

# FATIMA MATA NATIONAL COLLEGE

AUTONOMOUS

(Reaccredited with 'A' Grade by NAAC)  
Affiliated to University of Kerala



## 1.2.2 List of Elective and Open Courses

**IQAC** INTERNAL QUALITY ASSURANCE CELL

## LIST OF ELECTIVE COURSES & OPEN COURSES

Elective Courses in UG and PG Programmes				
Sl. No.	Program me	Course Code	Course Title	Offered to
1	U15	15UB0661.1	Elective-Biotechnology & Nanobiotechnology	B.Sc. Botany
2	P15	15PBO42	Special Paper –II Elective - Biotechnology	M.Sc. Botany
3	P11	15PMM33	Elective - Automata Theory	M.Sc. Mathematics
4	P11	15PMM33	Probability	M.Sc. Mathematics
5	P11	15PMM33	Operations Research	M.Sc. Mathematics
6	P11	15PMM34	Elective - Graph Theory	M.Sc. Mathematics
7	P11	15PMM34	Geometry of Numbers	M.Sc. Mathematics
8	P11	15PMM34	Differential Geometry	M.Sc. Mathematics
9	P11	15PMM34	Approximation Theory	M.Sc. Mathematics
10	P11	15PMM43	Elective - III Mechanics	M.Sc. Mathematics
11	P11	15PMM43	Mathematical Statistics	M.Sc. Mathematics
12	P11	15PMM43	Theory of Wavelets	M.Sc. Mathematics
13	P11	15PMM43	Coding Theory	M.Sc. Mathematics
14	P11	15PMM43	Field Theory	M.Sc. Mathematics
15	P11	15PMM44	Elective - IV Analytic Number Theory	M.Sc. Mathematics
16	P11	15PMM44	Commutative Algebra	M.Sc. Mathematics
17	P11	15PMM44	Representation Theory of Finite Groups	M.Sc. Mathematics
18	P11	15PMM44	Category Theory	M.Sc. Mathematics
19	P11	15PMM44	Advanced Group Theory	M.Sc.

				Mathematics
20	P11	15PMM44	Analytic Number Theory	M.Sc. Mathematics
21	U31	15UCO361.1	Financial Management	B. Com.
22	U31	15UCO361.2	Principles of Co-operation	B. Com.
23	U31	15UCO461.2	Co-operative management and Administration	B. Com.
24	U31	15UCO461.1	Project Finance	B. Com.
25	U31	15UCO561.1	Financial Markets and Services	B. Com.
26	U31	15UCO561.2	Co-operative Legal System	B. Com.
27	U31	15UCO661.1	Income Tax Law and Accounts	B. Com.
28	U31	15UCO661.2	Co-operative Accounting	B. Com.
29	U31	15UCO661.6	Marketing Management	B. Com.
30	P12	15PPH 33E	Advanced Electronics- I	M.Sc. Physics
31	P12	15PPH 33M	Materials Science - I	M.Sc. Physics
32	P12	15PPH 33S	Space Physics and Plasma Physics	M.Sc. Physics
33	P12	15PPH 33T	Theoretical Physics-I	M.Sc. Physics
34	P12	15PPH 33N	Special Paper I-Advanced Nuclear Physics	M.Sc. Physics
35	P12	15PPH 43N	Special Paper II-Radiation physics	M.Sc. Physics
36	P12	15PPH 43E	Advanced Electronics- II	M.Sc. Physics
37	P12	15PPH 43M	Materials Science - II	M.Sc. Physics
38	P12	15PPH 43S	Advanced Astrophysics	M.Sc. Physics
39	P12	15PPH 43T	Theoretical Physics-II	M.Sc. Physics
40	U12	15UPY661.1	Electronic Instrumentation	B. Sc. Physics
41	U12	15UPY661.2	Space Science	B. Sc. Physics
42	U12	15UPY661.3	Photonics	B. Sc. Physics
43	U12	15UPY661.4	Nanoscience and Technology	B. Sc. Physics
44	U12	15UPY661.5	Computer Hardware and Networking	B. Sc. Physics
45	U17	15UPG661.1	Life Skills Development	B. Sc. Psychology
46	U17	15UPG661.2	Indian Psychology	B. Sc. Psychology

47	U17	15UPG661.3	Yoga and Stress Management	B. Sc. Psychology
48	U17	15UPG661.4	Sports Psychology	B. Sc. Psychology
49	U17	15UPG661.5	Psychology of Advertising and Marketing Research	B. Sc. Psychology
50	U17	15UPG661.6	Psychology of Adolescence	B. Sc. Psychology
51	U17	15UPG661.7	Psychology of Communication and Media	B. Sc. Psychology
52	U17	15UPG661.8	Positive Psychology	B. Sc. Psychology
53	P17	15PPC32	Psychology of Exceptional Children	M. Sc. Psychology
54	P17	15PPC33	Assessment and Management of Exceptional Children	M. Sc. Psychology
55	P17	15PPC34	Experimental Psychology - II (Practical)	M. Sc. Psychology
56	P17	15PPC41	Health Psychology	M. Sc. Psychology
57	P17	15PPC42	Testing, Counselling and Behaviour Management in School Setting	M. Sc. Psychology
58	P17	15PPC43	Psychology In the Classroom	M. Sc. Psychology
59	P17	15PPC44	Applied Psychology (Practical)	M. Sc. Psychology
60	U16	15UZO661.1	Ornamental Fish Culture	B. Sc. Zoology
61	U16	15UZO661.2	Vermiculture and Apiculture	B. Sc. Zoology
62	U16	15UZO661.3	Dairy Farming and Broiler Farming	B. Sc. Zoology
63	P23	15PEC34	Optional I Agricultural Economics	M. A. Economics
64	P23	15PEC44	Optional II Industrial Economics	M. A. Economics
65	P21	15P EL 33	Women's Writing	M.A. English Language and Literature
66	P21	15P EL 34	Writing for the Media	M.A. English Language and Literature
67	P21	15P EL 43	American Literature	M.A. English Language and Literature
68	P21	15P EL 44	European Fiction	M.A. English

				Language and Literature
69	P13	15PCH 41(a)	Advanced Inorganic Chemistry	M. Sc. Chemistry
70	P13	15PCH 41(b)	Advanced Organic Chemistry	M. Sc. Chemistry
71	P13	15PCH 41 (c)	Advanced Physical Chemistry	M. Sc. Chemistry
72	P22	15PML44	Elective- ThirakkadhaPadanam	M. A. Malayalam
73	U43	15UCC361.1	Financial Management	B. Com. Co-operation
74	U43	15UCC361.2	Principles of Co-operation	B. Com. Co-operation
75	U43	15UCC461.2	Co-operative management and Administration	B. Com. Co-operation
76	U43	15UCC461.1	Project Finance	B. Com. Co-operation
77	U43	15UCC561.1	Financial Markets and Services	B. Com. Co-operation
78	U43	15UCC561.2	Co-operative Legal System	B. Com. Co-operation
79	U43	15UCC661.1	Income Tax Law and Accounts	B. Com. Co-operation
80	U43	15UCC661.2	Co-operative Accounting	B. Com. Co-operation
81	U43	15UCC661.6	Marketing Management	B. Com. Co-operation
82	U44	CC1661.6	Marketing Management	B.Com. (Computer Application)
83	U44	CC1661.7	Management of Foreign Trade	B.Com. (Computer Application)
84	U44	CC1661.8	Advertising and Sales Promotion	B.Com. (Computer Application)
85	U21	15UEN661.1	Translation Studies	B. A. English Language & Literature
86	U21	15UEN661.2	Copy-editing	B. A. English Language &

				Literature
87	U21	15UEN661.3	Creative Writing	B. A. English Language & Literature
88	U13	15UCH661.2	Biochemistry	B. Sc. Chemistry
89	U14	15UPO661.1	Advanced Polymer Chemistry	B. Sc. Polymer Chemistry
90	U23	15UEC661.1	Agricultural Economics	B. A. Economics
91	U24	15UHY661.1	Historical Tourism	B. A. History
92	U24	15UHY661.2	Heritage Studies	B. A. History
93	U24	15UHY661.3	Contemporary World	B. A. History
94	U22	15UML661.5	MalayalaPathrapravarthanam	B.A. Malayalam
95	U41	15UCS561.1	Formal Languages and Automata	B.Sc.Computer Science
96	U41	15UCS561.2	Bioinformatics	B.Sc. Computer Science
97	U41	15UCS561.3	Trends in Computing	B.Sc. Computer Science
98	U41	15UCS661.1	Mobile Computing	B.Sc. Computer Science
99	U41	15UCS661.2	Embedded Systems	B.Sc. Computer Science
100	U41	15UCS661.3	Data Mining and Data Warehousing	B.Sc. Computer Science
101	U45	CP1661.1	Bioinformatics	Bachelor of Computer Application
102	U45	CP1661.2	Trends in Computing	Bachelor of Computer Application
103	U45	CP1661.3	Software Testing	Bachelor of Computer Application
104	U42	15UENC661.1	Translation Studies	B.A.English Language, Literature and Communication
105	U42	15UENC661.2	Elective : Copy Editing	B.A.English Language, Literature and Communication
106	U42	15UENC661.3	Creative Writing	B.A.English Language, Literature and Communication

107	U11	15UMM 661.1	Graph Theory	B.Sc. Mathematics
108	U11	15UMM 661.2	Fuzzy Mathematics	B.Sc. Mathematics
109	U11	15UMM 661.3	Mechanics	B.Sc. Mathematics
<b>Open Courses for UG Programmes</b>				
1	Open Course	15UB0551.1	Horticulture	All fifth semester degree students
2		15UCO551.1	Fundamentals of Financial Accounting	
3		15UMM 551.1	Operations Research	
4		15UMM 551.2	Business Mathematics	
5		15UMM 551.3	Actuarial Science	
6		15UPY 551.1	Biophysics	
7		15UPY 551.2	Astronomy and Astrophysics	
8		15UPY 551.3	Applied Physics	
9		15UPY 551.4	Environmental Physics	
10		15UPY 551.5	Energy Physics	
11		15UPE551.1	Health and Fitness Education	
12		15UPG551.1	Child Development	
13		15UPG551.2	General Psychology	
14		15UPG551.3	Psychological Analysis of Film and Culture	
15		15UPG551.4	Yoga and Stress Management	
16		15UPG551.5	Sports Psychology	
17		15UPG551.6	Psychology of Advertising and Marketing Research	
18		15UPG551.7	Psychology of Adolescence	
19		15UPG551.8	Positive Psychology	
20		15UZ0551.1	Human Health and Sex Education	
21		15UZ0551.2	Public Health and Hygiene	
22		15UZ0551.3	Human Disease and their Management	
23		15UCC551.1	Fundamentals of Financial Accounting	
24		CC1551.1	Fundamentals of Financial Accounting	
25		CC1551.2	Principles of Management	
26		CC1551.3	Capital Market Operations	
27		15UEN551.1	Communicative Applications in English	
28		15UEN551.2	Theatre Studies	
29		15UCH551.1	Essentials of Chemistry	

30	15UP0551.1	Chemistry in everyday life
31	15UEC551.1	Human Resource Management
32	15UHY551.1	Empowerment of Women with Special Reference to India
33	15UHY551.2	Introduction to Archaeology
34	15UHY551.3	History of Human Rights Movements
35	15UML551.4	MalayalaPathrapravarthanam
36	15UCS551.1	Internet Technology
37	15UCS551.2	Linux Environment
38	15UCS551.3	Business Informatics
39	CP1551.1	Internet technology
40	CP1551.2	Linux environment
41	CP1551.3	Business informatics
42	15UENC551.1	Open Course :Communicative Applications
43	15UENC551.2	Open Course : Theatre Studies



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