

MINUTE BOOK

Anupam

मिनट बुक

MEETING NO. / सभा नं 20

DATE / तारीख 3.11.2016

RESOLUTION NO. उराव नं	PRESENT MEMBERS AND RESOLUTIONS हजर सभासद व उराव	REMARKS शेरा
	The board of studies of the Department of Mathematics met at 10:30 AM on 3.11.16 in the Department of Mathematics The board identified and discussed various courses for UG, PG, M.Phil and COP Mathematics programmes for the proposed common course structure under the CBCS pattern to be implemented from the academic year 2017-18. The detailed syllabus preparation for each course has been allotted to the staff members. Resolved to request the staff to submit the syllabus for each course on or before 15.12.2016 to Dr. R. Tahir Hussain. Resolved to construct the Programme objectives, course objectives and outcomes to be defined by curriculum development team with the members as R. Tahir Hussain, A. Solairaju, A. Nagar Gani, S. Masrothi, S. Mohamed Yusuff Ansari, N. Mohamed Thoiyab, D. Dhamodharan, Sajitha Begam and Prasanna Devi.	

UG (Science) Programme – Course Structure under CBCS

(Applicable to the candidates admitted from the academic year 2017 -2018 onwards)

3.11.2016

SEM	COURSE CODE	PART	COURSE	COURSE TITLE	Ins. Hrs /Week	CREDIT	Staff
I	17U1LT1/LA1/L F1/LH1/LU1	I	Language – I		6	3	
	17UCN1E1	II	English - I		6	3	
	17UMA1C1	III	Core – I	Differential Calculus and Trigonometry	5	5	MMJ, AT
	17UMA1C2		Core – II	Solid Geometry	3	2	PM, MA
	17U**1A1		Allied – I		5	4	
	17U**1A2		Allied – II		3	2	
	17UCN1VE	IV	Value Education	Value Education	2	2	
			TOTAL		30	21	
II	17U2LT2/LA2/L F2/LH2/LU2	I	Language – II		6	3	
	17UCN2E2	II	English – II		6	3	
	17UMA2C3	III	Core – III	Integral Calculus	6	5	SM, JS
	17UMA2C4		Core – IV	Classical Algebra	3	2	NMT, BS
	17U**2A3		Allied – III		4	3	
	17U**2A4		Allied – IV		3	2	
	17UCN2ES	IV	Environmental Studies	Environmental Studies	2	2	
			TOTAL		30	20	
III	17U3LT3/LA3/L F3/LH3/LU3	I	Language– III		6	3	
	17UCN3E3	II	English – III		6	3	
	17UMA3C5	III	Core– V	Ordinary and Partial Differential Equations	4	4	RJ, AF
	17UMA3C6		Core– VI	Vector Calculus	3	2	AMI, MA
	17UMA3A5:1		Allied–V	Mathematical Statistics I	4	3	KSM, AP,SS,KP
	17UMA3A6:1		Allied–VI	Mathematical Statistics II	3	2	KSM, AP,SS,KP
	17UMA3N1	IV	Non Major Elective I#		2	2	
	17UCN3S1		Skill Based Elective - I	Soft Skills Development	2	2	
			TOTAL		30	21	
IV	17U4LT4/LA4/L F4/LH4/LU4	I	Language–IV		6	3	
	17UCN4E4	II	English– IV		6	3	
	17UMA4C7	III	Core– VII	Sequences and Series	5	5	SM, BS
	17UMA4C8		Core - VIII	Laplace Transform and Fourier Series	3	2	MMJ,AF
	17UMA4A7:1		Allied– VII	Mathematical Statistics III	5	3	KSM, AP,SS,KP
	17UMA4A8:1		Allied–VIII	Mathematical Statistics IV	3	2	KSM, AP,SS,KP
	17UMA4N2	IV	Non Major Elective – II#		2	2	
V	17UCN4EA	V	Extension Activities	NCC, NSS, etc.	-	1	
			TOTAL		30	21	
	17UMA5C9	III	Core – IX	Mechanics	6	5	AMI, AN
	17UMA5C10		Core – X	Real Analysis	5	5	SM, AB
	17UMA5C11		Core – XI	Modern Algebra	5	5	AS, FK
	17UMA5C12		Core - XII	Numerical Methods	5	5	NA, GM
	17UMA5M1	IV	Major Based Elective – I	Operations Research	5	4	SIM, MA
	17UMA5S2		Skill Based Elective II@		2	2	
	17UMA5S3:P		Skill Based Elective – III@		2	2	
	17UMA5EC1		Extra Credit Course - I	Astronomy	-	4*	MMJ
			TOTAL		30	28	
VI	17UMA6C13	III	Core– XIII	Complex Analysis	5	5	RJ, AB
	17UMA6C14		Core– XIV	Number Theory	5	5	NG, AN
	17UMA6C15		Core - XV	Discrete Mathematics	5	5	NG, AB
	17UMA6C16		Core XVI	Graph Theory	5	5	RJ, SB
	17UMA6M2:P	V	Major Based Elective II	C Programming Practical	5	4	NG, SB
	17UMA6M3		Major Based Elective III	Linear Algebra	4	4	AS, FK
	17UCN6GS		Gender Studies	Gender Studies	1	1	
VII	17UMA6EC2		Extra Credit Course - II	Queues and Inventory Models	-	4*	NG, HS
			TOTAL	<i>Replacement and sequencing models</i>	30	29	
			GRAND TOTAL		180	140	

Non Major Elective Courses offered to the other Departments:

SEM	COURSE TITLE	Staff
III	Mathematics for Competitive Examinations – I	NMT,JS
IV	Mathematics for Competitive Examinations – II	NMT,JS

* Not considered for Grand Total and CGPA

@ Skill Based Electives Courses offered to our Department:

SEM	Elective No.	COURSE TITLE	Staff
V	II	Aptitude	SM,DD
		SPSS	MMJ,SB
		PageMaker	RJ, SS
V	III	Reasoning	SM, MMJ,SB, DD
		Mat Lab	AMI, KP
		Corel Draw	SM, MMJ, SB

Any Core papers can be converted to a Practical paper (if need be) and the Subject Code has to be changed as 17P**1CP or 17U**1AP (Example).

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RESOLUTION

PRESENT MEMBERS AND RESOLUTIONS

REMARKS

Allied Mathematics for B.Sc Computer Science

SEM	COURSE CODE	PART	COURSE	COURSE TITLE	Ins. Hrs /Week	CREDIT	Staff
I	17UMA1A1	III	Allied –I	Calculus (Diff, Int.,DE)	4	3	PM, NMT
	17UMA1A2		Allied –II	Numerical Methods	4	3	SJ, UA
			TOTAL			8	6
II	17UMA2A3	III	Allied – III	Operations Research	4	3	AP, HS
	17UMA2A4		Allied –IV	Statistics	3	2	AP, HS
			TOTAL			7	5
	GRAND TOTAL				15	11	

Allied Mathematics for B.Sc (Physics)

SEM	COURSE CODE	PART	COURSE	COURSE TITLE	Ins. Hrs /Week	CREDIT	Staff
III	17UMA3A5:2	III	Allied-V	Calculus(diff.,Int., DE)	4	3	PM, NMT
	17UMA3A6:2		Allied-VI	Vector Calculus	3	2	AMI, AT
	TOTAL			7	5		
IV	17UMA4A7:2	III	Allied- VII	Theory of Equations and Trigonometry	4	3	KSM, KJ
	17UMA4A8:2		Allied-VIII	Laplace Transforms and Fourier series	4	2	KSM, KJ
	TOTAL			8	5		
	GRAND TOTAL				15	10	

Allied Mathematics for B.Sc (Chemistry)

SEM	COURSE CODE	PART	COURSE	COURSE TITLE	Ins. Hrs /Week	CRED IT	Staff
III	17UMA3A5:3	III	Allied-V	Calculus (diff.,Int., DE)	4	3	PM, NMT
	17UMA3A6:3		Allied-VI	Numerical Methods	3	2	SJ, UA
			TOTAL		7	5	
IV	17UMA4A7:3	III	Allied- VII	Theory of Equations and Matrices	4	3	KSM, KJ
	17UMA4A8:3		Allied-VIII	Classical Algebra (Bino, exp log.)	4	2	SJ, GM
			TOTAL		8	5	
			GRAND TOTAL		15	10	

JAMAL MOHAMED COLLEGE (Autonomous), Tiruchirappalli-620 020

PG Programme –Course Structure under CBCS

(For the candidate admitted from the academic year 2017-2018 onwards)

3.11.2016

SEM	Course Code	Course	Course Title	Ins. Hrs / Week	Credit	Staff
I	17PMA1C1	Core– I	Real Analysis	6	5	SM, DD, GM
	17PMA1C2	Core –II	Algebra	6	5	AS, DD, BS
	17PMA1C3	Core– III	Ordinary Differential Equations	6	5	SIM, UA, AN
	17PMA1C4	Core– IV	Numerical Analysis	6	5	NA, UA, SS
	17PMA1CE1:P	Elective– I	Programming in C++ Practicals	6	5	MMJ, SB, HS
		TOTAL		30	25	
II	17PMA2C5	Core– V	Topology	6	5	NG, GM, SJ
	17PMA2C6	Core– VI	Complex Analysis	6	5	RJ, FK, SJ
	17PMA2C7	Core– VII	Linear Algebra	6	5	AS, DD, KP
	17PMA2C8	Core– VIII	Partial Differential Equations	6	5	AP, UA, AN
	17PMA2CE2	Elective– II	Classical Dynamics	6	5	NA, DD, AF
		TOTAL		30	25	
III	17PMA3C9	Core– IX	Measure theory and integration	6	5	AS, AF, DD
	17PMA3C10	Core– X	Fuzzy Sets and their Applications	6	5	NG, FK, HS
	17PMA3C11	Core– XI	Fluid Dynamics	6	5	AMI, DD, SS
	17PMA3C12	Core– XII	Advanced Graph Theory	6	5	RJ, SB, HS
	17PMA3CE3	Elective– III	Mathematical Statistics	6	5	PM, SJ, AT
	17PMA3EC1	Extra Credit Course - I	Discrete Mathematics	-	5*	NG, AB,
		TOTAL		30	25	
IV	17PMA4C13	Core– XIII	Functional Analysis	6	5	AMI, UA, KP
	17PMA4C14	Core– XIV	Advanced Operations Research	6	5	SIM, SS, HS
	17PMA4C15	Core– XV	Integral Equations and Calculus of Variations	6	5	MMJ, DD, MA
	17PMA4C16	Elective - IV	Stochastic Processes	6	5	KSM, SB, SJ
	17PMA4PW	Project		6	5	
	17PMA4EC2	Extra Credit Course - II	Differential Geometry	-	5*	SM, BS
		TOTAL		30	25	
GRAND TOTAL					100	

*Not considered for grand total and CGPA

The above structure may be followed for the departments of Arabic, Botany, Chemistry, Commerce, Economics, English, History, Mathematics, Physics, Tamil and Zoology.

Any Core papers can be converted to a Practical paper (if need be) and the Subject Code has to be changed as 17P**1CP or 17U**1AP (Example).

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Master of Philosophy (M.Phil.) Programme

SEM	SUB CODE	COURSE	SUBJECT TITLE	HRS / WEEK	CREDIT	CIA Mark	SE MARK	TOTAL MARK
I	17MPMA1C1	CORE I	Research Methodology	4*	4	25	75	100
	17MPMA1C2	CORE II	Analysis and Applied Mathematics	4*	4	25	75	100
	17MPMA1C3	CORE III	Research Topics in Mathematics	4*	4	25	75	100
	17MPMA1C4	CORE IV	Teaching & Learning Methodology	4*	4	25	75	100
		*One hour library for each course						
		TOTAL		16	16	100	300	400
II	17PDMA2PW		Dissertation**	-	8	-	-	200
GRAND TOTAL				-	24	-	-	600

** Evaluation of the Dissertation and Viva Voce shall be made jointly by the Research Supervisor and the External Examiner.

Research Topics in Mathematics

1. CODES AND CRYPTOGRAPHY
2. NETWORK OPTIMIZATION & GENETIC ALGORITHMS
3. NUMERICAL SOLUTION OF BOUNDARY VALUE PROBLEMS
4. STOCHASTIC PROCESSES
5. ADVANCED GRAPH THEORY
6. TOPOLOGICAL VECTOR SPACES
7. FUZZY ALGEBRA
8. FUZZY GRAPH THEORY
9. FUZZY OPTIMIZATION
10. FUNCTIONAL ANALYSIS
11. TOPOLOGY
12. INTUITIONISTIC FUZZY GRAPH
13. CONTROL THEORY

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COP Programme –Course Structure under CBCS

Department : Mathematics

Name of the course : E-MATHEMATICAL TOOLS

[UGC Approval No. F.No. 4 – 442/2010 (COP). Dt. 22.03.2010]

(For the candidate admitted from the academic year 2017-2018 onwards)

3.11.2016

COURSE CODE	COURSE	COURSE TITLE	TEACHING HOURS	CREDIT	STAFF
CERTIFICATE COURSE					
17MACT1	CORE I	MS Word and LATEX	150	10	(KSM, DD, JS, KJ)
17MACT2	CORE II	Statistics tools through Excel and SPSS	150	10	(KSM, DD, JS, KJ)
17MACT3:P	CORE III	LATEX, Excel and SPSS (PRACTICAL)*	150	10	(KSM, DD, JS, KJ)
TOTAL			450	30	
DIPLOMA PROGRAMME					
17MADM1	CORE I	LATEX and Beamer Package (Theory)	150	10	(KSM, DD, JS, KJ)
17MADM 2	CORE II	MATLAB (Theory)	150	10	(KSM, DD, JS, KJ)
17MADM3:P	CORE III	MATLAB(Practical)*	150	10	(KSM, DD, JS, KJ)
TOTAL			450	30	
GRAND TOTAL			900	60	
ADVANCED DIPLOMA PROGRAMME					
17MAAD1	CORE I	Statistics	150	10	(KSM, DD, JS, KJ)
17MAAD2	CORE II	SPSS Package	150	10	(KSM, DD, JS, KJ)
17MAAD3:P	CORE III	Statistics Practical's Using SPSS Package*	150	10	(KSM, DD, JS, KJ)
TOTAL			450	30	
GRAND TOTAL			1350	90	

*Practical Examinations will be conducted at the end of the year

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Internal 1

JAMAL MOHAMED COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 20

PG & RESEARCH DEPARTMENT OF MATHEMATICS

BOARD OF STUDIES MEETING (INTERNAL) on 03.11.16

Members Present

S. No.	Name		Signature
01	Dr. S. Ismail Mohideen	Chairman	
02	Mr. N. Abdul Ali	Member	
03	Dr. R. Jahir Hussain	"	
04	Dr. A. Solai Raju	"	
05	Dr. A. Nagoor Gani	"	
06	Dr. A. Mohamed Ismayil	"	
07	Mr. S. Masoothu	"	
08	Mr. M. Mohamed Jaburallah	"	
09	Mr. S. Mohamed Yusuff Ansari	"	
10	Dr. Murganatham	"	
11	Mr. N. Mohamed Thoiyab	"	
12	Dr. A. Prasanna	"	
13	Mr. U. Abuthair	"	
14	Mr. H. Sheik Mujibur Rahman	"	
15	Mr. M. Sathik Jassen	"	
16	Mr. D. Dhamodharan	"	
17	Mrs. S. Shajitha Begum	"	
18	Ms. G. Mehboobnisha	"	
19	Ms. B. Fathima Kani	"	
20	Mrs. B. Shafina Banu	"	
21	Mrs. MS. Afya Farhana	"	
22	Mrs. A. Nafunisha	"	
23	Ms. S. Shamila Banu	"	
24	Ms. M. Affrose Begum	"	
25	Ms. K. Prasanna Devi	"	
26	Ms. A. Thagasin banu	"	
27	Ms. S. Ameena banu	"	
28	Ms. J. Sarthaj Banu	"	
29	Mrs. K. Janofer	"	