

GIET UNIVERSITY, GUNUPUR -76502 SCHOOL OF SCIENCES

Date:09.05.2024

Circular

This is to inform all the Members, Board of Studies of Mathematics Department that the Board of Studies Chairman has accepted to held a BoS meeting on 15th May, 2024 at 10.00 AM. The meeting will be conducted in the Conference Hall of the Department to discuss on the following agenda points.

- 1. Review and revision of syllabus.
- 2. Implementation of five units in every subject.
- 3. Implementation of outcome based education.
- 4. Implementation of 60 marks for external and 40 marks for internal evaluation.
- 5. Induction of one NPTEL course

In this regard I request you all the Board of Studies Members to kindly make themselves available for the smooth conduct of the meeting.

Copy to:

1. Vice-Chancellor

2.Registrar

3. Controller of Examination

4.Dean School of Sciences

HoD

School of Sciences

GIET UNIVERSITY, GUNUPUR **SCHOOL OF SCIENCES DEPARTMENT OF MATHEMATICS**

NOTIFICATION

Date- 15.05.2024

This is to notify that the Board of Studies of M. Sc MATHEMATICS in the Department of School of Sciences to be held on 15.05.2024 with following agenda.

AGENDA

- 1. Details of Syllabus & Structure- AR 24
- 2. List of Examiners
- 3. Any others

Department of Mathematics

GIET University, Gunupur

Copy to: Chairman BoG, Vice Chancellor, Dean (Academics), Dean/HoD (School of Sciences), for information.

BoS Approved

Date:15.05.2024

To

Prof. Vasudeva Rao Allu

Professor, Department of Mathematics.

IIT, BBSR

Sir,

This is with reference to our telephonic conversation with regard to BOS meeting for the Department of school of Sciences in the subject M. Sc (MATHEMATICS) (2024-2026). We would like to convene a meeting on Dt. 15.05.2024.

Kindly acknowledge in this regard and revert back so as to make necessary travel arrangement.

AGENDA

- 1. Ratification of Previous meeting
- 2. Details syllabus and course structure-24
- 3. Internal Examination and end Sem Result analysis
- 4. Different Academic activities
- 5. Research and development
- 6. List of Examiners/Question setter
- 7. List of Adjunct faculty
- 8. Guest faculty for conducting value added topics

9. Any others.

Chairman, BOS

Department of Mathematics

Registrar

GIET University, Gunupur

Copy to: Chairman BoG, Vice Chancellor, Dean (Academics), Dean/HoD (School of Sciences), for information.

BoS Approved

Date: 15.05.2024

GIET UNIVERSITY, GUNUPUR SCHOOL OF SCIENCES

DEPARTMENT OF MATHEMATICS

NOTICE

The following BoS members of MATHEMATICS are requested to attend the BOS meeting of M.Sc. (MATHEMATICS) on Dt. 15.05.2024.

- 1. Dr. P. Vijay Kumar
- 2. Prof. (Dr.) Vasudeva Rao Allu
- 3. Dr. Biplab Kumar Rath
- 4. Dr. V. Ganesh
- 5. Dr. Manas Ranjan Sarangi
- 6. Dr. Dipana Jyoti Mohanty
- 7. Dr. Boina Anil Kumar
- 8. Dr. Madhusudan Patro
- 9. Dr. Tapas Ranjan Panigrahi
- 10. Dr. Laxmipriya Parida
- 11. Mr. N Jagannadham
- 12. Mr. Sidhant Kumar Sahu
- 13. Mr. Dumesh Meher
- 14. Ms. G. Deepika
- 15. Ms. B. Priyanka Patro
- 16. Mr. Rajeeb Dash

GIET UNIVERSITY, GUNUPUR SCHOOL OF SCIENCES

DEPARTMENT OF MATHEMATICS

BOARD OF STUDIES

Member Present

SL NO	NAME OF THE MEMBER	DESIGNATION
1	Dr. P.Vijay Kumar	Chairman BOS
2	Prof. (Dr.) Vasudeva Rao Allu	Subject Expert
3	Dr. Biplab Kumar Rath	Faculty Member
4	Dr. V. Ganesh	Faculty Member
5	Dr. Manas Ranjan Sarangi	Faculty Member
6	Dr. Dipana Jyoti Mohanty	Faculty Member
7	Dr. Boina Anil Kumar	Faculty Member
8	Dr. Madhusudan Patro	Faculty Member
9	Dr. Laxmipriya Parida	Faculty Member
10	Dr. Tapas Ranjan Panigrahi	Faculty Member
11	Mr. N Jagannadham	Faculty Member
12	Mr. Sidhant Kumar Sahu	Faculty Member
13	Mr. Dumesh Meher	Faculty Member
14	Ms. G. Deepika	Faculty Member
15	Ms. B. Priyanka Patro	Faculty Member
16	Mr. Rajeeb Dash	Alumini

Chairman, BoS
Department of Mathematics

Registrar 15/05/2005
GIET University, Gunupur

Copy to: Chairman BoG, Vice Chancellor, Dean (Academics), Dean/HoD (School of Sciences), for information.

BoS Approved

Date:15.05.2024

GIET UNIVERSITY, GUNUPUR SCHOOL OF SCIENCES

DEPARTMENT OF MATHEMATICS

MINUTES OF THE MEETING (M. Sc. MATHEMATICS)

Member Present

Date:15.05.2024

SL NO	NAME OF THE MEMBER	DESIGNATION	SIGNATURE
1	Dr. P.Vijay Kumar	Chairman BOS	panten
2	Prof. (Dr.) Vasudeva Rao Allu	Subject Expert	A. Vary J.
3	Dr. Biplab Kumar Rath	Faculty Member	Days
4	Dr. V. Ganesh	Faculty Member	- Strangt
5	Dr. Manas Ranjan Sarangi	Faculty Member	Mercary
6	Dr. Dipana Jyoti Mohanty	Faculty Member	2/2
7	Dr. Boina Anil Kumar	Faculty Member	Hour
8	Dr. Madhusudan Patro	Faculty Member	
9	Dr. Laxmipriya Parida	Faculty Member	
10	Dr. Tapas Ranjan Panigrahi	Faculty Member	2 de
11	Mr. N Jagannadham	Faculty Member	Par
12	Mr. Sidhant Kumar Sahu	Faculty Member	Cocara
13	Mr. Dumesh Meher	Faculty Member	Taren
14	Ms. G. Deepika	Faculty Member	I Deeple
15	Ms. B. Priyanka Patro	Faculty Member	flugare
16	Mr. Rajeeb Dash	Alumini	Deisus

Department of Mathematics

GIET University, Gunupur

Copy to: Chairman BoG, Vice Chancellor, Dean (Academics), Dean/HoD(School of Sciences), for information.

Welcome by Chairman BoS:

Dr. P. Vijay Kumar at the outset extended his cordial welcome to all the members of BoS. In his address he informed that he will try to continue the practices of his predecessors for the development of department in capacity of Chairman. He expressed his confidence in getting the cooperation and supports all members of BoS in discharging his duties to his potential. The following items are discussed and the corresponding resolutions are adopted:

Agenda- BoS/SS-MATH/24/1/1 (Approval of the Syllabus)

Chairman BoS presented the detailed syllabus for approval as per Annexure- I

Approved syllabus as presented as per Annexure-I

Resolution No. BoS/SS-MATH /24/1/1

Agenda- BoS/SS-MATH /24/1/2 (List of Question Setters)

Chairman BoS presented the list of examiners as per Annexure- II (A)

Resolution No. BoS/SS-MATH /24/1/2 (Approved list examiners as per Annexure-II (A))

Agenda- BoS/SS-MATH /24/1/3(List of Examiners)

Chairman BoS presented the list of examiners as per Annexure- II (B)

Resolution No. BoS/SS-MATH /24/1/3

Approved list Question setters as per Annexure-II (B)

Agenda- BoS/SS-MATH /24/1/4 Any other

Resolution No. BoS/SS-MATH /24/1/4

Minutes of Meeting

Date: 15/05/2024

Time: 11:30 AM

Venue - BIRAC Conference Hall

Chair:

Prof. (Dr) A. Vasudeva Rao, IIT BBSR

Dr. P. Vijaya Kumar, Professor of Mathematics

Dr. A. B. Srinivasa Rao, DEAN, SOET

Dr. B. Rabi Prasad, HOD, SOS

Attendees: Dr. Biplab Kumar Rath, Dr. V Ganesh, Dr. Manas Ranjan Sarangi,

Dr. Boina Anil Kumar, Dr. Dipanjyoti Mohanty, Dr. Laxmipriya Parida,

Dr. Madhusudan Patro, Dr. Tapas Ranjan Panigrahi, Mr. N Jagannadham,

Mr. Sidhant Kumar Sahu, Mr. Dumesh Meher, Ms. B Priyanka Patro and Ms. G Deepika

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Agenda:

BOS Meeting

- 1. Developing the new syllabus for all the subjects of M.Sc. Mathematics for the batch from the Academic year 2024-25
- 2. Adding/removing few topics in certain subjects as per expert's advice.
- 3. Introducing computer programming subjects into the curriculum.
- 4. Revision of syllabus for Regulation-2024.

Discussion and Decisions:

- It is proposed to change the assessment pattern from 70 external & 30 internal into 60 external and 40 internal marks.
- Each subject will consist of 5 units and all the units will have equal weightage in the internal and external examinations.
- The number of Course Outcomes (COs) will increase from 4 to 6.
- The distribution of theory subjects will be as follows:
 - i. 5 theory subjects in semesters I, II, and III
 - ii. 4 theory subjects in semester IV.
- Laboratory sessions will be included in various semesters as follows:
 - i. 1st semester: C Programming & LATEX
 - ii. 2nd semester: Python programming and MATLAB.
- The lab assignments replacing project work will be modified as follows:
 - i. LaTeX lab in the 1ST semester
 - ii. MATLAB lab in the 2nd semester.
- The chair also recommended
 - O Swapping Linear Algebra with Abstract Algebra.
 - o Real analysis from 3rd semester to first semester.
 - Complex Analysis from 3rd semester to 2nd semester.
 - Topology from 1st semester to 3rd semester.
 - Number Theoretic Cryptography from 4th semester to 3rd as compulsory subject.
 - Integral Transforms from 1st semester to 3rd semester as elective subject.
 - Fuzzy set theory from 1st semester to 3rd semester as elective subject.
 - Mathematical modelling from 3rd semester to 4th semester.
 - O Additionally, it was advised to include Finite Element Method as an elective paper in the 4th semester.
- It has been decided to add new topics and eliminate others as needed.

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First semester

A. ABSTRACT ALGEBRA -

i. Vector space has been removed from Abstract Algebra and unit-3 is divided into 2 units as unit-3 & unit-4.

B. COMPLEX ANALYSIS -

i. Complex Variables with Applications by S. Ponnusamy & Herb Silverman shall be referenced.

C. ORDINARY DIFFERENTIAL EQUATIONS -

- i. Avoid using concepts from +2.
- ii. Differential equations by G.F. Simmons may be included as reference book.
- iii. Include additional problems and applications in each unit
- iv. An Introduction to Ordinary Differential Equations" by Earl A. Coddington shall be referenced.

Second semester

A. LINEAR ALGEBRA -

i. The invited expert, Prof. (Dr.) A. Vasudeva Rao from IIT BBSR, will design the entire revised syllabus.

B. PARTIAL DIFFERENTIAL EQUATIONS -

- i. Pfaffian PDE shall be added to Unit 1.
- ii. The solution of the wave equation in 2D in Unit 5 to be mentioned.

C. GRAPH THEORY -

i. A First Course in Graph Theory" by S. A. Choudum shall be referenced, as it presents all topics in an easily understandable manner.

D. INTEGRAL TRANSFORMS -

- i. It is recommended to move this subject to the 1st semester.
- ii. The number of hours should be adjusted as, 10 hours for Z-transforms and 16 hours for **Hankel transforms**.

Third semester

A. NUMERICAL ANALYSIS-

i. Some specific 2-3 formulas of central difference should be added in Unit 3 instead of stating central difference formulas in general.

ii. It is suggested to merge unit I and unit IV as unit I and a new unit with numerical solutions of PDE shall be included.

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B. TOPOLOGY -

- i. Topology by James Dugundji should be referenced.
- ii. Include some NPTEL lectures for the elective papers.

C. OPTIMIZATION TECHNIQUES -

i. Unit 4 should be divided into two separate units. as i) Games. ii) nonlinear programming. By removal of queuing theory & inclusion of job sequencing, PERT&CPM and Dynamic programming.

D. DISSERTATION -1-

i. Identification of problem statement and completion of synopsis.

Fourth semester

A. FUNCTIONAL ANALYSIS -

- i. The syllabus shall be appropriately reduced and revised.
- ii. Foundation of Functional Analysis by S. Ponnuswamy is added in reference.

B. NUMBER THEORETIC CRYPTOGRAPHY -

i. Reduce the syllabus of Unit-5 as required.

C. THEORY OF COMPUTATIONS -

i. Adjust the number of hours for Units 2 and 3 to 12 hours and 13 hours, respectively.

D. MATHEMATICAL MODELLING -

i. The syllabus should be appropriately reduced.

E. <u>DISSERTATION -II</u> – About the distribution of marks.

i. Results and discussions should carry 40% marks, while presentations & seminars should carry a total of 40% marks. And for viva 20% of marks.

Action Points:

- 1. The lab syllabus of MATLAB should be updated to include:
 - a. MATLAB- 1st semester
 - b. Data analysis using $R 2^{nd}$ semester.
- The syllabus of Mathematical statistics should be revised and suggested to include stochastic process and the title may be changed into probability and stochastic process.
- 3. Include NPTEL lectures for the elective papers.
- 4. Include publisher names and volumes in every reference book.

5. Adjust the number of hours for each topic according to the requirements of the topics.

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Sl.	Name	Signature	Sl.	Name	Signature
No			No		
1	Dr. Biplab Kumar Rath	Day -	8	Dr. Tapas Ranjan Panigrahi	200
2	Dr. V. Ganesh	and a	9	Mr. Jagannadham	Du
3	Dr. Manas Ranjan Sarangi	Merango	10	Mr. Sidhant Kumar Sahu	Court
4	Dr. Boina Anil Kumar	Hair	11	Mr. Dumesh Meher	Day
5	Dr. Dipaniyoti Mohanty	9/2	12	Ms. B Priyanka Patro	Puyan
6	Dr. Laxmipriya Parida	Or .	13	Ms. G Deepika	4. Stown
7	Dr. Madhusudan Patro	Q .	14	Mr. Rajeeb Dash	Rejus

The open elective course will be offered by the department or one MOOC/NPTEL Course may be chosen by the student approved by the department.

As there is no other point, the meeting is ended with a vote of thanks by the Chairman BoS.

Chairman, BoS

Department of Mathematics

Copy Submitted for approval: Chairman BoG/Chairman (Academic Council)/Dean/HoD(SoS)

(Copy Submitted for reference: Registrar/CoE/Dean (Academic)/Dean (Administration)/Dean (R&D)/all concerned members

BoS Approved

Date:15.05.2024

ANNEXURE - II (A)

GIET UNIVERSITY, GUNUPUR

SCHOOL OF SCIENCES

DEPARTMENT OF MATHEMATICS

LIST OF EXAMINERS

SL. NO.	NAME OF THE MEMBER	DESIGNATION	MOBILE NO
1	Dr. Padmanava Samanta	Retd. Professor, Berhampur University.	9090512992
2	Dr. S. K. Paikray	Professor, VSSUT, Burla.	9437170125
3	Prof. U. K. Misra	Retd. Professor, Berhampur University.	9438000018
4	Dr. Biplab Kumar Rath	Associate Professor GIETU, Gunupur.	9437746902
5	Dr. V Ganesh	Assistant Professor GIETU, Gunupur.	7978002819
6	Dr. Laxmipriya Parida	Assistant Professor GIETU, Gunupur.	9776456722
7	Dr. Manas Ranjan Sarangi	Assistant Professor GIETU, Gunupur.	9776145166
8	Dr. Boina Anil Kumar	Assistant Professor GIETU, Gunupur.	9861963016
9	Dr. Tapas Kumar Panigrahi	Assistant Professor GIETU, Gunupur.	9337428994
10	Dr. Madhusudhan Patro	Assistant Professor GIETU, Gunupur.	9938898378

BoS Approved

Date:15.05.2024

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ANNEXURE - II (B)

GIET UNIVERSITY, GUNUPUR SCHOOL OF SCIENCES

DEPARTMENT OF MATHEMATICS

LIST OF QUESTION SETTERS

SL.	PAPER	NAME OF THE MEMBER	DESIGNATION	MOBILE NO
1	Functional analysis	Prof .Kasiviswandam	Asst. Prof IISER, Berhampur.	9559297116
2	Mathematical Statistics	Dr. A J Khan	Prof. MATS University.	88894 22786
3	Complex analysis	Dr. Bikramaditya Sahu	Asst. Prof., NIT Rourkela.	8456920529
4.	Partial Differential Equations	Dr. Tejaswini Pradhan	Asst. Prof., Kalinga University, Chhattisgarh.	9692684066
5	Abstract algebra	Dr. Manoj Kumar Singh	Asst. Prof., VIT Chennai.	9709775748
6	Linear Algebra	Dr. Smruti Ranjan Mohapatra	Associate Prof. VSSUT Burla.	9439510416
7	Graph Theory	Dr. S. K. Paikray	Professor, VSSUT Burla.	943/1/0123
8	Real analysis, ODE	Prof. U. K. Misra	Retd. Professor Berhampur University.	1 QZ 3XIIIIIIII
9	Numerical analysis	Dr. S. K. Pradhan	Associate Prof., VSSUT Burla	9583489086
10	Topology	Dr. T. Lingaraju	Associate Prof., Andhra University	6281301829

BoS Approved

Date15.05.2024

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M.Sc. MATHEMATICS (SEMESTER PATTERN) CHOICE BASED CREDIT SYSTEM (CBCS) TWO YEARS FULL TIME PROGRAMME COURSE OF STUDIES AR-24



GIET UNIVERSITY, GUNUPUR, ODISHA

All the precautions have been taken to print the course curriculum accurate. However, mistakes if any will be corrected as and when noticed. The university reserves the right to include /exclude any content at any point of time during the progression of the course.

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M.Sc. MATHEMATICS

Schedule for Instruction and Examination

(Proposed Scheme for Academic year 2024-2026)

1st Semester (1st Year)

Sl. No.	Course Category	Course Code	Course Title	L	T	P	Credits
110.	Category		THEORY				
1	PC	24MTPC1001	Linear Algebra	3	1	0	4
1		24MTPC1002	Real Analysis	4	0	0	4
2	PC	24MTPC1003	Numerical Analysis	3	1	0	4
3	PC		Ordinary Differential Equation	4	0	0	4
4	PC	24MTPC1004		3	1	0	4
5	PC	24MTPC1005	Programming in C				
		PR	ACTICAL / SESSIONAL		0	4	2
6	PC	24MTPC1105	Programming in C Lab	0	-	-	1
7	PC	24MTPC1106	Matlab	0	0	4	1
/	TC	TOT	ral.	17	3	8	23

2nd Semester (1st Year)

Sl.	Course	Course Code	Course Title		T	P	Credits
No.	Category		THEORY				
. 1	PC	24MTPC2001	Abstract Algebra	3	1	0	4
1		24MTPC2002	Complex Analysis	4	0	0	4
2	PC		Partial Differential Equations	3	1	0	4
3	PC	24MTPC2003	Programming Using Python	3	1	0	4
4	PC	24MTPC2004		4	0	0	4
5	PC	24MTPC2005	Graph Theory	<u> </u>	_		
		PR	ACTICAL / SESSIONAL			1	2
6	PC	24MTPC2104	Programming Using Python Lab	0	0	4	2
7	PC	24MTPC2105	Documentation Using Latex	0	0	4	1
/	TC	TO		16	4	8	23

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3rd Semester (2nd Year)

Sl. No.	Course Category	Course Code	Course Title		T	P	Credit s
			THEORY				
1	PC	24MTPC3001	Probability and Stochastic Processes	3	1	0	4
2	PC	24MTPC3002	Topology	4	0	0	4
3	PC	24MTPC3003	Number Theoretic Cryptography				
4	PE	24MTPE3011	Integral Transforms		0	0	4
		24MTPE3012	Fuzzy Set Theory			- 3	
		24MTPE3013	Introduction to Data Science		,		
		24MTPE3021	Optimization Techniques				
5	PE	24MTPE3022	Finite Element Methods	4	0	0	4
		24MTPE3023	Differential Geometry				
	PRACTICAL/ SESSIONAL						
6	PC	24MTPW3011	Dissertation – Phase I	0	0	4	2
		T	OTAL	18	2	4	22

4th Semester (2nd Year)

Sl. No.	Course Category	Course Code	Course Title		T	P	Credits
			THEORY				
1	PC	24MTPC4001	Functional Analysis	3	1	0	4
		24MTPE4011	Introduction to Machine Learning				
2	PE	24MTPE4012	Design and Analysis of Algorithms	4	0	0	4
		24MTPE4013	Linear Regression Analysis				
3		24MTPE4021	Theory of Computation				
	PE	24MTPE4022	Number Theory	3	0	0	3
		24MTPE4023	Mathematical Modelling				
4	OE	24MTOE4011	Ethics & IPR	3	0	0	3
	PRACTICAL / SESSIONAL						
5	PC	24MTPW4011	Dissertation – Phase II	0	0	16	8
							22

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M. SC. MATHEMATICS SYLLABUS STRUCTURE

(CREDIT- HOUR- MARKS SYSTEM 2024-2026)

Semester	Course	Course Title	Hours per Week	Credits	Exam Hours		Marl	KS		
Sej	Sentent of the sound of the sentent	L-T-P	L-T-P	L-T-P	Mid Sem	End Sem	Total			
	F In P. Kilay		THEORY	Y						
	24MTPC1001	Linear Algebra	4	4	3	40	60	100		
	24MTPC1002	Real Analysis	4	4	3	40	60	100		
	24MTPC1003	Numerical Analysis	. 4	4	3	40	60	100		
1	24MTPC1004	Ordinary Differential Equation	4	4	3	40	60	100		
	24MTPC1005 Programming in C		4	4	3	40	60	100		
	PRACTICAL / SESSIONAL									
	24MTPC1105	Programming in C Lab	4	2	3	0	100	100		
	24MTPC1106	MATLAB	2	1	3	0	50	50		
		TOTAL	26	23	21			650		
		Т	HEORY							
	24MTPC2001	Abstract Algebra	4	4	3	30	70	100		
2	24MTPC2002	Complex Analysis	4	4	3	30	70	100		
	24MTPC2003	Partial Differential Equations	4	4	3	30	70	100		
	24MTPC2004	Programming Using Python	4	4	3	30	70	100		
	24MTPC2005	Graph Theory	4	4	3	30	70	100		

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	PRACTIO	CAL / SE	ESSIONAI				
24MTPC2104	Programming Using Python Lab	4	2	3	0	100	100
24MTPC2105	Documentation using LATEX	2	1	3	0	50	50
	TOTAL	26	23	21	- 1		650

BOS Members:

.Sl. No	Name of the member Signat	ture Sl. No	Name of the member Signature
1	Dr. P. Vijaya Kumar	2	Prof. (Dr.) Vasudeva Rao A Vand
3	Dr. Biplab Kumar Rath	4	Dr. V. Ganesh
5	Dr. Dipana J. Mohanty	6	Dr. Manas R. Sarangi Mlanary
7	Dr. Boina Anil Kumar	8	Dr. Madhusudan Patro
9	Dr. Tapas R. Panigrahi	10	Dr. Laxmipriya Parida
11	Mr. N Jagannadham	12	Mr. Sidhant Kumar Sahu
13	Mr. Dumesh Meher Dumesh	14	Ms. G. Deepika Legika
15	Ms. B. Priyanka Patro Recomb	16	Mr. Rajeeb Dash
	V		

BoS Approved

HOD, Mathematics

Dean, School of Sciences

Dean, Academics

Date: 15 15.24

School of Sciences

GIET University

GIET University

M. SC. MATHEMATICS SYLLABUS STRUCTURE (CREDIT- HOUR- MARKS SYSTEM 2024-2026)

Semester	Course	Course Title	Hours per Week	Credits	Exam Hours	Marks				
	The control of the co		L-T-P	L-T-P	L-T-P	Mid Sem	End Sem	Total		
		T the state of the	HEORY							
	24MTPC3001	Probability and Stochastic Processes	4	4	3	30	70	100		
	24MTPC3002	Topology	4	4	3	30	70	100		
	24MTPC3003	Number Theoretic Cryptography	4	4	3	30	70	100		
	24MTPC3011	Integral Transforms		4	3	30	70			
	24MTPC3012	Fuzzy Set Theory	4					100		
3	24MTPC3013	Introduction to Data Science								
	24MTPE3031	Optimization Techniques		4	3	30	70	100		
	24MTPE3032	Finite Element Methods	4					100		
	24MTPE3033	Differential Geometry								
	PRACTICAL / SESSIONAL									
	24MTPW3011 Dissertation – Phase I		4	2	3	0	0	100		
		TOTAL	24	22	18			600		
	THEORY									
	24MTPC4001	Functional Analysis	4	4	3	30	70	100		
4	24MTPE4011	Introduction to Machine Learning	4	4	3	30	70	100		
	24MTPE4012	Design and Analysis of Algorithms								
	24MTPE4013	Linear Regression Analysis								
	24MTPE3011	Theory of Computation	4	3	3	30	70	100		
	24MTPE3011	Number Theory								

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24MTPE301	Mathematical Modelling		3	3	30	70	100	
24MTOE301	Ethics & IPR	4	3	3	30	1		
	PRACTICAL / SESSIONAL							
24MTPW40	1 Dissertation – Phase II	16	8	6			400	
24MTPW40	1 Dissertation – Phase II TOTAL		8 22	6			400 800	

DOG	Mem	hers:
DUS	TATCHE	DCI D.

OS MEIII		Signature	Sl. No	Name of the member	Signature
Sl. No	Name of the member	Signature	51. 110		1 10
1	Dr. P. Vijaya Kumar	Mushin	2	Prof. (Dr.) Vasudeva Rao	Vony
3	Dr. Biplab Kumar Rath	Dorly	4	Dr. V. Ganesh	
5	Dr. Dipana J. Mohanty	1	6	Dr. Manas R. Sarangi	araby.
7	Dr. Boina Anil Kumar	Kan	8	Dr. Madhusudan Patro	
9	Dr. Tapas R. Panigrahi	NO.	10	Dr. Laxmipriya Parida	chal
11	Mr. N Jagannadham	0-	12	Mr. Sidhant Kumar Sahu	450 \
13	Mr. Dumesh Meher	nin	14	Ms. G. Deepika	llepth I
15	Ms. B. Priyanka Patro	July 2	16	Mr. Rajeeb Dash	2

BoS Approved

HOD, Mathematics

Dean, School of Sciences

Dean, Academics

Date: 15. 15.24

School of Sciences

GIET University

GIET University

SCHEME OF INSTRUCTIONS SUMMARY

		CR	TOTAL CREDITS				
Sl. No	COURSEWORK SUBJECTS AREA	I	II	III	IV	Total	%
		650 Marks	650 Marks	600 Marks	800 Marks	2700 Marks	
1	Professional Course (PC)	23	23	12	4	62	69
2	Professional Electives (PE)	-	-	8	4	12	13
3	Choice Based Open Electives (CBOE)/ Open Electives (OE)		-		6	6	7
4	Project Work, Seminar and/or Internship in Industry or Elsewhere (PC)	-	-	2	8	10	11
5	Value added Courses /MOOCS					·	
	TOTAL	23	23	22	22	90	100

BOS Members:

Date:

US Mem	bers:				
Sl. No	Name of the member	Signature	Sl. No	Name of the memb	er Signature
1	Dr. P. Vijay Kumar	Julia	2	Prof. (Dr.) Vasude Allu	eva Rao
3	Dr. Biplab Kumar Rath	orgi	4	Dr. V. Ganesh	Lyount
5	Dr. Dipana J. Mohanty	Zb.	6	Dr. Manas R. Saran	gi Meanangs.
7	Dr. Boina Anil Kumar	our)	8	Dr. Madhusudan Pa	tro 4
9	Dr. Tapas R. Panigrahi	20	10	Dr. Laxmipriya Pari	
11	Mr. N Jagannadham	Non	12	Mr. Sidhant Kumar	
13	Mr. Dumesh Meher	JAN DE LA CONTRACTION DE LA CO	14	Ms. G. Deepika	Julegula Daries
15	Ms. B. Priyanka Patro	uyanle	16	Mr. Rajeeb Dash	Daleus
BoS	Approved HOD,	Mathematics	Ju De	ean, School of Sciences	Dean, Academics

School of Sciences

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