

University of Mumbai

List of Vertical 3 Open Elective for Engineering Branches

Sr. No.	Title of Paper	Name of the BOS
1	Wonders of Physics – I	B.Sc. (Physics)
2	Wonders of Physics – II	B.Sc. (Physics)
3	Chemistry in Daily Life	B.Sc. (Chemistry)
4	Medicines in Every Day Life	B.Sc. (Chemistry)
5	Quantitative Techniques – I (OE)	B.Sc. (Mathematics)
6	Logic and Data Interpretation – I (OE)	B.Sc. (Mathematics)
7	Financial Mathematics – I (OE)	B.Sc. (Mathematics)
8	Introduction to Basic Statistics-I	B.Sc. (Statistics)
9	Introduction to Social Statistics	B.Sc. (Statistics)
10	Introduction to Business Statistics-I	B.Sc. (Statistics)
11	Optimization Techniques-I	B.Sc. (Statistics)
12	Organic farming and Bio fertilizers (OE)	B.Sc. (Botany)
13	Plants in Everyday Life : A Botanical Exploration (OE)	B.Sc. (Botany)
14	Blood and Blood disorders	B.Sc. (Bio-Chemistry)
15	Basics of food and nutrition	B.Sc. (Bio-Chemistry)
16	Amazing Animals	B.Sc. (Zoology)
17	Wildlife documentation	B.Sc. (Zoology)
18	Microbes at Work	B.Sc. (Microbiology)
19	Model Organisms in Biology	B.Sc. (Life Science)
20	IPR and Entrepreneurship	B.Sc. (Life Science)
21	Nutrition, Life style diseases and their management	B.Sc. (Bio-Technology)
22	Wine Technology	B.Sc. (Bio-Technology)
23	Open-Source Technologies (OE)	B.Sc. (Computer Science)
24	Web Designing (OE)	B.Sc. (Computer Science)
25	IT_Fundamentals of Computers	B.Sc. (Information Technology)
26	IT_Google Workspace	B.Sc. (Information Technology)
27	Introduction to Botany	B.Sc. (Bio-analytical Science)
28	Plant physiology	B.Sc. (Bio-analytical Science)
29	DS_Excel for ata Analytics	B.Sc. (Data Science)
30	DS_Database Management System	B.Sc. (Data Science)
31	Energy Sources- I (OE)	B.Sc. (Physics)
32	Energy Sources- IIS (OE)	B.Sc. (Physics)
33	Food Safety and Hygiene	B.Sc. (Chemistry)
34	Chemistry in Cosmetics	B.Sc. (Chemistry)
35	Quantitative Techniques – II (OE)	B.Sc. (Mathematics)
36	Logic and Data Interpretation – II (OE)	B.Sc. (Mathematics)
37	Financial Mathematics – II (OE)	B.Sc. (Mathematics)
38	Introduction to Basic Statistics-II	B.Sc. (Statistics)

39	Introduction to Business Statistics-II	B.Sc. (Statistics)
40	Applied Statistics-I	B.Sc. (Statistics)
41	Business Mathematics and Statistics-I	B.Sc. (Statistics)
42	Optimization Techniques-II	B.Sc. (Statistics)
43	Herbal Cosmetics (OE)	B.Sc. (Botany)
44	Garden Designing and Nursery Management (OE)	B.Sc. (Botany)
45	Heart Health	B.Sc. (Bio-Chemistry)
46	Liver Health	B.Sc. (Bio-Chemistry)
47	Economic Zoology	B.Sc. (Zoology)
48	Environmental Science	B.Sc. (Zoology)
49	Nutrition, Health and Fitness	B.Sc. (Zoology)
50	Microbes in Food	B.Sc. (Microbiology)
51	Health and Wellness	B.Sc. (Life Science)
52	Clinical Research	B.Sc. (Life Science)
53	Food preservation and Food packaging	B.Sc. (Bio-Technology)
54	Biotechnology- Industry 4.0	B.Sc. (Bio-Technology)
55	Social Media Marketing (OE)	B.Sc. (Computer Science)
56	Advanced Excel (OE)	B.Sc. (Computer Science)
57	IT_ Data Analysis with Excel	B.Sc. (Information Technology)
58	IT_ Web Designing	B.Sc. (Information Technology)
59	Introduction to zoology	B.Sc. (Bio-analytical Science)
60	Animal cell Physiology	B.Sc. (Bio-analytical Science)
61	DS_ Data Privacy and Security	B.Sc. (Data Science)
62	DS_ Generative AI	B.Sc. (Data Science)
63	Basics of Food and Nutrition	Bio-Chemistry
64	Heart Health	Bio-Chemistry
65	Liver Health	Bio-Chemistry
66	Understanding Diabetes Mellitus	Bio-Chemistry
67	Microbes and Health	Microbiology
68	Microbes & Environment	Microbiology
69	Cyber & Digital Safety	Computer Science
70	Data Analytics	Computer Science
71	Wonders of Physics – I OR Wonders of Physics – II	Physics
72	Energy Sources – I OR Energy Sources – II	Physics
73	OE 5 Wildlife Conservation	Zoology
74	Botany of Perfumes	Botany
75	OE 6 Ecotourism	Zoology
76	Microgreens – Urban Superfood	Botany
77	Non-Conventional Energy Sources	Chemistry
78	Dairy Chemistry	Chemistry
79	Waste Management	Chemistry
80	Chemistry in Beverages	Chemistry

81	Quantitative Techniques-III OR Mathematics for Industry and Management – I (OE)	Mathematics
82	Introduction to UI/UX Design	Information Technology
83	Web Designing with Word Press	Information Technology
84	Data Visualization	Data Science
85	Introduction to AIML	Data Science
86	Biodiversity and conservation	Bio – Technology
87	Introduction to Social Statistics	B.A./B.Sc. Statistics
88	Introduction to Basic Statistics-I	B.A./B.Sc. Statistics
89	Optimization Techniques-I	B.A./B.Sc. Statistics
90	Astronomy and Space Missions – I	Physics
91	Astronomy and Space Missions- II	Physics
92	Quantitative Techniques – IV OR Mathematics for Industry and Management – II (OE)	Mathematics
93	Cyber Security	Information Technology
94	Digital Marketing	Information Technology
95	Apache Spark	Data Science
96	Tensorflow	Data Science
97	Ecosystem organization and anthropogenic impacts	Bio – Technology
98	Introduction to Basic Statistics-II	B.A./B.Sc. Statistics
99	Optimization Techniques-II	B.A./B.Sc. Statistics
100	Applied Statistics -I	B.A./B.Sc. Statistics
101	Physics in Sports – I	Physics
102	Physics in Sports – II	Physics
Faculty of Commerce		
1	Case Studies in Management	Bachelor of Management Studies
2	Marketing Mix -I	Bachelor of Management Studies
3	Leadership Management	Bachelor of Management Studies
4	Marketing Mix – II	Bachelor of Management Studies
5	Introduction to Commerce (OE)	B.Com (Commerce)
6	Entrepreneurship Management (OE)	B.Com (Commerce)
7	Open Elective in Accounting Paper: I	B.Com (Accountancy)
8	Open Elective in Accounting Paper II	B.Com (Accountancy)

9	a) Elementary Statistical Techniques for Economics OR b) Business Economics for Banking and Insurance OR c) Introduction of Economics to Demography	B.Com (Business Economics)
10	Introduction to Banking	B.Com (Business Management)
11	Introduction to Export Marketing Sem. I	B.Com (Business Management)
12	Marketing Mix I	B.Com. (Management Studies)
13	Case Studies in Management	B.Com. (Management Studies)
14	Open Elective in Accounting & Finance Paper – I	B. Com (Accounting and Finance) (BAF)
15	Open Elective in Accounting & Finance Paper – II	B. Com (Accounting and Finance) (BAF)
16	Basics of Fintech (2)	B. Com (Banking & Insurance) (BBI)
17	Credit Rating (2)	B. Com (Banking & Insurance) (BBI)
18	Introduction to Management (2)	B.Com. (Investment Management) (BIM)
19	Basics of Fintech (2)	B.Com. (Investment Management) (BIM)
20	Introduction To Financial Markets	B.Com. (Financial Markets) (BFM)
21	Managerial Skill Development	B. Com. (Transport Management) (BTM) Trade, Transport & Industry
22	Open Elective in Financial Management Paper- I	B. Com. (Financial Management) (BFM)
23	Open Elective in Financial Management Paper- II	B. Com. (Financial Management) (BFM)
24	Introduction to Marketing Service Marketing	B.Com. (Travel & Tourism)
25	Principles and Practices of Management	B.Com (Commerce)
26	Open Elective in Accounting Paper- III	B.Com (Accountancy)
27	Open Elective in Accounting Paper- IV	B.Com (Accountancy)
28	1) Elementary Mathematics for Economics OR 2) Business Economics for Investment Decision OR 3) Economics of Mass Media	B.Com (Business Economics)
29	Introduction to Insurance	B.Com (Business Management)
30	Introduction to Marketing	B.Com (Business Management)
31	Marketing Mix II	B.Com. (Management Studies)
32	Leadership management	B.Com. (Management Studies)
33	Open Elective in Accounting & Finance Paper – III	B. Com (Accounting and Finance) (BAF)

34	Open Elective in Accounting & Finance Paper – IV	B. Com (Accounting and Finance) (BAF)
35	Human Resource Management (2)	B. Com (Banking & Insurance) (BBI)
36	Non-Banking Financial Companies (2)	B. Com (Banking & Insurance) (BBI)
37	Innovative Financial Services (2)	B.Com. (Investment Management) (BIM)
38	Financial Institutions (2)	B.Com. (Investment Management) (BIM)
39	Basics Of Financial Services	B.Com. (Financial Markets) (BFM)
40	Tourism Management	B. Com (Transport Management) (BTM) Trade, Transport & Industry
41	Open Elective in Financial Management Paper- III	B. Com (Financial Management) (BFM)
42	Open Elective in Financial Management Paper- IV	B. Com (Financial Management) (BFM)
43	Brand Management Consumer Behavior	B.Com. (Travel & Tourism)
44	Introduction to Environment	Geography
45	Disaster Management and Mitigation	Geography
46	Etiquettes and Manners in Restaurants	Maritime Hospitality Studies
47	Introduction to Tourism	Home Science
48	Fashion Forecasting	Home Science
49	Introduction to the Hospitality Industry	Maritime Hospitality Studies
50	Principles of Management	Maritime Hospitality Studies
51	Cooperative Banking: Structure, And Financial Inclusion	B.Com (Banking & Insurance)
52	Debt Market	B.Com (Investment Management)
53	Open Elective in Accounting & Finance Paper V	B.Com (Accounting & Finance)
54	OE in Financial Management – V (Fixed Income Securities –I)	B.Com (Accounting & Finance)
55	Money Markets: Trends And Instruments	B.Com (Banking & Insurance)
56	Equity Market	B.Com (Investment Management)
57	Open Elective in Accounting & Finance Paper VI	B.Com (Accounting & Finance)
58	OE in Financial Management – VI (Fixed Income Securities –II)	B.Com (Accounting & Finance)
59	Basic sectors of Indian Economy	Business Economics
60	Global and Regional Environmental Issues	BMS (Environmental Management)
61	Finance Fintech Start up	BMS B.Com (Management Studies)

62	HR Fintech & Hybrid Work Model	BMS B.Com (Management Studies)
63	Marketing Green Marketing	BMS B.Com (Management Studies)
64	Financial Literacy	Business Management
65	Laws and Regulations in Transport -I	B.Com. (Transport Management)
66	Fundamental of Family Business OR Finance for Non-Finance Executives	B.Com.
67	Open Elective in Accounting – V	Accountancy
68	Financial Literacy	B.Com. (Financial Market)

For Details of Syllabus course contents please check the below link

<https://mu.ac.in/syllabus-of-nep-2020/syllabus-of-nep-2020-ug-programme-vertical-3-open-elective-faculty-of-commerce#1748603090463-471ce0e3-4b4f>

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<https://mu.ac.in/syllabus-of-nep-2020/syllabus-of-nep-2020-ug-programme-vertical-3-open-elective-faculty-of-science>

<https://mu.ac.in/syllabus-of-nep-2020/syllabus-of-nep-2020-ug-programme-vertical-3-open-elective-faculty-of-science#1748929786239-55a760a2-be66>

<https://mu.ac.in/syllabus-of-nep-2020/syllabus-of-nep-2020-ug-programme-vertical-3-open-elective-faculty-of-interdisciplinary>

<https://mu.ac.in/syllabus-of-nep-2020/syllabus-of-nep-2020-ug-programme-vertical-3-open-elective-faculty-of-interdisciplinary#1749470045964-6092bfc1-c8be>