	0	0	0	0	2	0	0	0	0
171	XBT703.1	2	0	2	1	0	1	1	0	1	0	0	0	0	0	0	0	1
172	XBT703.2	2	3	3	1	0	1	0	0	1	0	0	0	0	0	1	1	1
173	XBT703.3	2	3	1	2	0	0	0	0	1	0	0	0	0	0	1	1	2
174	XBT703.4	2	1	2	2	0	0	2	0	1	0	0	0	0	0	1	2	1
175	XBT703.5	2	2	2	1	0	2	1	0	1	0	0	0	2	2	2	2	2
176	XUM706.1	2	2	1	1	2	3	1	2	1	1	1	1	1	1	3	0	0
177	XUM706.2	2	2	2	2	1	2	2	1	2	1	2	1	1	1	3	0	0
178	XUM706.3	2	2	1	1	3	2	2	1	2	1	2	1	1	1	3	0	0

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Programme Articulation Matrix

Programme: 101 Academic Year: 2023-2024

Batch: 2020-2024

	2	1	2	3	1	2	1	2	1	1	2	1	1	1	3	0	0
179	XUM706.4	2	1	2	3	1	2	1	2	1	2	1	1	1	3	0	0
180	XUM706.5	3	2	3	3	1	2	2	2	1	2	2	1	1	3	0	0
181	XBT707.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
182	XBT707.2	0	0	0	0	0	0	0	0	1	3	0	0	0	0	1	0
183	XBT707.3	0	0	0	0	0	0	0	0	0	0	3	1	3	0	3	3
184	XBT707.4	0	1	2	1	3	0	0	0	0	0	0	0	0	0	1	1
185	XBT707.5	0	0	0	3	0	0	0	0	0	0	0	0	1	0	1	1
186	XBT801.1	3	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1
187	XBT801.2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1
188	XBT801.3	1	1	1	2	2	1	1	1	1	1	0	0	0	0	1	1
189	XBT801.4	1	1	2	2	1	2	1	1	1	1	0	0	0	0	1	1
190	XBT801.5	1	1	1	1	0	1	0	0	0	0	2	3	2	3	1	1
	Average	1.4	1.3	1.2	0.9	0.9	0.9	0.5	0.5	0.5	0.7	0.6	0.5	0.6	0.7	0.8	0.7

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