



SCHOOL OF ARTS AND SCIENCE

DEPARTMENT OF MATHEMATICS

MINUTES OF BOARD OF STUDIES 7th MEETING

Venue

Department of Mathematics
School of Arts and Science (Block)
Sri Manakula Vinayagar Engineering College

Date & Time 20.03.2024 & 10.00 am to 12.30 pm

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DEPARTMENT OF MATHEMATICS

Minutes of Board of Studies 7th Meeting

The Board of Studies 7th meeting was held on 20.03.2024 (Wednesday) at 10.15 A.M in the Department of Mathematics, School of Arts and Science college, Sri Manakula Vinayagar Engineering College, with Head of the Department in the Chair.

The following members were present for the BoS meeting

Sl.No	Name of the Member with Designation and official Address	Members as per UGC norms
1	Dr. T. Gayathri M.Sc., M.Phil., Ph.D. Professor and Head Department of Mathematics Sri Manakula Vinayagar Engineering College Puducherry—605107 gayathrithiyagu@smvec.ac.in/ 9486580058	Chairman
2	Dr. S. Tamilselvan M.Sc., M.Phil., Ph.D. Professor & Head Department of Mathematics Annamalai University, Chidambaram- 608 002 stamilselvan@hotmail.com/9443073937	Subject Expert (University Nominee)
3	Dr. P. Balaji M.Sc., M.Phil., Ph.D. Assistant Professor (Stage II) Department of Mathematics SCSVMV university, Kanchipuram-631561 pbr1002017@gmail.com/9486082115	Subject Expert (Academic Council Nominee)
4	Dr. S. Srinivasan M.Sc., M.Phil., Ph.D. Assistant Professor Department of Mathematics Periyar Government Arts and Science College, Cuddalore -607003 smrail@gmail.com/7010939424	Subject Expert (Academic Council Nominee)
5	Dr.R.Vijayaragunathan M.Sc., M.Phil., Ph.D Assistant Professor and Head Department of Statistics Indira Gandhi College of Arts and Science Puducherry rvijayaragunathan@gmail.com / 9443849615	Expert
6	Mr. G. Indragoby Associate Director Sensipe Software Solutions(p)Ltd Chennai indragoby@gmail.com/98432223234	Member (Representative from Industry)
7	Mr.P.Krishnamoorthy M.Sc., M.Phil. Assistant Professor Department of Mathematics Sri ManakulaVinayagar Engineering College Puducherry— 605107 krishnamoorthymaths@smvec.ac.in/9750028056	Internal Member
8	Dr.B.Kanimozhi M.Sc., M.Phil.,Ph.D. Professor	Internal Member

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	Department of Mathematics	
	Department of Mathematics Sri ManakulaVinayagar Engineering College	
	Puducherry– 605107 kanimozhimaths@smvec.ac.in /7708824215	
	Mr. R. Sivakumar M.Sc., M.Phil. Assistant Professor	
9	Department of Mathematics	Internal Member
	Sri Manakula Vinayagar Engineering College	
	Puducherry- 605107	
	sivakumarmaths.sas@smvec.ac.in /8667646837	
	Mr. D. Gnanavel M.Sc., M.Phil.	
	Assistant Professor	
10	Department of Mathematics	Internal Member
10	Sri ManakulaVinayagar Engineering College	
	Puducherry– 605107	
	gnanavel.sas@smvec.ac.in/9629123962	
	Mrs.S.P.Lavanya M.Sc., M.Phil.	
	Assistant Professor	
11	Department of Mathematics	Internal Member
11	Sri ManakulaVinayagar Engineering College	
	Puducherry– 605107	
	<u>lavanya@smvec.ac.in</u> /9655887720	
	Mrs. S Geetha M.Sc., M.Phil.	
	Assistant Professor	
12	Department of Physics	Internal Member
12	Sri ManakulaVinayagar Engineering College	
	Puducherry– 605107	
	geethaphysics@smvec.ac.in /9942355656	
	Dr. K. Karthikeyan M.Sc., M.Phil., Ph.D.	
	Associate Professor	
12	Department of Chemistry	Internal Member
13	Sri ManakulaVinayagar Engineering College	
	Puducherry– 605107	
	karthikeyank2005@gmail.com /9344707262	
	Mr.M.ElamaranM.A., M.Phil.	
	Assistant Professor	
1.4	Department of English	Internal Member
14	Sri Manakula Vinayagar Engineering College	internal Memoer
	Puducherry - 605107	
	elamaraneng@smvec.ac.in/ 9500712597	



AGENDA OF THE MEETING

Item No.: BoS/2024/SAS/UG/MATHEMATICS/ 7 .1

Welcome address, Introduction about the Institution, Department and BoS Members.

Item No.: BoS/2024/SAS/UG/ MATHEMATICS / 7.2

To review and confirm the minutes of the 6th BoS meeting held on November 22,2023.

Item No.: BoS/2024/SAS/UG/ MATHEMATICS / 7.3

To discuss the criteria for fixing (MJD) Major Disciplinary Courses, (MID) Minor Disciplinary Courses, (MLD) Multi-Disciplinary Courses, (AEC) Ability Enhancement Courses, (SEC) Skill Enhancement Courses and (VAC) Value Added Courses from semesters I - VIII.

Item No.: BoS/2024/SAS/UG/ MATHEMATICS / 7.4

To discuss and revise the curriculum (I – VIII semester) and syllabi (I and II semester) for B.Sc. Mathematics programme based on National Education Policy (NEP) under Regulations R- 2023

Item No.: BoS/2024/SAS/UG/ MATHEMATICS / 7.5

To discuss the already approved syllabus of semester I and II.

Item No.: BoS/2024/SAS/UG/ MATHEMATICS / 7.6

To add Value Added Course – Understanding India in II semester.

Item No.: BoS/2024/SAS/UG/ MATHEMATICS / 7.7

Any other item with the permission of the chair.

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MINUTES OF THE MEETING

Item No.:	Welcor	me address. Int		out the Institution, De	epartment a	and BoS Members.				
BoS/2024/SAS/ UG / B.Sc. Mathematics 7.1		The Chairman	of the meetin	•	the hon'ble	members of the Board and				
	To review and confirm the minutes of the 6th BoS meeting held on November 22,2023. Suggestions were given by BoS members for the II semester courses in the 6th BoS meeting. These suggestions were incorporated in the syllabi and approved by the expert members and Recommended to Academic Council.									
	S.No	Regulation	Semester	Course Title/ Course Code	Unit	Particulars				
Item No.: BoS/2024/SAS/	1	R2023	II	VECTOR CALCULUS A23MAT203D	V	Suggested to shift Stoke's Theorem into Unit IV				
UG / B.Sc. Mathematics 7.2	1	R2023	II	VECTOR CALCULUS A23MAT203D	IV	Suggested to shift Volume of integral into Unit V				
	2	R2023	II	ORDINARY DIFFERENTIAL EQUATIONS A23MAT204D	IV	Suggested to shift Solving Homogeneous linear equations (Cauchy- Euler Equations) into Unit V				
	[Detai	ils are Attache	d in Annexu	re I]						
Item No.: BoS/2024/SAS/ UG / B.Sc. Mathematics 7.3	Discip Cours semes	es, (SEC) Ski es, (SEC) Ski sters I - VIII. The board m Disciplinary (Courses, (AE (VAC) Value NEP Regular	es, (MLD) M ill Enhancen embers appr Courses, (MII EC) Ability Er Added Cour- tions 2023 of	ulti-Disciplinary Conent Courses and (reciated the criteria for D) Minor Disciplinary hancement Course ses with credit district Pondicherry University	for fixing the y Courses, (SEC) Section from the street, which is the st					
Item No.: BoS/2024/SAS/ UG / B.Sc. Mathematics 7.4	for B.S Regulation Services Se	 (VAC) Value Added Courses with credit distribution from semesters II − VIII based on NEP Regulations 2023 of Pondicherry University. To discuss and revise the curriculum (I − VIII semester) and syllabi (I and II semester) for B.Sc. Mathematics programme based on National Education Policy (NEP) under Regulations R- 2023. Discussed the curriculum framework for the UG programme B.Sc. Mathematics for semesters (II to VIII) based on NEP Regulations 2023 of Pondicherry University and the same was recommended to Academic Council. The framed Curriculum (I to VIII) and II semester syllabus are given in Annexure II. 								



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	To dis	cuss the alre	ady approve	ed syllabus of sei	mester I an	d II.			
	The Syllabus for First and Second Semester Courses for B.Sc.Mathematics under Regulations								
	·								
	2023 presented before the BOS members. The following suggestions were given by BoS								
	members.								
Item No.:	These suggestions were incorporated in the syllabi and approved by the expert members								
BoS/2024/SAS/	and Ro	ecommended	to Academi	c Council.					
UG / B.Sc. Mathematics	C.N.s. Danielskins			Course Title/					
7.5	S.No Regulation	Semester	Course Code	Unit	Particulars				
		R2023	II	MATRICES		Suggested to Rename as			
				AND THEORY	IV and V	Theory of equations			
	1			OF		Continuation			
				EQUATIONS		Continuation			
				A23MAT102D					
				MATRICES AND THEORY		Suggested to include			
	$\begin{vmatrix} 1 \end{vmatrix}$			OF	IV	Descarte's Rule also in unit			
	1			EQUATIONS	1 V	IV			
				A23MAT102D					
	[Detail	s are Attached	l in Anneyuu						
Item No.:					-1! - ! II				
BoS/2024/SAS/	ro add	a value Adde	a Course –	Understanding In	dia in ii ser	nester.			
UG / B.Sc.	*	Members ap	preciated the	inclusion of Under	rstanding In	dia in II semester and the			
Mathematics		•		approved II semes	•				
7.6									
Item No.: BoS/2024/SAS/									
UG / B.Sc.	Any of	her agenda –	Nil						
Mathematics	- 111, 00	~5-							

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The meeting was concluded at 10:00 PM with vote of thanks by **Dr. T. Gayathri**, Chairman, Board of Studies, Department of Mathematics, Sri Manakula Vinayagar Engineering College.

Sl.No	Name of the Member with Designation	Members as per	Signature
D11110	and official Address	UGC norms	
1	Dr. T. Gayathri M.Sc., M.Phil., Ph.D. Professor and Head Department of Mathematics Sri Manakula Vinayagar Engineering College Puducherry—605107	Chairman	T. Gar
2	gayathrithiyagu@smvec.ac.in/ 9486580058 Dr. S. Tamilselvan M.Sc., M.Phil., Ph.D. Professor & Head Department of Mathematics Annamalai University, Chidambaram- 608 002 stamilselvan@hotmail.com/9443073937	Subject Expert (University Nominee)	marile, Jam
3	Dr. P. Balaji M.Sc., M.Phil., Ph.D. Assistant Professor (Stage II) Department of Mathematics SCSVMV university, Kanchipuram-631561 pbr1002017@gmail.com/9486082115	Subject Expert (Academic Council Nominee)	P. Balay?
4	Dr. S. Srinivasan M.Sc., M.Phil., Ph.D. Assistant Professor Department of Mathematics Periyar Government Arts and Science College, Cuddalore -607003 smrail@gmail.com/7010939424	Subject Expert (Academic Council Nominee)	Soinası
5	Dr.R.Vijayaragunathan M.Sc., M.Phil., Ph.D Assistant Professor and Head Department of Statistics Indira Gandhi College of Arts and Science Puducherry rvijayaragunathan@gmail.com/ 9443849615	Expert	D. yeuenth
6	Mr. G. Indragoby Senior Technical Architect HCL Technologies, Chennai indragoby@gmail.com/98432223234	Member (Representative from Industry)	Patrole).
7	Mr.P.Krishnamoorthy M.Sc., M.Phil. Assistant Professor Department of Mathematics Sri ManakulaVinayagar Engineering College Puducherry— 605107 krishnamoorthymaths@smvec.ac.in /9750028056	Internal Member	P.N.
8	Dr.B.Kanimozhi M.Sc., M.Phil.,Ph.D. Professor Department of Mathematics Sri ManakulaVinayagar Engineering College Puducherry— 605107 kanimozhimaths@smvec.ac.in	Internal Member	B. Or



	/7708824215		
9	Mr. R. Sivakumar M.Sc., M.Phil. Assistant Professor Department of Mathematics Sri ManakulaVinayagar Engineering College Puducherry— 605107 sivakumarmaths.sas@smvec.ac.in /8667646837	Internal Member	RSiz
10	Mr. D. Gnanavel M.Sc., M.Phil. Assistant Professor Department of Mathematics Sri ManakulaVinayagar Engineering College Puducherry– 605107 gnanavel.sas@smvec.ac.in/9629123962	Internal Member	D.75
11	Mrs.S.P.Lavanya M.Sc., M.Phil. Assistant Professor Department of Mathematics Sri ManakulaVinayagar Engineering College Puducherry— 605107 lavanya@smvec.ac.in /9655887720	Internal Member	S.P. Ja
12	Mrs. S Geetha M.Sc., M.Phil. Assistant Professor Department of Physics Sri ManakulaVinayagar Engineering College Puducherry— 605107 geethaphysics@smvec.ac.in/9942355656	Internal Member	Grew
13	Dr. K. Karthikeyan M.Sc., M.Phil., Ph.D. Associate Professor Department of Chemistry Sri ManakulaVinayagar Engineering College Puducherry— 605107 karthikeyank2005@gmail.com /9344707262	Internal Member	de la comp
14	Mr.M.ElamaranM.A., M.Phil. Assistant Professor Department of English Sri ManakulaVinayagar Engineering College Puducherry - 605107 elamaraneng@smvec.ac.in/ 9500712597	Internal Member	

Chairman/BOS Dean SAS Dean Academics Director cum Principal (Dr. T.Gayathri) (Dr. S. Muthulakshmi) (Dr. A. A. Arivalagar) (Dr. V. S. K. Venkatachalapathy)

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ANNEXURE I

		INEXURE									
Department	MATHEMATICS			•••••	thematics)						
Semester	Second			.	: DSC *End	············	······	•			
Course Code	A23MAT203D		ds / We	7	Credit		imum Ma	······			
O N	VEOTOD OALOULUO	L	T	Р	С	CAM	ESE	TM			
Course Name	VECTOR CALCULUS	3	1	0	4	25	75	100			
Prerequisite	Mathematics should be a subject in +2.			<u> </u>							
	To enable students to Understand the fu	ndamental d	concept	s of vect	tor calculus						
	To enable the students to learn the conc	epts of diffe	rentiatio	on of vec	tors.						
Course	To find solutions of Solenoidal and Irrotational.										
Objectives	To know about the line integral.										
	To bring the knowledge of vector calculus	s and its app	lication	in theor	ems						
	On completion of the course, the stude	ents will be	able to)			BT M (Highes	apping st Leve			
	CO1 Understand the concept of Direction cosines and direction ratios										
	CO2 Gain logical skills in the formulation of differential equations										
Course	CO3 Compute divergence and curl of v	ectors.					ŀ	K3			
Outcome	CO4 Apply the various techniques of integrals.	of vector int	egratior	n in sol	ving Line	and surfac	e p	К3			
	CO5 Understand the concept of Gauss	s Divergence	e Theor	em and	Green's Th	eorem	ŀ	∢ 3			
JNIT-I	INTRODUCTION				Periods: 1	12	•••••				
 Position version – Co 	- Scalars and vectors – Representation ectors – Resolution of vectors – Direction of vector function	ction cosine			on ratios	– Limit o					
UNIT-II	DIFFENENTIAL VECTOR CALCULUS				Periods: 1						
	n of a vector – Geometrical Interpre n of dot and cross Products – Partial De GRADIENT, DIVERGENCE AND CURL	erivatives o				of Vectors		_ CO2			
nterpretation	ential Operator Del - Gradient of a solution of the sum of Functions; of volving Del - Divergence of a Vector a pretation - Expansion Formulae for Op	Scalar Fur the produc and its Phys	ct of fur sical In	nctions terpreta	and of a fation - Cur	unction of I of a Vec Ind Irrotati	function tor and i	ı - CO			
JNIT-IV	VECTOR INTEGRATION gral - Surface Integral and its Physical	Meaning –	Stoke's	s Theor				CO			
JNIT-IV The Line Inte	vector integration gral - Surface Integral and its Physical	Meaning –	Stoke's	s Theoi	<mark>em</mark>			СО			
JNIT-IV The Line Inte JNIT-V	VECTOR INTEGRATION				<mark>rem</mark> Periods: 1	12					
JNIT-IV The Line Inte JNIT-V	vector integration gral - Surface Integral and its Physical vector integration(contd.) brem, Gauss Divergence Theorem and		integra	a <mark>l</mark> - Simp	<mark>rem</mark> Periods: 1 ble probler	12	ds: 60	СО			

3. Shanti Narayan, P. K. Mittal, A Text Book of Vector Analysis (English) 19th Edition, S.Chand Publishers, 2013.

Reference Books

- 1. P.R.Vittal. (2004) Vector Calculus, Fourier series and Fourier Transform. Margham Publications, Chennai.
- 2. G.B.Thomas and R.L.Finney. (1998) Calculus and Analytic Geometry, Addison Wesley (9th Edn), Mass. (Indian Print).
- 3. M.K. Venkataraman. (1992) Engineering Mathematics-Part B. National Publishing Company, Chennai.
- 4. B.S.Grewal. Higher Engineering Mathematics (2002), Khanna Publishers, New Delhi.

Web References



- 1. https://www.lehman.edu/faculty/anchordoqui/VC-3.pdf
- 2. https://www.rcet.org.in/uploads/files/LectureNotes/cse/S2/Mathematics%20-%20Il%20Notes/Unit-2%20Vector%20Calculus.pdf
- 3. https://www.snggdcg.ac.in/pdf/study-material/mathematics/SMch18.pdf

COs/POs/PSOs Mapping

Cos		Progra	am Outcome	Program Specific Outcomes (PSOs)				
COS	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3
1	2	2	3	2	3	2	3	1
2	3	2	3	3	1	3	3	1
3	3	2	2	3	3	2	3	1
4	2	3	2	3	3	2	2	2
5	3	2	3	3	1	3	2	1

Correlation Level: 1 - Low, 2 - Medium, 3 - High

Evaluation Method

Assessment		Conti	nuous Asse	End Semester	Total		
	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Examination (ESE) Marks	Marks
Marks	10		5	5	5	75	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus



^{*} TE – Theory Exam, LE – Lab Exam

Department	MATH	IEMATICS				athematics)						
Semester	Secon	d	Course	Catego	ry Code	e: DSC *End	Semester	Exam Typ	ре: ТЕ			
Course Code	Δ23N	IAT204D	Peric	ds / We	eek	Credit	Max	kimum Ma	rks			
Oddisc Oddc	AZJI	1712070	L	Т	Р	С	CAM	ESE	TM			
Course Name	:	NARY DIFFERENTIAL ATIONS	3	1	0	4	25	75	100			
Prerequisite	Mather	matics should be a subject in +2.		<u> </u>								
•	To ide	entify an ordinary differential equa	ition and its or	der.								
	To eva	aluate first order differential equa	tions.									
Course	ļ	To find solutions of exact equations.										
Objectives		w about the particular integral.										
		ve differential equations using var	riation of para	meter.								
		mpletion of the course, the stu						BT Ma	apping			
		,						(Highes				
	CO1 Understand the order, degree of differential equation.							K	2			
	CO2	Determine solutions to first orde	K2									
Course	CO3	Familiarize the orthogonal traject	ctory of the sy	stem o	f curves	on a given	surface.	К3				
Outcome	CO4	Solving linear differential equati	on with consta	ant coe	fficient.			K	3			
	CO5	Find the complete solution of a variation of Parameter.	differential eq	uation	with cor	nstant coefficients by K3			.3			
UNIT-I	FIRST	ORDER DIFFERENTIAL EQ	UATIONS			Periods: 1	2					
Differential Equ	uation, C	Order and Degree of a Differentia	I equation – F	ormati	on of a	differential e	equation –	Wronskia	n			
– definition – lir		ependent and independent set of					-		CO			
UNIT-II	<u>i</u>	CT DIFFERENTIAL EQUATION				Periods: 1						
differential equ	ation of	r and first degree – separatior first order and first degree to be near form (Bernoulli's equation).										
UNIT-III	······ y ·······	ERENTIAL EQUATIONS				Periods: 1	2		i			
		nal trajectories (cartesian and pola in Clairaut's form - General and s			quation s	solvable for p	o – Equati	on solvabl	le CO:			
UNIT-IV		ERENTIAL EQUATIONS (HIC				Periods: 1	2					
Linear different		tions with constant coefficients -			ary func	tion and Par	ticular Inte	grals of	CO4			
	•	$e^{ax} X$ where X is a function of x	• .		,			J				
UNIT-V		ERENTIAL EQUATIONS WIT	TH VARIABL	.E		Periods: 1	2					
Solving Homod	<u> </u>	linear equations (Cauchy- Euler	Equations) -	Equation	n reduc	ible to Hom	ogeneous	linear form	n _			
	near equ	uations) –Method of variation of										
Lecture Period		Tutorial Periods: 15	Practica	al Perio	ods: -	T	otal Perio	ds: 60	<u>i</u>			
Text Books		*				ii						
2. E. A. Coddii 3. S. C. Deo, \	ngton, ". ⁄. Laksh	"Ordinary and Partial Differential An Introduction to Ordinary Differ mi Nathan and V. Raghavendra,	ential Equation	ns", Pr	entice F	lall of India,	1991.					

Reference Books

Tata McGraw Hill, New Delhi, 2nd Edition, 2002.

- 1. S.Narayanan, T.K. Manickavachagom Pillal, "Differential Equations and its Applications", Viswanathan Printers & Publishers Pvt. Ltd., 2015.
- 2. Dr. Arumugam and Mr. A. Thangapandi Issac, "Differential Equations and its Applications", New Gamma Publishing House, 2014.
- 3. E. A. Coddington and H. Davinson, "Theory of Ordinary Differential Equations", McGraw Hill, 1955.



Web References

- 1. https://mathworld.wolfram.com/OrdinaryDifferentialEquation.html
- 2. https://nptel.ac.in/courses/111/106/111106100/ 3. https://www.youtube.com/watch?v=FU-7xJLpoWg.

COs/POs/PSOs Mapping

Cos		Progra	am Outcome	Program Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3
1	3	2	3	2	3	2	3	1
2	3	2	3	2	1	3	2	1
3	3	2	3	3	3	2	3	1
4	2	3	2	3	3	3	2	2
5	3	2	3	3	1	3	2	1

Correlation Level: 1 - Low, 2 - Medium, 3 - High

Evaluation Method

		Conti	nuous Asse	End Semester	Total			
Assessment	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Examination (ESE) Mark		
Marks	10		5	5	5	75	100	

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus



^{*} TE – Theory Exam, LE – Lab Exam

ANNEXURE II

CURRICULUM (I – VIII semester) AND II SEMESTER SYLLABUS

		SE	MESTER - I							
SI.	Course Code	Course Title	Category	P	erio	ls	Credits	М	ax. Mar	(S
No.		Oddrac Title	Category	L	T	Р	Orcaits	CAM	ESM	Total
Theo	1	T=				1	Т		1	
1	A23TAT101C / A23FRT101C	Tamil-I / French - I	MIL	3	0	0	3	25	75	100
2	A23GET101C	General English I	ENG	3	0	0	3	25	75	100
3	A23MAT101D	Calculus	DSC	3	1	0	4	25	75	100
4	A23MAT102D	Trigonometry	DSC	3	1	0	4	25	75	100
5	A23PHD101D	Allied physics	IDC	3	1	0	4	25	75	100
Pract	ical									
6	A23PHL109D	Allied Physics practical	IDC	0	0	4	2	50	50	100
Skill	Enhancement Cour	ses	•		ı	I			•	
7	A23ENSA02C	Soft Skills	SEC	0	0	4	2	100	0	100
Abilit	y Enhancement Co	urse			•	•			•	
8	A23AETA01C	Public Administration	AEC	2	0	0	1	100	0	100
Empl	oyability Enhancen	nent Course			•					
9	A23MAC101D	Certificate Course-I	EEC	0	0	4	-	100	0	100
							23	475	425	900

		SEM	ESTER - II							
SI.	Course Code	Course Title	Category	Pe	erioc	ls	Credits	M	lax. Mark	(S
No.	Jourse Joue	oodise inic	Oategory .	L	T	Р	Orcuits	CAM	ESM	Total
1	A23MAT203D	MATRICES AND THEORY OF EQUATIONS	MJD	3	1	0	4	25	75	100
2	A23MAT204D	VECTOR CALCULUS	MJD	3	1	0	4	25	75	100
3	A23MAD202D	STATISTICS - II	MID	3	1	0	4	25	75	100
4	A23ENSA03C	COMMUNICATION SKILLS	MLD	3	0	0	3	25	75	100
5	A23TAT202C / A23FRT202C	TAMIL II / FRENCH II	AEC	3	0	0	2	25	75	100
6	A23GET202C	ENGLISH II	AEC	3	0	0	2	25	75	100
7	A23MAS201D	LOGICAL REASONING	SEC	0	0	6	3	50	50	100
8	A23VAC201C	UNDERSTANDING INDIA	VAC	2	0	0	2	100	0	100
9	A23VAC202C	ENVIRONMENTAL STUDIES	VAC	2	0	0	2	100	0	100
Empl	oyability Enhance	ement Course								
10	A23MAC202D	Certificate Course-II	EEC	0	0	4	-	100	0	100
		·					26	500	500	1000



		SEME	STER – III							
SI.	Course Code	Course Title	Category	Р	erioc	ls	Credits	Ma	ax. Mark	(S
No.				L	Т	Р		CAM	ESM	Total
1	A23MAT305D	REAL ANALYSIS I	MJD	3	1	0	4	25	75	100
2	A23MAT306D	ELEMENTS OF DISCRETE MATHEMATICS	MJD	3	1	0	4	25	75	100
3	A23MAD303D	STATISTICS - III	MID	3	1	0	4	25	75	100
4	4 A23XXXXXX PERSONAL FINANCE MLD 3 0 0						3	25	75	100
5	A23GET303C	ENGLISH	AEC	3	0	0	2	25	75	100
6	A23MAS302D	LATEX	SEC	0	0	6	3	50	50	100
7	A23VAC303C	HEALTH AND WELLNESS, YOGA EDUCATION, SPORTS AND FITNESS	VAC	2	0	0	2	100	0	100
Emple	Employability Enhancement Course									
10	10 A23MAC303D Certificate Course-III EEC 0 0 4								0	100
	·						22	375	425	800

		SEMI	ESTER - IV							
SI.	Course Code	Course Title	Category	Р	erioc	ls	Credits	Ma	ax. Mark	(S
No.			3 ,	L	T	Р		CAM	ESM	Total
1	A23MAT407D	Real Analysis II	MJD	3	1	0	4	25	75	100
2	A23MAT408D	Group Theory	MJD	3	1	0	4	25	75	100
3	A23MAT409D	Elements of Differential Equations	MJD	3	1	0	4	25	75	100
4	A23MAD404D	Statistics - IV	MID	3	1	0	4	25	75	100
5	A23VAC404C	Digital and Technological Solutions	VAC	2	0	0	2	100	0	100
6	A23MAN401D	Community Engagement	SKD	2	0	6	2	50	50	100
Empl	oyability Enhancem	•	•		•	•				
11	11 A23MAC404D Certificate Course-IV EEC 0 0 4								0	100
							20	350	350	700



		SEME	STER - V							
SI.	Course Code	Course Title	Category	Р	eriod	ls	Credits	Ma	ax. Mark	(S
No.				L	T	Р		CAM	ESM	Total
1	A23MAT510D	MATHEMATICAL MODELING	MJD	3	1	0	4	25	75	100
2	A23MAT511D	RING THEORY	MJD	3	1	0	4	25	75	100
3	A23MAT512D	COMPLEX ANALYSIS I	MJD	3	1	0	4	25	75	100
4	A23MAT513D	FOURIER SERIES AND FOURIER TRANSFORM	MJD	3	1	0	4	25	75	100
5	A23MAD505D	OPERATIONS RESEARCH I	MID	3	1	0	4	25	75	100
6	6 A23XXXXXX SUMMER INTERNSHIP SKD 0 0 6							50	50	100
			24	175	425	600				

		SEMES	STER - VI							
SI.	Course Code	Course Title	Category	Р	eriod	ls	Credits	Ma	ax. Mark	(S
No.				L	T	Ρ		CAM	ESM	Total
1	A23MAT614D	PROGRAMMING USING SCILAB -THEORY & PRACTICAL	MJD	3	1	0	4	25	75	100
2	A23MAT615D	COMPLEX ANALYSIS II	MJD	3	1	0	4	25	75	100
3	A23MAT616D	INTRODUCTION TO LINEAR ALGEBRA	MJD	3	1	0	4	25	75	100
4	A23MAT617D	GRAPH THEORY I	MJD	3	1	0	4	25	75	100
	A23MAD606D OPERATIONS RESEARCH MID 3 1 0								75	100
						20	125	375	500	

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		SEMES	STER - VII							
SI.	Course Code	Course Title	Category	Р	erioc	ls	Credits	Ma	ax. Mark	(S
No.	000000000		category	L	T	Р		CAM	ESM	Total
1	A23MAT718D	4	25	75	100					
2	A23MAT719D	MECHANICS I (STATICS)	MJD	3	1	0	4	25	75	100
3	A23MAT720D	GRAPH THEORY II	MJD	3	1	0	4	25	75	100
4	A23MAD707D	FUZZY ALGEBRA	MID	3	1	0	4	25	75	100
	A23MAD708D BESSEL'S FUNCTIONS MID 3 1 0							25	75	100
					•	•	20	125	375	500

		SEME	STER - VIII							
SI.	Course Code	Course Title	Category	Р	erioc	ls	Credits	M	ax. Mar	ks
No.				L	Т	Р		CAM	ESM	Total
1	A23MAT821D	TOPOLOGY	MJD	3	1	0	4	25	75	100
2	A23MAT822D	0	4	25	75	100				
3	A23XXE6XXX	RESEARCH PROJECT OR 3 MAJOR DISCIPLINARYCOURSES	MID	3	1	0		50	50	100
4	A23MAT823D	DIFFERENTIAL GEOMETRY	MJD	3	1	0	12	25	75	100
	A23MAT824D	FUNCTIONAL ANALYSIS	MJD	3	1	0		25	75	100
	A23MAT825D NUMBER THEORY MJD 3 1 0								75	100
							20	100/12 5	200/3 75	300/500



Department	MATHEMATICS	Prograi	nme: B	.Sc (Ma	thematics)							
Semester	Second	Course	Catego	ory Code	: MJD *Er	d Semester	Exam Ty	ре: ТЕ					
Course Code	A23MAT203D	Peri	ods / W	eek	Credit	Max	imum Ma	rks					
Oddisc Oddc	AZSIMATZOOD	L	Т	Р	С	CAM	ESE	TM					
Course Name	MATRICES AND THEORY OF EQUATIONS	3	1	0	4	25	75	100					
Prerequisite	Mathematics should be a subject in	n +2.											
-	To introduce the idea of matrices an	ıd to learn abou	it the al	lgebra o	f matrices								
	To solve system linear equations usi												
Course Objectives	To develop the concept of the Sum of	of the powers of	the roc	ots.									
•	To introduce variety roots.												
	To study the concept of biquadratic	equations											
Course	On completion of the course, the			to			BT Ma (Highest	Level)					
Outcome	CO1 Apply the concept of Matrix t						K						
	CO2 Demonstrate an understandi						K:	3					
	CO3 To learn the relation between	CO3 To learn the relation between the co-efficient and roots of polynomial equations. K2											
	CO4 Solve problems related to Mu	ultiple and Nati	ire of p	osition c	of roots		K	3					
	CO5 Analytic Methods for solving	the polynomia	equati	on of de	grees 3 &	4.	K	2					
UNIT-I	LINEAR SYSTEMS				Periods:								
Linear systems	s - Matrices - Matrix operations - Prope	erties of Matrix	operatio	on, Matri	x transforn	nations.		CO1					
UNIT-II	SOLUTIONS OF LINEAR SYSTEM	IS OF EQUATI	ONS		Periods:	12							
	near systems of equations - Row eche of a Matrix Linear Systems and inver					olynomial in	terpolation	CO2					
UNIT-III	THEORY OF EQUATIONS				Periods:	12							
0	hm - Relation between roots and coef		f the po	owers of				CO3					
UNIT-IV	THEORY OF EQUATIONS[Contd]				Periods:	12		·					
Reciprocal equ – Descarte's R	uations - Transformation of equations:	- Multiple roots	- Natur	e of pos	ition of roo	ts - Sturm's	Theorem	CO4					
UNIT-V	THEORY OF EQUATIONS[Contd]				Periods:	12							
Cardan's Meth	od for solving Cubic equations – Ferra Method- Horner's Method		solving	biquadr				CO5					
Lecture Perio		5 Praction	al Peri	ods: -	•	Total Perio	ds: 60						
Text Books	<u>.</u>	<u></u>			<u>i</u>								
	man Drid R. Hill, Introductory Linear A		a rson I	ndia (20	11).								
	quations, Hari Kishan, Atlantic Publish												
ತ. Ineory of Eo	guations, Lalji Prasad, New Revised E	aition, 2016.											

3. Theory of Equations, Lalji Prasad, New Revised Edition, 2016.

Reference Books

- S. Arumugam and A Thangaand Isaac, Set Theory Number System and Theory of Equations, New Gamma publishing house (1997.)
- 2. A Text Book of Theory Of Equations January 2020 by Manoranjan Kr. Singh.
- Algebra Volume-1, T.K. Manicavachagom Pillay , T.Natarajan and K.S. Ganapathy,. Viswanathan (Printers & Publishers) Pvt. Lid, (1999).

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- 2. https://math.emory.edu/~lchen41/teaching/2020_Fall/Section_2-7.pdf
- 3. https://www.dictionary.com/browse/division-algorithm
- https://web.math.ucsb.edu/~padraic/mathcamp_2013/root_find_alg/Mathcamp_2013_Root-Finding_Algorithms_Day_2.pdf
- 5. https://cs.fit.edu/~wds/classes/adm/Lectures/HornerPolynomial.pdf



* TE – Theory Exam, LE – Lab Exam

COs/POs/PSOs Mapping

Cos		Progra	am Outcome	s (POs)		Program Specific Outcomes (PSOs)					
Cos	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3			
1	2	3	3	3	2	3	2	1			
2	3	2	3	2	1	3	2	1			
3	3	2	3	3	2	2	3	1			
4	2	3	3	3	3	3	2	2			
5	3	2	3	3	2	3	2	1			

Correlation Level: 1 - Low, 2 - Medium, 3 - High

Evaluation Method

		Contir	nuous Asses	ssment Marks (CA	M)	End Semester	Total
Assessment	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Examination (ESE) Marks	Marks
Marks	1	0	5	5	75	100	

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus



Department	MATH	EMATIC	S	Progra	mme: B	.Sc. (M	athematic	cs)		
Semester	Secon	d		MJD	Catego			nd Semester		
Course Code	A23M	AT204)		ods / W	··•	Credi		ximum Ma	
Course Name	VECT	OD CAI	LCULUS	L 3	T 1	P 0	C 4	25	ESE 75	TM 100
Course Marrie	VEGI	OK CAI	LCOLOS	3	1	U	4	23	73	100
Prerequisite	Mather	natics sl	nould be a subject in +2.	<u></u>	I	. <u> </u>	<u> </u>	į		L
	To ena	able stud	dents to Understand the f	fundamental	concep	ts of ve	ctor calcu	lus		
0	To ena	able the	students to learn the cor	ncepts of diff	erentiati	ion of v	ectors.			
Course Objectives	To find	d solution	ns of Solenoidal and Irro	tational.						
Objectives	To kno	w about	the line integral.							
	To brin	g the kn	owledge of vector calcul	us and its ap	plicatio	n in the	orems			
		-	n of the course, the stu						BT Ma (Highes	Level
	CO1	Unders	tand the concept of Dire	ction cosines	and di	rection	ratios		K	2
	CO2	Gain lo	gical skills in the formula	ition of differ	ential ed	quations	3		K	3
Course	CO3	Comput	e divergence and curl of	vectors.					K	3
Outcome		Apply tintegrals	he various techniques	of vector in	tegratio	n in sc	olving Line	e and surfac	ce K :	3
	CO5	Unders	tand the concept of Gau	ss Divergen	ce Theo	rem an	d Green's	Theorem.	K	3
UNIT-I	INTRO	DUCTIO	N				Periods	: 12		
derivative of ve UNIT-II	DIFFE	ENENTI	AL VECTOR CALCULU				Periods			
			ometrical Interpretation of Derivatives of Vectors				ation form	ulae – Diffei	entiation o	f CO2
UNIT-III	GRAI	DIENT, [DIVERGENCE AND CUI	RL			Periods			
Gradient of the - Divergence of	sum of a Vecto	Function or and its	I - Gradient of a Scalar ns; of the product of func s Physical Interpretation ng Del - Solenoidal and I	ctions and of - Curl of a V	a functi	ion of fu	ınction - C	operations in	volving De	CO3
UNIT-IV	VECT	OR INT	EGRATION				Periods	: 12		
The Line Integr	al - Surf	ace Inte	gral and its Physical Mea	aning – Stok	e's The	orem				CO4
UNIT-V	VECT	OR INT	EGRATION(CONTD.)				Periods	: 12		
Green's Theore	em, Gau	ss Diver	gence Theorem and Vol	ume of integ	ral - Sin	nple pro	oblem			CO5
Lecture Period	ls: 45		Tutorial Periods: 15	Practio	al Perio	ods: -		Total Perio	ds: 60	
2.Duraipandian 3.Shanti Naray: Reference Boo 1.P.R.Vittal. (20 2.G.B.Thomas 3.M.K.Venkatai 4.B.S.Grewal. H Web Referenc 1.https://www	, P., Laxan, P. Kooks Oo4) Vecand R.Lraman. (Higher E	miDura . Mittal, .ctor Cald .Finney. 1992) E .ngineer	s. S. Chand & Co,Ltd., Ripandian, Vector Calculu A Text Book of Vector Arculus, Fourier series and (1998) Calculus and Anngineering Mathematics ing Mathematics (2002),	s, Emerald F nalysis (Engl Fourier Tran alytic Geome -Part B. Nati Khanna Pub	Publishe ish) 19t Isform. I etry, Ado onal Pu Ilishers,	ers, 200 h Editic Margha dison V blishing New D	3. on, S.Char m Publica Vesley (9th g Company elhi	nd Publishers tions, Chenr n Edn), Mass y, Chennai.	s, 2013. nai.	rint).
			oads/files/LectureNotes/	cse/S2/Mat	<u>nematic</u>	:s%20-%	<u>62011%201</u>	Notes/Unit-		
2%20Vector%2										
3.https://www	.snggdcૄ	g.ac.in/p	odf/study-material/math – Lah Exam	ematics/SM	ch18.pc	tt				

* TE – Theory Exam, LE – Lab Exam



COs/POs/PSOs Mapping

Cos		Progra	am Outcome		Program Specific Outcomes (PSOs)			
Cos	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3
1	2	2	3	2	3	2	3	1
2	3	2	3	3	1	3	3	1
3	3	2	2	3	3	2	3	1
4	2	3	2	3	3	2	2	2
5	3	2	3	3	1	3	2	1

Correlation Level: 1 - Low, 2 - Medium, 3 - High

Evaluation Method

Accomment		Conti	End Semester	Total			
Assessment	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Examination (ESE) Marks	Marks
Marks	10		10 5		5	75	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus



Department	MATH	HEMATIC	EMATICS Programme: B.Sc (Mathematics)											
Semester	Secor	nd		Co	urse	Catego	ry Cod	e: MID *Er	nd Semeste	er Exam Ty	pe: TE			
Course Code	A23N	MAD202D			Perio	ds / We		Credit			rks TM			
					L	T	Р	С		mma Distribution				
Course Name	STA	TISTICS I	l		3	1	0	4	25	75	100			
Di-i-i-	D (7 - 1 - 1 - 1											
Prerequisite			Knowledge e normal distribution a	and its prop	ortion									
			inderstanding of the	······································			ahility (dietributione						
Course		.	e concept of correlation	·····					•					
Objectives			inderstanding of the					n models.						
			concepts of theory				_							
			of the course, the							BT Ma	pping			
			,							:				
Course	CO1	Solve the	e concept of Generat	ting function	١.					K	3			
Outcome	CO2	Analyze	and apply the knowle	edge of norr	mal a	nd gam	nma dis	tribution.		K	3			
	CO3	Demons	trate the Application	of correlatio	n ana	alysis.				K	2			
	CO4	Understa	and the difference be	tween Linea	ar and	d Curvil	linear F	Regression		K	3			
	CO5	Know the	e applications of Clas	sses and Cla	ass fr	equenc	cies.			K	2			
UNIT-I		i	TRIBUTION					Periods:	12	I				
			n of binomial distribu Function – Moments				Mode	– Median –	Moment G	enerating	CO1			
UNIT-II	.		NTINUOUS PROBAE					Periods:	12					
	<u>i</u>							<u>. i</u>		istribution	CO2			
simple proble		obability L	nothibutions. Reotang	gaiai Diotrib	ation	man	guiai c	istribution	Oumma L	notification i	002			
UNIT-III	COR	RELATIO	N					Periods:	12					
			icient of correlation -		n of th	ne corre	elation	coefficient f	or a bivaria	ite				
frequency distri UNIT-IV			rrelation – Simple pr CURVILINEAR REG					Periods:	10		CO3			
_	<u>i</u>				ar red	ressio	n - Rec			le problem	s CO4			
	·····•		_	- Our viii ie	αιιο	JI 03310				ic problem	3 004			
UNIT-V			ATTRIBUTES					Periods:						
			- Dichotomy – Classe ibutes - Simple probl		s freq	uencie	s – Co	nsistency of	data – Ind	ependence	CO5			
Lecture Period		uon or au	Tutorial Periods: 1		actica	al Perio	ods: -		Total Peri	ods: 60				
Text Books		<u></u>						<u> </u>						
2. S.P. Gupta,	Statistic & V. Ba	al method	undamentals of Mathe ds- Sultan Chand and tatistics –S.Chand &	d Sons, 45th	n Edit	ion 201	17	nd and Son	s,12th Edit	ion ,2022				
1. Aliaga, Gu	ndersor	n. "Interact	tive Statistics", 2nd E	dition – Pea	arson	/Prentic	ce Hall							
2. Hamilton, "	Statistic	cs with ST	ATA", 8 th Edition, Du	xbury 2004				40						
o. r.k.villal,	watter	แลแผล อโ	atistics I", Margham	rupiicalions	s -∠U(ı∠- ĸep	חווונ 20	12.						
4. Weisberg,	S, "App	lied Linea	r Regression", John	Wiley and S	Sons,	New Y	ork - 1	980.						
5.Kokoska, "Int	roducto		cs: A Problem-Solvin	•										
Web Referenc														
			nline_Statistics_Educ	•										
			udent-resources/bam 11/105/111105041/	matn/cours	e-ma	terials/								
https://npte	i.au.III/C	Juli 969/ I	11/103/111103041/											

* TE – Theory Exam, LE – Lab Exam



COs/POs/PSOs Mapping

Cos		Progra	am Outcome	s (POs)		Program Specific Outcomes (PSOs)			
Cos	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	
1	2	3	3	3	2	3	2	1	
2	3	2	3	2	1	3	2	1	
3	3	2	3	3	2	2	3	1	
4	2	3	3	3	3	3	2	2	
5	3	2	3	3	2	3	2	1	

Correlation Level: 1 - Low, 2 - Medium, 3 - High

Evaluation Method

		Conti	AM)	End Semester	Total				
Assessment	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Examination (ESE) Marks	Marks		
Marks	10		10		10 5 5 5		5	75	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus



Department	ENGLISH				(Mathem			
Semester	Second		e Cate	gory		emeste	r Exam	Type:
		Code:	MLD ds / We		TE Credit	Movir	num Ma	
Course Code	A23ENSA03C	L	us / vve	P	Credit	CAM	ESE	TM
Course Name	COMMUNICATION SKILLS	3	0	0	3	25	75	100
Course maine	COMMONICATION SKILLS	3	U	U	3	23	73	100
Prerequisite	Knowledge gained from communication	n and part-tv	vo lang	uage a	nd new p	aper re	ading	<u> </u>
	To improve the skill of rapid reading an	nd communic	ate effi	ciently				
Course Objectives	To decode and impart speaking skills	with confiden	се					
Objectives	To train students in analyzing articles	and Newspar	oer					
	To enhance the sense of social respor	nsibility and a	ccount	ability (of the stud	dents		
	To expound the significance in Manag	erial skills						
	On completion of the course, the st	udents will k	be able	to				apping
	CO1 Understand the pattern to comm	unicate effec	tively				(Highes	st Leve <3
Course	CO2 Impart Speaking skills with self-or		uvciy					\ 3
Outcomes	CO3 Enhance their strategies in analy		and Ne	wspap	er •			(3
	CO4 The sense of social responsibility							(3
	CO5 Expertise in Managerial skills						ł	(3
UNIT-I	COMMUNICATION SKILLS - SPEA	KING			Period	s: 06	. <u>L</u>	
 Aspects of 	, -							
	effective Speech							CO1
3. Technique UNIT-II	s for effectual Presentation SELF-MANAGEMENT SKILLS				Period	a. 06		
1. Time Mana					Periou	5. 00		
 Stress Mar 	=							CO2
	Management							
UNIT-III	COMMUNICATION SKILLS - READ	ING			Period	s: 06		
 Article ana 					***************************************			
2. Comprehe								CO3
3. Skimming UNIT-IV	and Scanning SOCIAL SKILLS				Period	a. 0e		
1. Leadership					Period	S: U0		
2. Teamwork								CO4
3. Decision m								
UNIT-V	PUBLIC SPEAKING AND PRESENTA	ATION			Period	s: 06		1
	rechniques for Public Speaking							CO5
Practice se	ssion (both, Public Speaking and Prese	ntation)						003
Lecture Period	s: - Tutorial Periods: -	Pract	ical Pe	riods:	30 Tota	l Perio	ds: 30	
Text Books								
1. Barun K. M	itra, Personality Development and Soft	skills, Oxford	Univer	sity Pre	ess, 2 nd E	dition,	2016.	
	, Effective English Communication for y nar &PusphLata. Communication Skills,							
Reference Boo			-, -	, -				
	nn J, Pulling Together: 10 Rules for Hig	h-Performan	ce Tea	nwork,	Simple T	ruth Pu	ublicatio	n, 1 st
Edition, 201	0.							

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- 2. Balasubramanian, T, A Textbook of English Phonetics for Indian Students, Trinity Press, 1st Ed, 1981.
- 3. Sardana, C.K, The Challenge of Public Relations, New Delhi: Harnand Publication, 1st Edition, 1995.
- 4. Sabina Pillai, Agna Fernandez, Soft Skills and Employability Skills, Cambridge University Press, 2017.
- 5. Jeff Butterfield, Soft Skills for Everyone, Cengage India Private Limited, 2nd Edition, 2020.

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- 2. https://corporatefinanceinstitute.com/resources/careers/soft-skills/management-skills/
- 3. https://zety.com/blog/how-to-introduce-yourself
- 4. https://www.butte.edu/departments/cas/tipsheets/readingstrategies/skimming_scanning.html
- 5. https://www.mayoclinic.org/tests-procedures/stress-management/about/pac-20384898

COs/POs/PSOs Mapping

Cos		Progra	am Outcome	es (POs)		Program Specific Outcomes (PSOs)			
COS	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	
1	3	3	3	2	3	1	3	3	
2	3	3	3	2	3	1	3	2	
3	3	3	3	2	2	1	3	2	
4	3	3	3	3	3	1	3	2	
5	3	3	2	2	2	1	2	2	

Correlation Level: 1 - Low, 2 - Medium, 3 - High

Evaluation Method

		Inter	nal Assess	ment Marks (CA	M)	End Semester	Total
Assessment	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Examination (ESE) Marks	Marks
Marks	80		0 10 10		0	100	

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus



^{*} TE – Theory Exam, LE – Lab Exam

Department	TAMIL	_	Program	nme: B	.A.(TA	MIL)			
Semester	SECON	ID	Course (······	End Semest	er Exam	Type: TE
			Perio	ds/We	ek	Credit	······	ximumM	
Course Code	A231A	AT202C	L	T	Р	С	CAM	ESE	ΤM
Course Name	TAMIL	. – II	3	0	0	2	25	75	100
(Common to B	s.A, B.S	c., BBA., B.COM., BCA., B.COM							
Prerequisite	பன்	ரிரெண்டாம் வகுப்பில் தமிழை ஒ	ரு பாடமா	கப் ட	பயின்	ுறிருக்க ே	வண்டும்.		
Course Objectives	•	செவ்விலக்கிய தன்மை கொண்ட தமி அமைக்கப்பட்டுள்ளது. இரண்டாயிரம் ஆண்டுகாலத் தமிழின் பண்பாட்டையும் எடுத்துரைப்பதாக இப் தமிழ் இலக்கியம் உள்ளடக்கத்திலும்	தோன்மை பாடத்திட்ட	 யயும் ம் அை	வரலா! மக்கப்	ந்நையும் அத பட்டுள்ளது.	ன் விழுமியா	ங்களையும்)
	•	அடையாளங்கள் ஆகியவற்றைக் கால இப்பாடத்திட்டம் அமைக்கப்பட்டுள்ளத வாழ்வியல் சிந்தனைகள், ஒழுக்கவியம மாணவர்களுக்கு எடுத்துரைக்கும் வித சிந்தனை ஆற்றலைப் பெருக்குவதற்கு அமைக்கப்பட்டுள்ளது.	். ந். ந்தில் இப்ட	டுகள், பாடத்திட	சமத்து ட்டம் <u>உ</u>	வம், சூழலிய உருவாக்கப்பட	ல் எனப் பல _்டுள்ளது.	் கூறுகளை	តា
		mpletion of the course, the stude இலக்கியங்கள் உணர்த்தும் வாழ்விய				المالية		(Highe:	apping st Level)
	CO1	, , ,		•					(3
Course	CO2	நமது எண்ணத்தை வெளிப்படுத்தும் க	கருவியாகத்	தாய்ெ	மாழின	யப் பயன்படு	த்துதல்.		(3
Outcome	CO3	தகவல் தெடர்புக்குத் தாய்மொழியின்	முக்கியத்த	நுவத்தை	த உல	னர்தல்.		ŀ	(2
ļ	CO4	தாய்மொழியின் சிறப்பை அறிதல்.						ŀ	(3
	CO5	இலக்கிய இன்பங்களை நுகரும் திறஎ	ர்களை வ	ார்த்தல்	•			ŀ	(3
UNIT-I	காப்பிப	பம்				Periods:	09		
சிலப்பதிகாரம் மணிமேகலை பெரியபுராணம் கம்பராமாயணம் தேம்பாவணி சீநாப்புராணம் UNIT-II திருக்குறள் நாலடியார் சிறுபஞ்சமூலம் ஐந்திணைஐம்பது கார்நாற்பது	- பளிக் - இசை - கும்ப - பாலட - மழை பதினெ - வலிய - அரும் - பூவாது - சுலை	குரைகாதை—காவியுகுநீரும்முதல் தே கதை புக்ககாதை—மதுமலர்க் கூந்தல் ராயான்குடிமாறநாயனார்புராணம் - உள்ள கர்ணவதைப்படலம் - உறங்குகின்ற கு மாட்சிப்படலம் - ஊட்டினார்அருள்(229 உயழைப்பித்தப் படலம் - வேயினை முற் எண் கீழ்க்கணக்கு நூல்கள் பறிதல் (48),நெஞ்சொடுகிளத்தல் (125) மபெறல்(பாடல் எண்:34) து காய்க்கும்(பாடல் எண்:22) எவாய்ச் சிறுநீரை(பாடல் எண்:38) விளை கண்மலர்போல் பூத்தன(பாடல்	.முதல் புற ாம் அன்புெ ம்பகன்ன பாடல் மட் இத்து எனத்	மறிப் ட காண்டு. (45ஆச ட்டும்)	பாராய் (17அ வதுபாட	வரை (106-12 யூவது பாடல்ம _ல் மட்டும்)	ுட்டும்) டல் மட்டும்)		CO1
கள்வழிநாற்பது களவழிநாற்பது	_	பினுளெஞ்சிய (பாடல் எண்:2)	616001:54)						
UNIT-III		இலக்கியம் - எட்டுத்தொகை				Periods:	09		
ஐங்குறுநூறு குறுந்தொகை நற்றிணை அகநானூறு புறநானூறு புரிபாடல்	- บาเมล่ - บาเมล่ - บาเมล่ - บาเมล่ - บาเมล่	் எண்:44 - தோழி கூற்று ல் எண்:224 - தலைவி கூற்று ல் எண்:284 - தலைவன் கூற்று ல் எண்:145 - செவிலி கூற்று ல் எண்:102 - ஒளவையார் ல் எண்:3 - திருமால் வாழ்த்து (1-11வா	ரிகள்)						соз
UNIT-IV	பத்துப்		- /			Periods:	09		<u>i</u>
பொருநராற்றுப்பன சிறுபாணாற்றுப்பன	ட - வா ட - ை படை-பா - அண் - மை	ரியும் வடித்தும்முதல் பெருந்தகு பாடி பந்தனை அவரைமுதல் வென்றிவேலு ர்வையாத்தமுதல் பதம் மிகப் பருகு ர்ணல் நெடுங்கோடுமுதல் சிவந்தகண் மடுபெருந்தோள்முதல் பெரும்பெயர் ப ர்காலக்காட்சி- கல்லென் துவலைத்மு	ரர் எய்தின் வீர் வரை (ணேம் வன மதுரை வன	வரை (95-105) ர(54-61) ரை (687) -699)	73)			CO4





UNIT-V மொழிப்பயிற்சி, இலக்கியவரலாறு Periods: 09

1.முதல், கரு, உரிப்பொருள் அறிதல்

2.அலகிட்டு வாய்ப்பாடு

3.அணிகள் அறிதல்

இலக்கிய வரலாறு

காப்பியம், அறஇலக்கியம், சங்க இலக்கியம் குறித்தப் பாடப்பகுதியை ஒட்டிய இலக்கிய வரலாறு.

Lecture Periods: 45 Tutorial Periods:- Practical Periods:- TotalPeriods:45

Text Books

- 1. **சிவகுமார்,எஸ்., -கொங்குதேர்வாழ்க்கை,** பாடல் தொகுப்பு நூல் தொகுதி -1, யுனைடெட் ரைட்டர்ஸ்,சென்னை -86. முதற்பதிப்பு.2003.
- 2. **சாமிநாதையர் டாக்டர் உ.வே. குறுந்தொகை மூலமும் உரையும்,** டாக்டர் உ.வே.சாமிநாதையர் நூல் நிலையம், வெளியீட்டெண்: 277,பெசன்ட் நகர், சென்னை— 600 090.எட்டாம் பதிப்பு— 2020.
- 3. **வேங்கடராமன், வித்துவான்.ஹெச். (பதி.) நற்றிணை மூலமும் உரையும்,**டாக்டர்உ.வே.சாமிநாதையர் நூல் நிலையம், வெளியீட்டெண்: 277,பெசன்ட் நகர்,சென்னை— 600 090. எட்டாம் பதிப்பு— 2020.
- 4. **திருவள்ளுவர்- சேயோன் டாக்டர் திருக்குறள்,**மயிலைத் திருவள்ளுவர்தமிழ்ச் சங்கம்,184,பிராட்வே,சென்னை 600 108
- **வேங்கடசாமிநாட்டார்,ந.மு., கார்நாற்பது,களவழிநாற்பது—** சாரதாபதிப்பகம்,சாந்திஅடுக்ககம், ஸ்ரீகிருஷ்ணபுரம் தெரு, இராயப்பேட்டை,சென்னை -14. முதற்பதிப்பு: 2005.

Reference Books

- 1. **சிற்பிபாலசுப்பிரமணியம் மற்றும் நீலபத்மநாபன் (ப.ஆசி.) —புதியதமிழ் இலக்கியவரலாறு, தொகுதி-1,2,3,** சாகித்திய அகாதெமி, புதுடெல்லி, 2013.
- 2. **பாக்கியமேரி, வகைமை நோக்கில் தமிழ் இலக்கிய வரலாறு (செம்மை மற்றும் விரிவுப் பதிப்பு),** பாரிநிலையம். சென்னை,
- **3. ஆனந்தன். சு. முனைவர்., தமிழ் இலக்கியவரலாறு,**கண்மணிபதீப்பகம், திருச்சி-2. இருபத்தி மூன்றாம் பதிப்பு— 2015.
- பரந்தாமனார்,அ.கி.,நல்லதமிழ் எழுதவேண்டுமா,பாரிநிலையம்,சென்னை, 1998.
- **5. சம்பத், இரா., (பதி) -தொல்காப்பியக் கவிதையியல் வடிவம்-பாடுபொருள்-உத்தி-வகைமை,**புதுச்சேரிமொழியியல் பண்பாட்டுஆராய்ச்சிநிறுவனம், புதுச்சேரி-605 001. முதற்பதிப்பு—அக்டோபர் 2015.

Web References

- 2. http://www.tamilvu.org
- 3. http://www.tamilweb.com
- 4. http://www.tamilkodal.com
- 4. www.store.tamillexican.com
- 5. www.kala.tamilforu.blogspot.com
- 6. www.noolagam.com

COs/POs/PSOs Mapping

Cos		Prograi	m Outcome	es (POs)		Program Specific Outcomes (PSOs)			
Cos	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO 3	
1	3	3	3	3	3	3	3	3	
2	3	3	3	3	3	3	3	3	
3	3	2	3	3	2	3	3	3	
4	2	3	2	3	2	2	3	2	
5	3	2	3	2	3	3	3	3	

Correlation Level: 1: Low, 2: Moderate, 3: High



T. 92

CO5

^{*} TE – Theory Exam, LE – Lab Exam

Evaluation Method

		Contir	nuous Asse	(CAM)	End Semester	Total	
Assessment	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Examination (ESE) Marks	Marks
Marks	10		5	5	5 5		100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus



Department	FRENCH		Program	me: B.S	c. (Mat	hematics	s)		
Semester	Second		Course (Category	y Code:		Semeste	er Exam	1
			AEC	orio de AA	lock.	Type			
Course Code	A23FRT202	2C		eriods/W	···•	Credit		aximum ESE	TM
Course Name	FRENCH II		3	T 0	P 0	C 2	25	75	100
		:., BBA., B.COM., BCA.,)					23	,,,	100
Prerequisite		rledge of French language	ne		<u> </u>			<u> </u>	
rerequisite		the basics of French lar	_	student	S				
		e students to read, unde				ences			
Course		n to grasp the fundamen							
Objective		-							
		students to formulate co	······			14			
	To introduce	them French and Franc	cophone count	ries and	their cu	ultures			
		C	- 4		4 -				apping
	On complet	tion of the course, the	students will	be able	to			, ,	ghest vel)
	CO1 Have a	a general understanding	of the langua	ne					(3
Course									
Outcomes		e and interpret simple p		in Fren	Cn				(3
	<u> </u>	he basics of French grai						K	(3
		unicate and ask basic q						k	(3
		ciate the diversity and m	ultiplicity of Fr	ench an	d Franc	.		k	(3
UNIT-I	Parler des	choses				Period	s:09		
1. Qu'est-ce q									
 L'interro-né On Solde 	gation.								CO1
 On Solde Le compara 	s+if								
 Les fêtes 	XIII.								
UNIT-II	Découvrir	le futur				Period	s:09		.1
		vec l'open tour.							CO2
2. Les verbes	pronominaux	•							
3. Si vous gag	jnez, vous fer	ez quoi?							
Le futur sim	ple								
 Les superla 						T			
UNIT-III	i	climat et temps				Period	s:09		
1. Parasol ou									
 Le climat er 	n France. t midi à Parisî)							CO3
 Quand il es L'emploi du 									
	emps.metro,	Soulot, Toolau.							
UNIT-IV		ance - une vue				Period	s:09		.1
1. Vous allez	vivre à Paris?					.1			CO4
2. Les régions	de France								
3. L'avenir du	français.								
4. La place de	-								
5. Souvenirs of	····					T			
UNIT-V	Pratiquer I					Period	s:09		
	s études à Lyc	n.							CO5
 Retour des 									
 Raconter se Au voleur! A 	es vacances.								
	xu voieur! ix en France.								
Lecture Period		Tutorial Periods:	Practica	l Period	ds: -	Lect	urePer	iods:4	_ <u>i</u> 5
	-								-



- 1. Sylvie Poisson Quinton and Michèle Maheo, Festival 1 Méthode de Français, CLE editions, 2009
- 2. Nathalie Hirschsprung and Tony Tricot, Cosmopolite 1, Hachette editions, 2017

ReferenceBooks

- 2. Régine Mérieux and Yves Loiseau, Latitudes 1, Didier editions, 2017
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- 4. Bruno Giradeau, Réussir le Delf A1, Didier editions, 2019

Web References

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- 3. https://www.rfi.fr
- 4. https://www.lemonde.fr
- 5. https://www.frenchpodcasts.com
- 6. https://www.coursera.org

COs/POs/PSOs Mapping

Cos		Progra	ım Outcome		Program Specific Outcomes (PSOs)				
COS	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	
1	3	3	3	3	3	1	2	3	
2	3	3	3	3	3	1	2	3	
3	3	3	3	3	3	1	2	3	
4	2	3	3	3	3	1	2	3	
5	1	2	1	1	1	1	2	3	

Evaluation Method

		Conti	nuous Asse	ssment Marks (CA	AM)	End Semester	Total
Assessment	IVIOGEI		Assignment*	Attendance	Examination (ESE) Marks	Marks	
Marks	1	0	5	5	5	75	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus



^{*} TE – Theory Exam, LE – Lab Exam

	ENC	SLISH					(Mathem	atics)			
Semester	Seco	ond		Course Category Code:AEC Periods / Week Credit Maxim							
Course Code	A23	GET20	2C		eriods / T	T	Credit	<u> </u>	aximun ESE	Marks	
Course Name	GEN	NERAL	ENGLISH - II	L 3	0	P 0	2	25	75	TM 100	
			d BCA Branches)								
Prerequisite			two language and knowled	ge gained fr	om Gra	mmar	and Com	position		<u>i</u>	
	To tra	ain stud	ents to identify poetic forms	s and issues	s relate	d to co	ntexts				
Course Objectives	То є	enable t	the student in the skill of rea	ading for ide	as						
,	То е	enable t	the students to enjoy the lite	erature throu	ugh the	work o	of great w	riter			
	To in	troduce	drama as a social product	and a litera	ry form						
	To h	one co	mposition skills in students								
									BT Ma	apping	
	On c	omplet	ion of the course, the stu	dents will b	be able	to				hest	
	CO1	Comr	orehend and discuss the va	rious facets	of sele	ected p	oems			vel) (3	
Course	ļ	 	ate and Criticize the prose to		01 0010	otou p	001110			(3	
Outcomes	CO3		te various reflections and ir		short s	ories v	vith perso	nal			
	CO3	experie							K3		
	CO4		op critical appreciation base bed texts	ed on the ur	ndersta	nding d	of the		K	(3	
	CO5	Enha	nce the writing skills for spe	ecific purpos	ses				K	(3	
UNIT-I	POE	ETRY					Periods	s: 09		ı	
 Nissim Ezeki Sarojini Naid Walt Whitma William Blake Rabindranath 	u – <i>Inc</i> n – O (e – <i>Ty</i> g	lian We Captain ger	eaver n My Captain							CO1	
UNIT-II	PRO	SE					Periods	s: 09		<u> </u>	
1. Jawaharlal	Nehru	– A Try	st With Destiny								
2. Martin Luth										CO2	
	·			(D.);	o					CO2	
3. Swami Vive	kanan	da – <i>S_l</i>	peech at world Parliament o	of Religion (Chicago)	Periods	s: 09		CO2	
 Swami Vive UNIT-III Arthur Cand 	kanan SHC	da – <i>S_l</i> DRT ST de – <i>A</i> s	peech at world Parliament o 'ORIES Scandal in Bohemia	of Religion C	Chicago)	Periods	s: 09		CO2	
3. Swami Vive UNIT-III	kanan SHC on Doy ane –	da – <i>S_l</i> DRT ST de – <i>A</i> s	peech at world Parliament o 'ORIES Scandal in Bohemia	of Religion C	Chicago)	Period:				
 Swami Vive UNIT-III Arthur Cand Stephen Cr UNIT-IV 	ekanan SHO on Doy ane – DRA	da – Sj DRT ST de – A S The Oj AMA	peech at world Parliament o 'ORIES Scandal in Bohemia	of Religion C	Chicago)	<u>.</u>				
 Swami Vive UNIT-III Arthur Cand Stephen Cr UNIT-IV Cedric Mou 	ekanan SHC on Doy ane – DRA nt Sho	da – S _l DRT ST de – A s The O _l AMA ort – The	peech at world Parliament o ORIES Scandal in Bohemia pen Boat	of Religion C	Chicago		<u>.</u>	s: 09		CO3	
3. Swami Vive UNIT-III 1. Arthur Cand 2. Stephen Cr UNIT-IV 1. Cedric Mou 2. Fritz Karinth UNIT-V 1. Cause and 2. Note Makin 3. Picture Cor 4. Sentence P	ekanan SHO DON DON AND DRA INTERPORT GRA Effect g Inprehe Pattern	da – S _i DRT ST ele – A . The O _i AMA ort – The efund AMMAF Analysi ension	peech at world Parliament of ORIES Scandal in Bohemia pen Boat e Never Never Nest	of Religion C	Chicago		Periods	s: 09		CO3	
3. Swami Vive UNIT-III 1. Arthur Cand 2. Stephen Cr UNIT-IV 1. Cedric Mou 2. Fritz Karinth UNIT-V 1. Cause and 2. Note Makin 3. Picture Cor	ekanan SHC On Doy ane – DRA nt Sho ny – Ro GRA Effect g nprehe eattern Ounctua	da – S _i DRT ST ele – A . The O _i AMA ort – The efund AMMAF Analysi ension	peech at world Parliament of ORIES Scandal in Bohemia pen Boat e Never Never Nest		Chicago		Periods Periods	s: 09	ds: 45	CO3	



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- 11. https://www.poetryfoundation.org/poems/45474/o-captain-my-captain

COs/POs/PSOs Mapping

COs		Prograi	m Outcome	es (POs)		Program Specific Outcomes (PSOs)				
COS	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3		
1	3	2	3	2	3	3	3	3		
2	2	3	3	3	2	2	2	2		
3	3	2	2	3	1	3	2	3		
4	2	3	3	2	1	2	3	2		
5	3	3	3	3	3	2	2	3		

Evaluation Method

		Cont	inuous Ass	essment Marks (CAM)	End Semester	Total
Assessment	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Examination (ESE) Marks	Marks
Marks	1	0	5	5	5	75	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus



^{*} TE – Theory Exam, LE – Lab Exam

Department	<u>i</u>	THEMATICS Programme: B.Sc (Mathematics) ond Course Category Code: SEC *End Semester Exam Type:								
Semester	Secon	ıd		i			: SEC *End		-	
Course Code	A20M	AS201D		Perio	ds / We	eek	Credit	Ma	ximum Mar	ks
				L	Т	Р	С	CAM	ESE	TM
Course Name	LOGI	CAL REAS	SONING	0	0	6	3	50	50	100
Prerequisite	Math	ematics sh	nould be a subject in +2.							
	To fam	niliarize the	e concept of Number Sei	ries, Alphabe	et Serie	s, and A	Alpha-Nume	ric Series.		
0	To kno	ow the Sim	ple Analogy, Choosing t	he Analogoι	ıs pair,	Double	Analogy and	d Word Ar	nalogy	
Course Objectives	To gai	n the knov	rledge of Number and Le	etter Classifi	cation F	Problem	s.			
Objectives	To und	derstand th	ne concept of Coding and	d Decoding.						
			cept of blood relations.							
			of the course, the stud)			BT Ma (Highest	Leve
Course	CO1	CO1 Analyze and complete various series patterns.						К3		
Outcome	CO2	CO2 Apply analogical reasoning to identify and complete analogous pairs.						К3		
	CO3	Classify of	bjects and identify odd	ones out bas	ed on g	jiven cri	teria.		K	2
	CO4	Decode a	and encode messages us	sing various	coding	techniq	ues.		К3	
	CO5	Solve puz	zzles and problems relat	ed to blood i	elations	s and di	rectional ser	nse.	K	2
JNIT-I	SERIE	S COMPL	.ETION				Periods: 1	0	<u>i</u>	
Number Series series patterns	•	oet Series,	and Alpha-Numeric Ser	ies. Student	s will lea	arn to ic	lentify and c	omplete v	arious	СО
JNIT-II	ANAL	OGY					Periods: 1	0		
The Analogous Analogy	Pair, S	imple Ana	logy, Choosing the Analo	ogous pair, [Double /	Analogy	, Word Anal	ogy, and	Number	СО
JNIT-III	CLAS	SIFICATIO	N / ODD ONE OUT				Periods: 1	0		
Word Classific	ation, N	umber Cla	ssification, and Letter C	lassification,	helping	g studer	nts identify p	atterns ar	nd outliers.	СО
JNIT-IV	CODIN	NG – DEC	ODING				Periods: 1	0		
			Matrix Coding, Substituti roblem-solving skills.	on, Deciphe	ring Me	ssage V	Vord Codes	, and Jum	bled	СО
JNIT-V		D RELAT					Periods: 8			
Deciphering Ju	ımbled u	ıp Descrip	tions and solving Relatio	n Puzzles, ir	ncluding	g Directi	on Sense Te	ests.		СО

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- 2. Quantitative Aptitude and Reasoning Praveen PHI P.Ltd.
- 3. Scope and treatment as in "Quantitative Aptitude" by R.S. Aggarwal. S. Chand and company Ltd., Ram Nagar, New Delhi (2007).

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- 3. Mathematics for life-M. Immaclate-Nanjil offset Printers.
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 - * TE Theory Exam, LE Lab Exam



Evaluation Method

	Continuous Asses	ssment Marks (CA	M)	End Semester	Total
Assessment	Model Exam	Record	Attendance	Examination (ESE) Marks	Marks
Marks	30	10	10	50	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus



Department	Math	ematics	Progra	mme: B.	Sc. Mathema	ntics			
Semester	Seco	ond	Course category Code: VAC End Semester Ex						
Course Code	A 22\/	'AC201C	Periods	/ <u>We</u> ek		Credit	Maximu	m Ma <u>rk</u>	<u>(</u> S
Course Code	AZJV	ACZUIC	L	Т	Р	С	CAM	ESE	TM
Course Name	UND	ERSTANDING INDIA	2	0	0	2	100	0	100
(Common to a	II UG P	rogrammes)							
Prerequisite	···· † ······	c Knowledge of geograph		edge syst	ems and the	Constitu	tions of Ir	·	
Course Objective		nderstand the Geography						C	01
Objective		now more about the India				dge syste	ems		02
	To ur	nderstand the myths, folklo	ore and t	ribal cultu	ires of India			C	D3
	To kr	now about the social struc	ture, cas	te, comm	unity class a	nd gende	er	C	04
		nderstand the evolution of n constitution	states, r	nature, tra	ditional and	modern a	and the	C	05
	On co	ompletion of the course, th	he studei	nts				(Hig	apping hest vel)
Course Outcome	CO1	Understood the Geograp	ohy of Ind	dia				K	(3
Outcome		Acquainted knowledge al systems.	oout the	India's fre	edom strugg	le and kr	nowledge	K	(3
	CO3	Understood the myths, for	olkfore a	nd tribal c	ulture of Indi	a		K	(3
		Gained knowledge abou gender	t the soc	ial structu	ire, caste, co	mmunity	and	K	(3
	CO5	Understood the evolution Constituion.	n of state	es, nature	and tradition	of Indiai	า	K	(3
UNIT-I	GEO	OGRAPHY OF INDIA				Period	ls: 06		
1		the map of the world and ohical diversities	l its neigh	nbouring (countries				CO 1
UNIT-II		TORY OF INDIA				Period	le: NA		<u> </u>
		dom Struggle				1 61100	13. UU		СО
		ion to Indian knowledge s	ystems						2
UNIT-III	COI	MMUNICATING CULTUR	E			Period	ds: 06		i
		ves: Myths, tales and folklo to the Tribal Cultures of I			i				СОЗ
UNIT-IV	<u>i</u>	IAN SOCIAL STRUCTUR				Period			I
Conti Gend	•	nd change of the Indian S	ocial Str	ucture: Ca	aste, Commu	nity, Clas	ss and		CO 4
UNIT - V	UNI	DERSTANDING INDIAN	POLITY			Periods	s: 0 6		
1		n of State in India: Nature		-					CO5
		g India: Traditional, Mode	rn and C	ontempo	rary				
<u> </u>		as a living document	Due of:	cal Perio	do.	Total P	oriode: 0		<u> </u>
Lecture Perio		Tutorial Periods: -	Practi	cai Perio	us:	i otai P	eriods: 3	U	

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Evaluation Method

Marks		Assessment		ESE MARKS	TOTAL MARKS
Distribution	CAT I & CAT II	Report	Attendance	WAIN	WARRO
	70	20	10	-	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus



		HEMATICS				/lathema				
Semester	Seco	nd	Code:			LE	emeste			
Course Code	V 33	VAC202C		ds / We		Credit	· 	num Ma	T	
			L	Т	Р	С	CAM	ESE	TM	
Course Name	ENVI	RONMENTAL STUDIES	2	0	0	2	100	0	100	
Prerequisite		knowledge of Biology, Physics, Chepts, factors relate to nature or envir		Meteor	ology r	elated ba	sic soc	io -cultu	ıre	
	To kn	ow the structure and function of an	ecosyste	m.				С	01	
0	1	bibe an aesthetic value with respect		•			threats	C	O 2	
Course Objectives		s conservation and appreciate the c			-					
Objectives	To kn	ow the causes of types of pollution a	and disas	ster ma	ınagem	ent.		С	О3	
	To ob	serve and discover the surrounding	environr	nent th	rough f	ield work	•	С	04	
	To kn	ow the structure and function of an	ecosyste	m.				С	05	
	On c	ompletion of the course, the stud	lents will	l be ab	le to				appin jhest vel)	
	CO1	Understand about the various reso	ources					k	(3	
Course	CO2	Learn about the biodiversity						ŀ	(3	
Outcomes	CO3	Learn the different types of pollution	n and to	prever	nt the po	ollution		K3		
	CO4	Know about the pollution Act						K3		
	CO5	Observe various environmental iss	sues in su	ırround	dinas			K3		
UNIT-I										
	LIAA	TRONMENTAL SCIENCES: NATU	RAL RE	SOUR	CES	Period	s: 06			
	<u>i</u>	IRONMENTAL SCIENCES: NATU es - Relevance - Significance - P				<u>i</u>		- Water		
Environmental resources –Mir	Sciend neral re	es - Relevance - Significance - Pesources - Food resources - conflic	ublic aw ts over re	arenes	s - For e sharir	rest reso ng - Expl	urces -			
Environmental resources –Mir use pattern - E	Science neral renovironr	es - Relevance - Significance - Pesources - Food resources - conflic nental impact - fertilizer - Pesticide I	ublic aw ts over re Problems	arenes esource s - case	ss - For e sharir e studie	rest resong - Explose.	urces – oitation			
Environmental resources –Mir use pattern - E UNIT-II	Science neral re nvironr ECC	tes - Relevance - Significance - Pesources - Food resources - conflic nental impact - fertilizer - Pesticide I SYSTEM, BIODIVERSITY AND IT	Public aw ts over re Problems S CONS	arenes esource s - case ERVA	ss - For e sharir e studie rion	rest resong - Explos. Period	urces – oitation s: 06	– Land		
Environmental resources – Miruse pattern - Elunitril Ecosystem - corocological resources - ecosystem. Biodoiodiversity - biodoiogiversity - biodoi	Science neral results for the second	es - Relevance - Significance - Pesources - Food resources - conflic nental impact - fertilizer - Pesticide I	Public aw ts over re Problems S CONS s, consun - Fores nd ecosy	rarenes esource s - case ERVAT ners ar t, Gra	es - For e sharing studie rION and decor assland diversity	rest reso ng - Explos. Period mposers desert / - Value	urces – oitation s: 06 - Food and es and o	Landchain -aquationuses of	co	
Environmental resources – Miruse pattern - Elunit-II Ecosystem - corocomo - corocomo ecosystem. Bioconservation of	Science Science Research Science Record Ecolo diversit Science Biodivers biodivers	tes - Relevance - Significance - Pesources - Food resources - conflict nental impact - fertilizer - Pesticide I DSYSTEM, BIODIVERSITY AND IT - structure and function - producers gical pyramids - Energy flow y - Definition - genetic, species an ity at global, national (India) andlo	Public aw ts over re Problems S CONS s, consun - Fores nd ecosy ocal level	earenes esource s - case ERVAT ners ar t, Gra vstem o s - Ho	es - For e sharing studie rION and decor assland diversity	rest reso ng - Explos. Period mposers desert / - Value	urces – oitation s: 06 - Food and es and u o biodiv	Landchain -aquationuses of	CO	
Environmental resources – Mir use pattern - El UNIT-II Ecosystem - co Food web - ecosystem. Biodiversity - biodiversity - bioconservation of UNIT-III	Science Science Record	tes - Relevance - Significance - Pesources - Food resources - conflictenental impact - fertilizer - Pesticide In SYSTEM, BIODIVERSITY AND IT - structure and function - producers gical pyramids - Energy flow by - Definition - genetic, species and ity at global, national (India) and desisty - Insitu & Exsitu	Public aw ts over re Problems S CONS s, consun - Fores and ecosy ocal level	esources - case ERVAT ners ar t, Gra estem es s - Ho	es - For e sharing estudie FION and deco assland diversity tspots,	rest resong - Explose. Periodimposers desert resonders threats to	urces – oitation s: 06 - Food and es and u o biodiv s: 06	- Land chain - aquatic uses of rersity -	CO	
Environmental resources – Miruse pattern - Elunit - II Ecosystem - coroconservation of JNIT-III Environmental waste, Thermal, and slides. Ro	Science Science Record	tes - Relevance - Significance - Pesources - Food resources - conflictenental impact - fertilizer - Pesticide In SYSTEM, BIODIVERSITY AND IT - structure and function - producers gical pyramids - Energy flow by - Definition - genetic, species and ity at global, national (India) and persity - Insitu & Exsitu ITRONMENTAL POLLUTION AND on - Causes - Effects and control or pollution and Disaster Manage dividuals inprevention of pollution -	Public aw ts over re Problems S CONS s, consun - Fores and ecosy ocal level MANAG I measurement - pollution	rarenes resource reso	es - Fore studies FION and deconsslands diversity tspots, Air, Wa	rest resong - Exploses. Periodomposers desert - Value threats to Periodomposers desert desert hater, Maran quake,	urces – oitation s: 06 - Food and es and u o biodiv s: 06 rine, so Cyclor	- Land chain - aquatic uses of versity -	CO	
Environmental resources – Miruse pattern - Elunit-II Ecosystem - corecosystem. Biodoiodiversity - bioconservation of UNIT-III Environmental waste, Thermal, Landslides. Rolunit-IV	Science remover remover remover removed remove	tes - Relevance - Significance - Pesources - Food resources - conflicted impact - fertilizer - Pesticide In the Pesticide In	Public aw ts over re Problems S CONS s, consun - Fores nd ecosy ocal level MANAG I measurement - pollution	erarenes esource s - case ERVAT ners ar t, Gra estem e s - Ho E res of Floods case s	e sharir e studie rION nd deco assland diversity tspots, Air, Wa	rest resong - Exploses. Periodimposers desert restriction - Value threats to Periodim quake, Periodim quake,	urces – oitation s: 06 - Food and es and u o biodiv s: 06 rine, so Cyclor s: 06	- Land chain - aquatic uses of versity -	CO	
Environmental resources — Miruse pattern - Elunit-II Ecosystem - corecosystem. Biodoidiversity - biodoiversity	Science Science Personal Perso	tes - Relevance - Significance - Persources - Food resources - conflicted impact - fertilizer - Pesticide Inental Inen	Public aw ts over re Problems S CONS s, consun - Fores and ecosy ocal level MANAG I measurement - pollution ION ental Eth - Enviro a growth ble of IT	rarenes resource s - case ERVAT ners ar t, Gra rstem c s - Ho E res of Floods case s ics - G nmenta and E	e sharing studies FION and deconssland diversity tspots, Air, Was, Earth tudies Global was prodes	rest resord rest resord rest resord resord reserved reserved reserved reserved reserved resord resor	urces – poitation s: 06 - Food and s and obiodiv s: 06 - Cyclor s: 06 - Resetted and righ	chain - aquatic uses of rersity - il, solid ne and tlement 6 - Air, nts and	CO	
Environmental resources — Mir use pattern - El UNIT-II Ecosystem - corecosystem. Biodoiversity - bioconservation of UNIT-III Environmental waste, Thermal, Landslides. Rolunit-IV Urban issues - and Rehabilita Water, Wildlife a ValueEducation	Science Science Province Provi	tes - Relevance - Significance - Pesources - Food resources - conflicinental impact - fertilizer - Pesticide Inental impact - Inental impact - Fertilizer	Public aw ts over re Problems S CONS s, consum - Fores and ecosy ocal level MANAG I measurement - pollution ON ental Eth - Enviro a growth ble of IT	rarenes esource s - case ERVAT ners ar t, Gra vstem c s - Ho E res of Floods case s ics - G nmenta and E in Env	e sharir e studie rION nd deco assland diversity tspots, Air, Wa a, Earth tudies al prod explosic	rest resord rest resord rest resord resord reserved reserved reserved reserved reserved resord resor	urces – oitation s: 06 - Food and es and u o biodiv s: 06 - Cyclor s: 06 - Reset ct. 1986 nan righ	chain - aquatic uses of rersity - il, solid ne and tlement 6 - Air, nts and	CO	
Environmental resources — Miruse pattern - Elunit-II Ecosystem - corecosystem. Biodoiodiversity - bioconservation of UNIT-III Environmental waste, Thermal, Landslides. Rolunit-IV Urban issues - and Rehabilita Water, Wildlife avalue Education Womenand chiunit-V The roleof You National integr	Science Science Provision Provision Science Sc	res - Relevance - Significance - Pesources - Food resources - conflicinental impact - fertilizer - Pesticide In PSYSTEM, BIODIVERSITY AND IT - structure and function - producers gical pyramids - Energy flow by - Definition - genetic, species and ity at global, national (India) and persity - Insitu & Exsitu (IRONMENTAL POLLUTION AND Fon - Causes - Effects and control on - Causes - Effects and control of pollution - Causes - Environmental legislations rest conservation Act - Population rironmental Health - HIV/AIDS - Regare - Public awareness - Case studies	Public aw ts over re Problems S CONS s, consun - Fores and ecosy ocal level MANAG I measurement - pollution ION ental Eth - Enviro a growth ble of IT es. IUNAL F GOs, Div pment o	erarenessesources - case ERVAT mers ar t, Gravetem of s - Hore Eres of Floods case s ics - G nmenta and E in Env	e sharir e studie FION nd deco assland diversity tspots, Air, Wa a, Earth tudies Fiobal w al prod explosion rironme DNY of Indian	rest resong - Exploses. Periodiss. Periodistreats to Periodiater, Marang - uction Adam - Humant and H Periodia Nation, an Constit	urces – oitation s: 06 - Food and es and u o biodiv s: 06 - Reset ct. 1986 han righ uman H Is: 06 Importa	chain - aquatic uses of versity - il, solid ne and tlement 6 - Air, nts and Health -	CO	
Environmental resources — Miruse pattern - Elunit-II Ecosystem - corecosystem. Biodoiodiversity - bioconservation of UNIT-III Environmental waste, Thermal, Landslides. Rolunit-IV Urban issues - and Rehabilita Water, Wildlife avalue Education Womenand chiunit-V The roleof You National integr	Science Science Provision Scie	res - Relevance - Significance - Pesources - Food resources - conflicted impact - fertilizer - Pesticide Inental Impact - Structure and function - producers gical pyramids - Energy flow y - Definition - genetic, species and ity at global, national (India) andlowersity - Insitu & Exsitu Inental	Public aw ts over re Problems S CONS s, consun - Fores and ecosy ocal level MANAG I measurement - pollution ON ental Eth - Enviro a growth ole of IT es. IUNAL F GOs, Div pment o	rarenessesources - case ERVAT mers ar t, Gravetem of s - Hor E res of Floods case s ics - G nmenta and E in Env IARMO ersity of natio of self	e sharir e studie FION nd deco assland diversity tspots, Air, Wa a, Earth tudies Elobal w al prod explosice rironme only of India and Ha	rest resong - Exploses. Periodiss. Periodistreats to Periodiater, Marang - uction Adam - Humant and H Periodia Nation, an Constit	urces – oitation s: 06 - Food and es and u o biodiv s: 06 - Cyclor s: 06 - Reset ct. 1986 han righ uman h Is: 06 Importa	chain - aquatic uses of versity - il, solid ne and tlement 6 - Air, nts and dealth - ance of Building	CO	





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- 3.http://nss.nic.in/propexpan
- 4.http://nss.nic. in
- 5.http://socialworknss.org/about.html

Evaluation Method

		Continue	ous Assessment M	larks (CAM)	End Semester	Total
Assessment	CAT 1	CAT 2	Assignment*	Attendance	Examination (ESE) Marks	Marks
Marks		70	20	10	0	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus

A23MAC202D	CERTIFICATION COURSES	L	Т	Р	С	Hrs
		0	0	4	0	40

Students shall choose an international certification course offered by the reputed organizations like Google, Microsoft, Information Technology Specialist, Project Management Institute, Adobe, CISCO Networking Academy, AWS Academy, Tally and Autodesk, Eplan, etc. The duration of the course is 40 hours specified in the curriculum, which will be offered through Centre of Excellence.

Pass /Fail will be determined on the basis of participation, attendance, performance and completion of the course.

If a candidate Fails, he/she has to repeat the course in the subsequent years. Pass in this course is mandatory for the award of degree.



^{*} TE – Theory Exam, LE – Lab Exam

ANNEXURE III

		XUKE III									
Department	MATHEMATICS				thematics)						
Semester	Second	Course Category Code: MJD *End Semester Exam Type: TE Periods / Week Credit Maximum Marks									
Course Code	A23MAT203D	Perio	Periods / Week			Maximum Marks					
		L	Т	Р	C	CAM	ESE	TM			
Course Name	MATRICES AND THEORY OF EQUATIONS	3	1	0	4	25	75	100			
	EQUATIONS										
Prerequisite	Mathematics should be a subject in +2.		<u> </u>	<u> </u>							
·	To introduce the idea of matrices and to learn about the algebra of matrices										
Course Objectives	To solve system linear equations using matrix Theory										
	To develop the concept of the Sum of the powers of the roots.										
	To introduce variety roots.										
	To study the concept of biquadratic equations										
	On completion of the course, the stude	ents will be	able to)			BT Ma				
Course Outcome		(Highest Level									
	CO1 Apply the concept of Matrix trans	K3									
	CO2 Demonstrate an understanding of	K3									
	CO3 To learn the relation between the	K2									
	CO4 Solve problems related to Multiple	K	(3								
	CO5 Analytic Methods for solving the		K2								
UNIT-I	LINEAR SYSTEMS Periods: 12										
Linear systems	- Matrices - Matrix operations - Properties	of Matrix o	peration	ı, Matrix	transformat	ions.		_			
UNIT-II	SOLUTIONS OF LINEAR SYSTEMS O	E EOUATI)NIC		Periods: 1			CO1			
_	near systems of equations - Row echelon			ocholon			arnolation	- CO2			
	a Matrix Linear Systems and inverses - I				ioiiii — Foiyi	nomai inte	sipolation	- 002			
UNIT-III	THEORY OF EQUATIONS Periods: 12										
Division algorith	nm - Relation between roots and coefficien	its - Sum of	the pow	vers of the	ne roots.						
								CO3			
UNIT-IV	THEORY OF EQUATIONS[Contd]				Periods: 1	2					
Reciprocal equ	ations - Transformation of equations: - Mul	ltiple roots -	Nature	of positi	on of roots -	Sturm's T	heorem –	_ CO4			
Descarte's Rule	<mark>.</mark> .										
UNIT-V	THEORY OF EQUATIONS[Contd]				Periods: 1	2					
	od for solving Cubic equations – Ferrari's N	∕lethod for s	olving b	oiquadra	tic equations	S -		CO5			
	Method- Horner's Method ds: 45 Tutorial Periods: 15	Practic	al Baric	.do.	Т	otal Perio	do. 60				
Lecture Period Text Books	is: 45 Tutorial Periods: 15	Practic	ai Peric	os: -	1	otal Perio	us: 60				
	man Drid R. Hill, Introductory Linear Algebr	ra (8a) Paa	reon Inc	lia (201	1\						
	juations, Hari Kishan, Atlantic Publishers, 2	, , , , ,	15011 1110	lia (201	1).						
	uations, Lalji Prasad, New Revised Editior										
Reference Boo	oks.										
house (199	,	•		_	of Equation	ns, New G	amma pu	blishin			
	k of Theory Of Equations January 2020 by	/ Manoranja	n Kr. Si	ngh.							
Web Referenc	es.										

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- 1. https://builtin.com/data-science/dot-product-matrix
- 2. https://math.emory.edu/~lchen41/teaching/2020_Fall/Section_2-7.pdf
- 3. https://www.dictionary.com/browse/division-algorithm
- 4. https://web.math.ucsb.edu/~padraic/mathcamp_2013/root_find_alg/Mathcamp_2013_Root-Finding_Algorithms_Day_2.pdf
- 5. https://cs.fit.edu/~wds/classes/adm/Lectures/HornerPolynomial.pdf.

COs/POs/PSOs Mapping

Cos	Program Outcomes (POs)					Program Specific Outcomes (PSOs)			
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	
1	2	3	3	3	2	3	2	1	
2	3	2	3	2	1	3	2	1	
3	3	2	3	3	2	2	3	1	
4	2	3	3	3	3	3	2	2	
5	3	2	3	3	2	3	2	1	

Correlation Level: 1 - Low, 2 - Medium, 3 - High

Evaluation Method

		Conti	End Semester	Total			
Assessment	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Examination (ESE) Marks	Marks
Marks	10		5	5	5	75	100

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