FATIMA COLLEGE (AUTONOMOUS)



Re-Accredited with "A" Grade by NAAC (3rd Cycle) 74th Rank in India Ranking 2020 (NIRF) by MHRD Maryland, Madurai- 625 018, Tamil Nadu, India

NAME OF THE DEPARTMENT: MATHEMATICS

NAME OF THE PROGRAMME: B.Sc

PROGRAMME CODE : USMA

ACADEMIC YEAR : 2022 – 2023

	To	epartment of Mathematics o be implemented from 2022-2023 onw
	Ve Co	nue: B5 orrened on: 16-3-2022 Convened at: 2
	Mer	nbers Present: (Names with Initial and signaturi)
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		Dr. C. Prasanna Devi	
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		Mrs. Nigile Ragavan	MICH "Sadar"
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		Dr. M. V. Selter Meenekshi:	
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	and and 3rd year papers.
	19M3CC5/19G3CC5 - Modern Algebra,
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	19M4CL8/19G4CL8 - Linear Algebra
	19M5CC9/19M5CC9 - Real Analysis
	19M5 cc10/1965 cc10 - States
	19 M5 CC 11/19 is CC 11 - Linear Programming

	19m5cc12/19a5cc12 - Graph ?	Theory
	19MbCc13/19GbCc13 - Comple	a Analysis
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9.	Dean of Sciences and Carlinet Esse
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VISION OF THE DEPARTMENT

To empower students both as individuals and as citizens in the society through Mathematics with sound knowledge and investigate new methodologies for future applications.

MISSION OF THE DEPARTMENT

- To achieve high standards of excellence in generating and propagating knowledge in Mathematics
- To lay a solid foundation for the concept of numeracy and scientific thinking
- To give the students, opportunities for developing, manipulative skills that will enable them function effectively in the society within the limits of their capacity
- To contribute to the development of students as Mathematical thinkers and to continue to grow in their chosen professions
- To enable the students to become lifelong learners and to function as productive citizens

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

PEO 1	Our graduates will be academic, digital and information literates; creative, inquisitive, innovative and desirous for the "more" in all aspects				
PEO 2	They will be efficient individual and team performers, exhibiting progress, flexibility, transparency and accountability in their professional work				
РЕО З	The graduates will be effective managers of all sorts of real – life and professional circumstances, making ethical decisions, pursuing excellence within the time framework and demonstrating apt leadership skills				
PEO 4	They will engage locally and globally, evincing social and environmental stewardship demonstrating civic responsibilities and employing right skills at the right moment				

GRADUATE ATTRIBUTES (GA)

Fatima College empowers her women graduates holistically. A Fatimite achieves all-round empowerment by acquiring Social,

Professional and Ethical competencies. A graduate would sustain and nurture the following attributes:

	I. SOCIAL COMPETENCE
GA 1	Deep disciplinary expertise with a wide range of academic and digital literacy
GA 2	Hone creativity, passion for innovation and aspire excellence
GA 3	Enthusiasm towards emancipation and empowerment of humanity
GA 4	Potentials of being independent
GA 5	Intellectual competence and inquisitiveness with problem solving abilities befitting the field of research
GA 6	Effectiveness in different forms of communications to be employed in personal and professional environments through varied platforms
GA 7	Communicative competence with civic, professional and cyber dignity and decorum
GA 8	Integrity respecting the diversity and pluralism in societies, cultures and religions
GA 9	All – inclusive skill- sets to interpret, analyse and solve social and environmental issues in diverse environments
GA 10	Self-awareness that would enable them to recognise their uniqueness through continuous self-assessment in order to face and make changes building their strengths and improving on their weaknesses
GA 11	Finesse to co-operate exhibiting team-spirit while working in groups to achieve goals

GA 12	Dexterity in self-management to control their selves in attaining the kind of life that they dream for
GA 13	Resilience to rise up instantly from their intimidating setbacks
GA 14	Virtuosity to use their personal and intellectual autonomy in being life-long learners
GA 15	Digital learning and research attributes
GA 16	Cyber security competence reflecting compassion, care and concern towards the marginalised
GA 17	Rectitude to use digital technology reflecting civic and social responsibilities in local, national and global scenario
	II. PROFESSIONAL COMPETENCE
GA 18	Optimism, flexibility and diligence that would make them professionally competent
GA 19	Prowess to be successful entrepreneurs and employees of trans-national societies
GA 20	Excellence in Local and Global Job Markets
GA 21	Effectiveness in Time Management
GA 22	Efficiency in taking up Initiatives
GA 23	Eagerness to deliver excellent service
GA 24	Managerial Skills to Identify, Commend and tap Potentials
	III. ETHICAL COMPETENCE
GA 25	Integrity and discipline in bringing stability leading a systematic life promoting good human behaviour to build better society
GA 26	Honesty in words and deeds

GA 27	Transparency revealing one's own character as well as self-esteem to lead a genuine and authentic life
GA 28	Social and Environmental Stewardship
GA 29	Readiness to make ethical decisions consistently from the galore of conflicting choices paying heed to their conscience
GA 30	Right life skills at the right moment

PROGRAMME OUTCOMES (PO)

The learners will be able to

PO 1	Apply acquired scientific knowledge to solve complex issues.
PO 2	Attain Analytical skills to solve complex cultural, societal and environmental issues.
PO 3	Employ latest and updated tools and technologies to analyse complex issues.
PO 4	Demonstrate Professional Ethics that foster Community, Nation and Environment Building Initiatives.

PROGRAMME SPECIFIC OUTCOMES (PSO)

On completion of B.Sc. Mathematics programme, the graduates would be able to

PSO 1	Gain broad knowledge and understanding in pure Mathematics and applications of Mathematics.
	applications of Mathematics.
	Demonstrate a computational ability and apply logical thinking
PSO 2	skills to solve problems that can be modelled Mathematically.
PSO 3	Read, understand, analyse and formulate Mathematical theorems.
	Acquire proficiency in the use of technology to assist in learning
PSO 4	and investigating, Mathematical ideas and in problem solving.
	Communicate Mathematical concepts accurately, precisely and
PSO 5	effectively with clarity and coherence both verbal and in written
	form

FATIMA COLLEGE (AUTONOMOUS), MADURAI-18 DEPARTMENT OF MATHEMATICS(SF)

For those who joined in June 2019 onwards

PROGRAMME CODE:

PART - I - TAMIL / FRENCH / HINDI- 12 CREDITS

PART – I – TAMIL

Offered by The Research Centre of Tamil

S. NO	SEM.	COURSE CODE	COURSE TITLE	HRS	CRE DITS	CIA Mks	ESE Mks	TOT. MKs
1.	I	19TL1C1	Language-Modern Literature - nghJj;jkpo; - ,f;fhy ,yf;fpak;	5	3	40	60	100
2.	II	19TL2C2	Language - Bakthi Literature - nghJj;jkpo; - gf;jp ,yf;fpak;	5	3	40	60	100
3.	Ш	19TL3C3	Language- Epic Literature - nghJj;jkpo; - fhg;gpa ,yf;fpak;	5	3	40	60	100
4.	IV	19TL4C4	Language-Sangam Literature - nghJj;jkpo; - rq;f ,yf;fpak;	5	3	40	60	100
	TOTAL			20	12			

PART – I – FRENCH

Offered by The Department of French

S. NO	SEM.	COURSE CODE	COURSE TITLE	HRS	CRE DITS	CIA Mks	ESE Mks	TOT. MKs
1.	I	19RL1C 1	PART 1 LANGUAGE FRENCH - LE NIVEAU INTRODUCTIF	5	3	40	60	100
2.	11	19RL2C 2	PART 1 LANGUAGE FRENCH - LE NIVEAU DÉCOUVERTE	5	3	40	60	100
3.	Ш	19RL3C 3	PART 1 LANGUAGE FRENCH - LE NIVEAU INTERMEDIAIRE – LA CIVILISATION, LA LITTERATURE ET LA GRAMMAIRE	5	3	40	60	100
4.	IV	19RL4C 4	PART 1 LANGUAGE FRENCH - LE NIVEAU DE SUIVRE – LA CIVILISATION, LA LITTERATURE ET LA GRAMMAIRE	5	3	40	60	100
	TOTAL			20	12			

PART – I – HINDI

Offered by The Department of Hindi

S. NO	SE M.	COURSE CODE	COURSE TITLE	HRS	CRE DITS	CIA Mks	ESE Mks	TOT. MKs
1.	I	19DL1C1	PART 1 LANGUAGE HINDI - बोलचाल की हिंदी	5	3	40	60	100
2.	II	19DL2C2	PART 1 LANGUAGE HINDI - कार्यालयीन हिंदी	5	3	40	60	100
3.	Ш	19DL3C3	PART 1 LANGUAGE HINDI - हिंदी साहित्य का आदिकाल और भक्तिकाल	5	3	40	60	100
4.	IV	19DL4C4	PART 1 LANGUAGE HINDI - हिंदी साहित्य का आधुनिक काल	5	3	40	60	100
			TOTAL	20	12			

PART – II -ENGLISH – 12 CREDITS

Offered by The Research Centre of English

S. NO	SEM.	COURSE CODE	COURSE TITLE	HRS	CRE DITS	CIA Mks	ESE Mks	TO T. MK s
1.	T	19EL1LB / 19EL1WB	BASIC COMMUNICATIVE ENGLISH	5	3	40	60	100
2.	1	19EL1LI/ 19EL1WI	INTERMEDIATE COMMUNICATIVE ENGLISH	3	3	40	00	100

S. NO	SEM.	COURSE CODE	COURSE TITLE	HRS	CRE DITS	CIA Mks	ESE Mks	TO T. MK s
3.		19EL1LA/ 19EL1W A	ADVANCED COMMUNICATIVE ENGLISH					
4.		19EL2LB / 19EL2WB	ENGLISH COMMUNICATION SKILLS					
5.	II	19EL2LI/ 19EL2WI	ENGLISH FOR EMPOWERMENT	5	3	40	60	100
6.		19EL2LA/ 19EL2WA	ENGLISH FOR CREATIVE WRITING					
7.	III	19EL2LA/ 19EL2WA	ENGLISH FOR DIGITAL ERA	5	3	40	60	100
8.	IV	19EL4LN / 19EL4WN	ENGLISH FOR INTEGRATED DEVELOPMENT	5	3	40	60	100
			TOTAL	20	12			

PART – III -MAJOR, ALLIED & ELECTIVES – 95 CREDITS

MAJOR CORE COURSES INCLUDING PRACTICALS : 60 CREDITS

S. NO	SEM .	COURSE CODE	COURSE TITLE	HRS	CRE DITS	CIA Mks	ESE Mks	TOT. MKs
1.	Ţ	19G1CC1	Calculus	6	4	40	60	100
2.	I	19G1CC2	Classical Algebra	6	4	40	60	100
3.		19G2CC3	Differential Equations	6	4	40	60	100
4.	II	19G2CC4	Statistics	6	4	40	60	100
5.	III	19G3CC5	Modern Algebra	6	4	40	60	100
6.	111	19G3CC6	Advanced Statistics	6	4	40	60	100
7.	IV	19G4CC7	Sequences and Series	6	4	40	60	100
8.	10	19G4CC8	Linear Algebra	6	4	40	60	100
9.		19G5CC9	Real Analysis	5	4	40	60	100
10.	v	19G5CC10	Statics	5	4	40	60	100
11.	V	19G5CC11	Linear Programming	5	4	40	60	100
12.		19G5CC12	Graph Theory	5	4	40	60	100
13.		19G6CC13	Complex Analysis	5	4	40	60	100
14.	VI	22G6CC14	Dynamics	5	4	40	60	100
15.		19G6CC15	Operations Research	5	4	40	60	100
			TOTAL	83	60			

ALLIED COURSES- 20 CREDITS

S. NO	SEM.	COURSE CODE	COURSE TITLE	HR S	CRE DITS	CIA Mks	ESE Mks	TOT. MKs
1.	I	21B1ACG1	Computer Programming in C	3	5	40	60	100
2.	I	21B1ACG2	C-Practicals	2	3	40	60	100
3.	II	21B2ACG3	Object Oriented Programming with C++	3	5	40	60	100
4.	II	21B2ACG4	C++ - Practicals	2		40	60	100
			TOTAL	20	20			

ELECTIVES-15 CREDITS

S. No	SEM.	COURSE CODE	COURSE TITLE	H RS	CRE DITS	CIA Mks	ESE Mks	TOT Mks
1.	V	19G5ME1 & 19G5MEP1/ 19G5ME2 & 19G5MEP2	Computer Programming in C & C-Practicals Object oriented Programming with C++ (or) C++ Practicals	3+ 2/ 5	3+2/ 5	40+ 40/ 40	60+ 60/ 60	100 + 100 / 100
2.		19G6ME3 (or) 19G6ME4	Fuzzy Mathematics (or) Theory of Numbers	3+ 2/ 5	3+2/ 5	40+ 40/ 40	60+ 60/ 60	100 + 100 / 100
3.	VI	19G6ME5 / (or) 19G6ME6	Lattices and Boolean Algebra / (or) Discrete Mathematics	5	5	40	60	100
			TOTAL	15	15			

ALLIED COURSES OFFERED FOR OTHER DEPARTMENTS

S. No	SEM.	COURSE CODE	COURSE TITLE		CRE DITS	CIA Mks	ESE Mks	TOT Mks
1.	Ι	19G1ACI1/ 19G1ACJ1	Discrete Mathematics (offered to BCA & IT)	5	5	40	60	100
2.	II	19G2ACI2/ 19G2ACJ2	Operations Research (offered to BCA & IT)	5	5	40	60	100

PART – IV – 20 CREDITS

- VALUE EDUCATION
- ENVIRONMENTAL AWARENESS
- NON-MAJOR ELECTIVE
- SKILL BASED COURSES

S. No	SEM.	COURSE CODE	COURSE TITLE	H RS	CRE DITS	CIA Mks	ESE Mks	TOT.
1.	I	21G1VE1	Personal Values	1	1	40	60	100
2.	1	19G1NME	Quantitative Aptitude	2	2	40	60	100
3.	II	21G2VE2	Values for Life	1	1	40	60	100
4.	11	19G2NME	Quantitative Aptitude	2	2	40	60	100
5.		21G3EE	Environmental Education	1	1	40	60	100
6.	III	19G3SB1	Applications of Calculus and Differential Equations	2	2	40	60	100
7.	IV	21G4EE	Gender Studies	1	1	40	60	100
8.	1 V	22G4SB2	Trigonometry	2	2	40	60	100
9.	V	19G5SB3	Data Interpretation and Analytical Aptitude	2	2	40	60	100
10.		19G5SB4	Cryptography	2	2	40	60	100
11.		19G6SB5	MATLAB	2	2	40	60	100
12.	VI	19G6SB6	Combinatorial Mathematics	2	2	40	60	100
			TOTAL	20	20			

EXTRA CREDIT COURSES

COURSE	COURSE	HR S.	CREDIT S	SEMES TER IN WHICH THE COURS E IS OFFER ED	CIA MK S		TOTA L MARK S
19UGG6SL	History of Mathematics	-	2	VI	40	60	100
	MOOC COURSES / International Certified online Courses (Department Specific Courses/any other courses) * Students can opt other than the listed course from UGC-SWAYAM UGC / CEC	-	Minimu m 2 Credits	I – VI	-	_	

OFF CLASS PROGRAMMES

21UGVAM1 - Value Added Crash Course (Verbal and Non Verbal Reasoning)

22UGVACM1 - Value Added Crash Course (Quantitative and Qualitative Methods for Competitive Examinations)

PART – V – 1 CREDIT

OFF-CLASS PROGRAMMES - ALL PART-V

SHIFT - II

S. No	SEM.	COURSE CODE	COURSE TITLE	HRS	CRE DIT	TOT. Mks
1.		21S4PED	Physical Education			
2.		21S4YRC	Youth Red Cross			
3.	1 137	21S4NSS	NSS	30/	1	100
4.	I – IV	21S4NCC	NCC	SEM	1	100
5.		21S4WEC	Women Empowerment Cell			
6.		21S4ACUF	AICUF			

OFF-CLASS PROGRAMMES

ADD-ON COURSES

COURSE	COURSE TITLE	HR S.	CRE DITS	SEMES TER IN WHICH THE COURS E IS OFFER ED	CIA Mks	ESE Mks	TOT AL Mks
19UADFCA	ONLINE SELF LEARNING COURSES- Foundation Course for Arts	40	2	I	40	60	100

COURSE	COURSE TITLE	HR S.	CRE DITS	SEMES TER IN WHICH THE COURS E IS OFFER ED	CIA Mks	ESE Mks	TOT AL Mks
19UADFCS	ONLINE SELF LEARNING COURSE-Foundatio n Course for Science	40	2	II	40	60	100
21UADES3	21UADES3 Social & Professional Ethics		1	III	40	60	100
21UADES4 Personality Development		15	1	IV	40	60	100
21UADES5	Family Life Education		1	V	40	60	100
21UADES6	21UADES6 Life Skills		1	VI	40	60	100
19UAD5HR	HUMAN RIGHTS	15	2	V	100	-	100
19UADRS	OUTREACH PROGRAMME- Reach Out to Society through Action ROSA	100	3	V & VI	100	-	100
19UADPR	PROJECT	30	4	VI	40	60	100

COURSE	COURSE TITLE	HR S.	CRE DITS	SEMES TER IN WHICH THE COURS E IS OFFER ED	CIA Mks	ESE Mks	TOT AL Mks
19UADRC	READING CULTURE	10/ Sem este r	1	II-VI	-	ı	-
	TOTAL		20				

II B.Sc Mathematics SEMESTER -IV

For those who joined in 2022 onwards

SKILL DEVELOPMENT-100%

PROGRAMM E CODE	COURSE CODE	COURSE TITLE	CATEGORY	HRS/ WEEK	CREDIT S
UAMA	22G4SB2	TRIGONOMETR Y	Lecture	2	2

COURSE DESCRIPTION

This course helps the students to develop their problem solving skills.

COURSE OBJECTIVES

To enable the students learn some basic concepts of Trigonometry and to solve problems.

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UNIT I: EXPANSIONS -I

[6 HRS]

Expansion of sinnx, cosnx, tannx

UNIT II: EXPANSIONS -II

[6 HRS]

Expansion of sinⁿx, cosⁿx, sin^mx cosⁿx

UNIT III: EXPANSIONS -III

[6 HRS]

Expansions of $\cos \; \theta$, $\sin \theta$ and $\tan \theta$ in a series of ascending powers of $\; \theta$

UNIT III: HYPERBOLIC FUNCTIONS

[6 HRS]

Hyperbolic functions, Relations between hyperbolic functions, Inverse Hyperbolic functions.

UNITV:LOGARITHMS OF COMPLEX QUANTITIES

[6 HRS]

Logarithms of complex quantities, Definition, Logarithm of x+iy, General value of logarithm of x+iy

TEXT BOOKS:

 S. Narayanan and T. K. Manicavachagam Pillai - Trigonometry , S. Viswanathan (Printers and Publishers), Pvt. Ltd, 2008.

UNIT I, II & III Chapter 3

UNIT IV Chapter 4

UNIT V Chapter 5(Section 5.1 & 5.2)

REFERENCE BOOKS:

- 1. P.R. Vittal & V.Malini Algebra & Trigonometry, Margham Publications, 2008.
- 2. Sudhir K Pundir singh- Algebra & Trigonometry, Meerat Pragathi prakashan,2003

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

NO.	COURSE OUTCOMES	KNOWLEDGE LEVEL (ACCORDING TO REVISED BLOOM'S TAXONOMY)	PSOs ADDRESSED
CO 1	Recall some expansions of Trigonometric functions in sinnx, cosnx, tannx.	K1	PSO1& PSO2
CO 2	Recall some expansions of Trigonometric functions in sin ⁿ x, cos ⁿ x, sin ^m x cos ⁿ x	K2 & K3	PSO3
CO 3	Recall some expansions of Trigonometric functions in $\cos \theta$, $\sin \theta$ and $\tan \theta$ in a series of ascending powers of θ	K1 & K2	PSO4
CO 4	Do the problems in hyperbolic functions	K1 & K4	PSO5

Mapping COs Consistency with PSOs

CO / PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2
co 2	2	3	2	2	2
CO 3	2	3	3	2	2
CO 4	2	2	2	3	3
CO 5	2	2	2	3	2

Mapping COs Consistency with POs

CO / PO	PO1	PO2	РО3	PO4
CO 1	3	2	2	2
CO 2	2	2	2	3
CO 3	3	2	2	2
CO 4	2	3	2	2
CO 5	2	2	2	3

Note: ♦ Strongly Correlated – **3**

♦ Moderately Correlated – 2

♦ Weakly Correlated -1

COURSE DESIGNER:

1. Mrs. Nigila Ragavan

Forwarded By

J.R.

(Dr.A.Paulin Mary)

HOD's

Signature & Name