

DEPARTMENT OF MATHEMATICS

UG

Choice Based Credit System (CBCS)-File

Mode of Elective Papers Chosen

BATCH: 2019 - 2022

HOD

Head, Department of Mathematics Annai College of Arts & Science, Kovilacheri, Kumbakonam-612 503 IQAC



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Quality Education for Today & Tomorrow Kovilacheri, Kumbakonam. 612 503. Ph: 0435 2453007 Accredited by NAAC with 'B' Grade & Recognized by UGC under Section 2(f) & 12(B) Affiliated to Bharathidasan University, Tiruchirappalli E-Mail acasdmn@gmail.com

DEPARTMENT OF MATHEMATICS

Choice Based Credit System (CBCS)-File

Mode of Non-Major Elective Chosen

2019 - 2022

HOD

Head, Department of Mathematics Annai College of Arts & Science, Kovilacheri, Kumbakonam-612 503 IOAC



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DEPARTMENT OF MATHEMATICS

ACADEMIC YEAR: 2020-2021

Non- Major Elective Papers taken from BBA(NME)

S.No	Name of the Non Major Elective	Year II / III	Semester Odd/Even	No. of Students	Credit Hours
1.	Management Principles	II	III	08	02
2.	Banking Practices	II	IV	08	02
	Only for	r other Lan	guage Except	Tamil	
3	Basic Tamil	II	III	NIL	-
4	Special Tamil	II	IV	NIL	-

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Acronym & Abbreviation

- 1. **CC** Core Course.
- 2. LC Language Course.
- 3. ELC English Language Course
- 4. AC Allied Course
- 5. **NME** Non Major Elective
- 6. SBE Skill Based Elective
- 7. MBE Major Based Elective

DEPARTMENT OF MATHEMATICS

Date: 24.06.2020

CIRCULAR

This is to inform you that our Department is planned to conduct meeting on 24.06.2020 regarding the selection of Non-Major Elective Papers(NME) only for second year students (Batch: 2019-2022). The students are instructed to attend the meeting at 10.00 A.M in the Hall No. 204 without fail.

COPY TO:

- 1. Department file.
- 2. Department Notice Board.
- 3. To be read in classroom.

HOD

Head, Department of Mathematics Annai College of Arts & Science. Kovilacheri, Kumbakonam-612 502



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DEPARTMENT OF MATHEMATICS

MINUTES OF MEETING

Date: 25.06.2020

AGENDA

The selection of Non-Major Elective Papers only for second year students (Batch: 2019-2022), HOD has arranged a meeting for class representatives through a circular dated on 25.06.2020.

The following points were discussed in the meeting.

- 1. Discussed the list of NME papers with the students.
- 2. Student Cleared the doubts regarding the scope of each paper with staff members
- 3. Finally they selected the NME papers.
- 4. The students those who chose Arabic, French, and Hindi as language, they are eligible to select the NME papers.
 - a. Basic Tamil
 - b. Sirappu Tamil

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Head, Department of Mathematics Annai College of Arts & Science, Kovilacheri, Kumbakonam-612 503



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ANNEXURE I

NON MAJOR ELECTIVES (ARTS)

(For the candidates admitted from the academic year 2016-2017)

SI. No.	DEPARTMENT OFFERING THE NON-MAJOR ELECTIVE COURSES	TITLE OF THE NON-MAJOR ELECTIVE COURSES
1.	Applied Tamil	
2.	B.Litt.	I. தமிழ் நடைக்கூறுகள்
3.	Pulavar Degree	II. சிந்தனையியல்
4.	Tamil	
5.	B.B.A. (Bachelor of Business Administration)	I. Management Principles (or)Stock Exchange PracticesII. Banking Practices (or)International Business
6.	B.Com.	
7.	B.Com. (Applied)	I. Personal Investment (or) Elements of Insurance
8.	B.Com. (Computer Applications)	II. Introduction to Accountancy (or) Salesmanship
9.	B.Com. (Bank Management)	I. Banking Practices (or) Indian Banking System II. Rural Banking (or) Elements of Insurance
10.	B.Com (Corporate Secretaryship)	I. Elements of Company Law II. Stock Markets in India
11.	B.Com (Co-operation)	 I. Fundamentals of Cooperation (or) Cooperative Finance and Banking II. Cooperatives in Foreign Countries (or) Cooperative Bookkeeping System
12.	Economics	I. Advertisement Management II. Economics of Transportation
13.	English	I. Presentation Skills II. Functional Skills
14.	History	I. Freedom Movement in India II. Working of Indian Constitution
15.	Journalism & Mass Communication	I. Basic Photography II. Freelance Journalism
16.	Public Administration	I. Public Administration for Civil Services II. Indian Government and Administration
17.	Sanskrit	 I. Introduction to Early Sanskrit Literature (or) History of fables & Popular tales and Didactic Literature Pub. R.S. Vadhyer Pub. Palakad II. Scientific Literature (or) Indian Aesthetics
18.	Social Work	I. Human Rights II. Contemporary Social Issues and Problems
19.	Sociology	I. Dynamics of Society II. Women Empowerment
20.	Tourism And Travel Management	I. Basics of Tourism II. Cultural Tourism

NON MAJOR ELECTIVES (SCIENCE)

(For the candidates admitted from the academic year 2016-2017 onwards)

SI. No.	DEPARTMENT OFFERING THE NON-MAJOR ELECTIVE COURSES	TITLE OF THE NON-MAJOR ELECTIVE COURSES
1.	Apparel and Fashion Technology	I. Hand Embroidery (P) II. Jewellery Making (P)
2.		I. Working Principles of Internet II. Fundamentals of Information Technology
3.	Biochemistry	I. Health and diseases II. Hospital Management
4.	Biotechnology	I. Biotechnology for Human Welfare II. Food Processing
5.	Botany	I. Biofertilizers & Biopesticides II. Horticulture
6.	Chemistry	I. Chemistry in Everyday Life II. Health Chemistry
7.	Computer Science	I. Working Principles of InternetII. Fundamentals of InformationTechnology
8.	Electronics	I. Principles of ElectronicsII. Everyday Electronics
9.	Fashion Technology & Costume Designing	I. Fashion Accessories Designing II. Visual Merchandising
10.	Geography	I. Geography of Tourism II. Disaster Management
11.	Geology	I. Fundamentals of Geology II. Introduction to Minerals, Rocks and Fossils
12.	Home Science	I. Bakery and Food Preservation II. Apparel Designing
13.	Hospital Administration	I. Personal Hygiene II. Role of Hospital Services
14.	Hotel Management & Catering Science	T D - ' / D '1 / 5
15.	Information Technology	I. Fundamentals of Information Technology II. Information Security: Principles and Practices
16.	Mathematics	I. Quantitative Aptitude I II. Quantitative Aptitude II
17.	Microbiology	I. Mushroom Technology
18.	Nutrition & Dietetics	I. Nutrition for Women
		II. Nutrition for Health and Fitness

19	Physics	I. Energy Physics II. Laser Physics
20.	Software Development	I. Working Principles of Internet II. Fundamentals of Information Technology
21.	Textile Science	Management and Entrepreneurship Marketing and Merchandising
22.	Visual Communication	I. Basics of CommunicationII. Communication PersonalityDevelopment
23.	Zoology	I. Public Health and HygieneII. Ornamental fish farming



Department of Mathematics Batch: 2019 - 2022

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Principal

Annai College of Arts & Science Kovilachery, Kumbakonam-612 503

HOD

Kovilacheri, Kumbakonam-612 503

Head, Department of Mathematics Annai College of Arts & Science,



Justification on Non-Major Elective Selection

Management Principles

Students will understand Management principles and concepts, so that they can use it, while working in the organization

Banking Practices

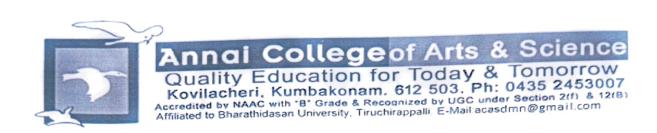
Students will understand i.e, Banking Structure, Banking Polices, Banking Practices and also they will know the utilities of Banking.

HOD

Head, Department of Mathematics Annai College of Arts & Science, Kovilacheri, Kumbakonam-612 503



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Choice Based Credit System (CBCS)-File

Mode of Skill Based Elective Papers Chosen

BATCH: 2019 - 2022



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Department of Mathematics

Academic Year: 2020-2021

Skill Based Elective Papers taken from

Desk Top Publishing (SBE)

No	Name of the Non Major Elective	Year II / III	Semester Odd/Even	No. of Students	Credit Hours
1	Page Maker	II	IV	08	02
2	Corel Draw	III	V	08	02
3	Dream Weaver	III	V	08	02

HOD

Head, Department of Mathematics Annai College of Arts & Science, Kovilacheri, Kumbakonam-612 503 IQAC



PRINCIPAL

Principal

DEPARTMENT OF MATHEMATICS

Date: 06.12.2020

CIRCULAR

This is to inform you that our Department is planned to conduct meeting on 06.12.2020 regarding the selection of Skill Based Elective Papers(SBE) only for second year students (Batch: 2019-2022). The students are instructed to attend the meeting at 10.00 A.M in the Hall No. 204 without fail.

Head, Department of Mathemat Annai College of Arts & Science Kovilacheri, Kumbakonam-612

COPY TO:

- 1. Department file.
- 2. Department Notice Board.
- 3. To be read in classroom.



DEPARTMENT OF MATHEMATICS

MINUTES OF MEETING

Date: 10.12.2020

AGENDA

The selection of Skill Based Elective Papers only for second year students (Batch: 2019-2022), HOD has arranged a meeting for class representatives through a circular dated on 10.12.2020.

The following points were discussed in the meeting.

- 1. Discussed the list of SBE papers with the students.
- 2. Student Cleared the doubts regarding the scope of each paper with staff members
- 3. Finally they selected the SBE papers.

HOD

Head, Department of Mathematics Annai College of Arts & Science, Kovilacheri, Kumbakonam-612 503 IQAC

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ANNEXURE II

SKILL BASED ELECTIVE PAPERS (2016 onwards)

Updated on 19.02.2018

Sl. No.	Skill Based Elective Paper	Paper	Semester	Title of the Paper
	_	I	IV	Clinical Bacteriology
1.	Clinical	II	V	Clinical Mycology and Virology
	Microbiology	III	V	Clinical Parasitology
		I	IV	Hardware Troubleshooting
2.	Computer	II	V	Ruby on Rails
	Application	III	V	Web Services
				Overview of Customer Relationship
	Customer	I	IV	Management (CRM)
3.	Relationship	II	V	CRM in Services Marketing & its Tools
	Management	III	V	E - CRM (Virtual Marketing)
		I	IV	Page Maker
4.	Desktop	II	V	Corel Draw
٦.	Publishing	III	V	Dream weaver
		I	IV	Ethno Medicine
5.	Herbal Medicine	II	V	Pharmacognosy
٥.	Tierbar Medicine	III	V	Herbs and Drug Action
		I	IV	Journalism and Mass Media
6.	Journalism and Public Relations	II	V	Reporting and Editing
0.		Public Relations		V
		III	IV	Introduction to Office Management
7.	Office	II	V	Office Management Tools
7.	Management	III	V	Communication & Interpersonal Skills
	Sales and	I	IV	Introduction to Marketing Management
8.	Marketing	II	V	Sales Management
0.	Management	III	V	Retail Management
	Tourism and	I	IV	Tourism and Travel Agency
9.	Travel	II	V	Cultural Tourism in India
9.	Management	III	V	Tourism Product – 3
		I	IV	Fundamentals of Yogic Practices
10.	Yoga and Stress	II	V	Stress Management Through Yoga
10.	Management	III	V	Asanas and Pranayamas – Practical
		I	IV	தமிழ் இதழியல் வரலாறு
11.	அச்சு ஊடகங்கள்	II	V	நாளிதழ் உருவாக்கமும் வடிவமைப்பும்
11.	3,44	III	V	இலக்கிய இதழ்கள்
		I	IV	Aqua Culture
		II	V	Biofertilizer
12.	Biotechnology	III	V	Mushroom Cultivation and Value
				Addition
		I	IV	Food and Nutrition
13.	Chemistry	II	V	Agricultural Chemistry
	<i>y</i>	Ш	V	Dyeing Techniques and Water Treatment

		I	IV	Home Appliance Maintenance and Servicing					
14.	Electronics	II	V	Computer Hardware and Networking					
		III	V	Mobile Servicing					
	**	I	IV	Hospitality Marketing					
	Hotel	TT	V	Information Technology in Hotel					
15.	Management	II V		Industry					
	and Catering Science	III	V	Information Technology in Hotel					
		111	V	Industry (P)					
		I	IV	Microbial Nanotechnology					
16.	Microbiology	II	V	Diagnostic Microbiology					
10.	2,2202000000000000000000000000000000000	III	V	Antimicrobial agents					
			** *	Apiculture					
		I	IV	Aquaculture					
			* 7	Sericulture					
17.	Zoology	II	V	Poultry Farming					
			X 7	Vermiculture					
		III	V	Dairy farming					



Department of Mathematics Batch: 2019 - 2022

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	Name	Abinaya.M	Akash.S	Babyatchaya.R	Dharani.D	Manikandan.T	Sarubala.B	Surya.T	Thenkuzhali.M CB19S378133
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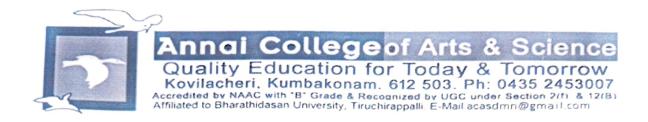
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Principal



Kovilacheri, Kumbakonam-612 503 Annai College of Arts & Science,

Mead, Department of Mathematics



Justification on Skill Based Elective Selection

Page Maker

With the help of Page Maker applications, the knowledge is gained to create complex multiple page books, brochures and other printable materials can be easily handled by binding the whole paper layout on a single sheet that dissolves the confusion of managing hundreds of pages.

Corel Draw

Corel Draw is vector based designing software is used to create logos, flexes, brochures, invitation cards and any kind of vector designing based on the lining.

Dream Weaver

Dream Weaver supports many make up languages including HTML, XML, CSS and Java script. This makes it possible for non coders to create web content. It helps to develop to build web sites are the internet or an intranet, and developing designs, code and manage websites as well as mobile content.

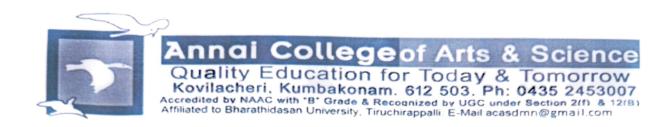
HOD

Head, Department of Mathematics Annai College of Arts & Science, Kovas Uneri, Kumbakonam-612 503



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Choice Based Credit System (CBCS)-File

Mode of Major Based Elective Papers Chosen

Batch: 2019-2022



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Department of Mathematics

Major Based Elective Papers

Academic Year: 2021-2022

No	Name of the Major Based Elective	Year II / III	Semester Odd/Even	No. of Students	Credit Hours
1	Operations Research	III	V	08	05
2	Graph Theory	III	VI	08	05
3	Astronomy	III	VI	08	05

HOD

Head, Department of Mathematics Annai College of Arts & Science, Kovilacheri, Kumbakonam-612 503



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Principal



DEPARTMENT OF MATHEMATICS

Date: 08.09.2021

CIRCULAR

This is to inform you that our department is planned to conduct meeting on 08.09.2021 regarding the selection of Major Based Elective Papers(MBE) only for third year students (Batch: 2019-2022). The students are instructed to attend the meeting at 10.00 A.M in the Hall No. 204 without fail.

COPY TO:

- 1. Department file.
- 2. Department Notice Board.
- 3. To be read in classroom.

HOD.

Head, Department of Mathema Annai College of Arts & Scien Kovilacheri, Kumbakonam-612



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DEPARTMENT OF MATHEMATICS

MINUTES OF MEETING

Date: 09.09.2021

AGENDA

The selection of Major Based Elective Papers only for third year students (Batch: 2019-2022), HOD has arranged a meeting for class representatives through a circular dated on 09.09.2021.

The following points were discussed in the meeting.

- 1. Discussed the list of MBE papers with the students.
- 2. Student Cleared the doubts regarding the scope of each paper with staff members
- 3. Finally they selected the MBE papers.

HOD

Head, Department of Mathematics Annai College of Arts & Science, Kovilacheri, Kumbakonam-612 503 HOAC

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ANNEXURE III

BHARATHIDASAN UNIVERSITY, B.Sc. Mathematics



TIRUCHIRAPPALLI - 620 024. Course Structure under CBCS

(Applicable to the candidates admitted from the academic year 2016 -2017 onwards)

Updated on 09.07.2018

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Sen	Par	t Course	Title	Ins. Hrs	Credit	Exam Hours	Ma Int	Ext.	Total
	I	Language Course – I (LC) – Tamil*/Other Languages +#		6	3	3	25	75	100
	II	English Language Course - I (ELC)		6	3	3	25	75	100
I		Core Course – I (CC)	Differential Calculus and Trigonometry	5	5	3	25	75	100
	III	Core Course – II (CC)	Integral Calculus	4	4	3	25	75	100
		First Allied Course – I (AC)		4	4	3	25	75	100
		First Allied Course – II (AP)		3					
	IV	Value Education	Value Education	2	2	3	25	75	100
		TOTAL		30	21	,			600
	I	Language Course – II (LC) - Tamil*/Other Languages +#		6	3	3	25	75	100
	II	English Language Course – II (ELC)		6	3	3	25	75	100
II		Core Course – III (CC)	Differential Equations and Laplace Transforms	5	5	3	25	75	100
	III	Core Course – IV (CC)	Analytical Geometry 3D	4	3	3	25	75	100
	222	First Allied Course – II (AP)		3	3	3	40	60	100
		First Allied Course – III (AC)		4	2	3	25	75	100
	IV	Environmental Studies	Environmental Studies	2	2	3	25	75	100
		TOTAL	30	21				700	
	I	Language Course – III (LC) Tamil*/Other Languages +#		6	3	3	25	75	100
	II	English Language Course - III (ELC)		6	3	3	25	75	100
		Core Course – V (CC)	Sequences and Series	5	4	3	25	75	100
		Core Course – VI (CC)	Classical Algebra and Theory of Numbers	4	4	3	25	75	100
	III	Second Allied Course – I (AC)		4	4	3	25	75	100
	,	Second Allied Course – II (AP)		3					
	IV	Non Major Elective I – for those who studied Tamil under Part I a) Basic Tamil for other language students b) Special Tamil for those who	Quantitative Aptitude I	2	2	3	25	75	100
		studied Tamil upto 10th +2 but opt for other languages in degree programme							

	I	Language Course –IV (LC) Tamil*/Other Languages +#		6	3	3	25	75	100
	II	English Language Course – IV (ELC)		6	3	3	25	75	100
		Core Course – VII (CC)	Vector Calculus and Fourier Series	4	4	3	25	75	100
	***	Core Course – VIII (CC)	Linear Algebra	4	4	3	25	75	100
	III	Second Allied Course – II (AP)		3	3	3	40	60	100
		Second Allied Course – III		3	2	3	25	75	100
IV	IV	Non Major Elective II – for those who studied Tamil under Part I a) Basic Tamil for other language students b) Special Tamil for those who studied Tamil upto 10 th +2 but opt for other languages in degree programme	Quantitative Aptitude II	2	2	3	25	75	100
		Skill Based Elective - I	Skill Based Elective - I	2	2	3	25	75	100
		TOTAL	30	23				800	
		Core Course – IX (CC)	Numerical Methods with MATLAB Programming	5	4	3	25	75	100
		Core Course – X (CC)	Real Analysis	6	6	3	25	75	100
	***	Core Course – XI (CC)	Statics	6	5	3	25	75	100
	III	Core Practical – I (CP)	Numerical Methods with MATLAB Programming (P)	2	2	3	40	60	100
V		Major Based Elective - I	Operations Research / Stochastic Processes	5	5	3	25	75	100
		Skill Based Elective – II	Skill Based Elective - II	2	2	3	25	75	100
	IV	Skill Based Elective – III	Skill Based Elective - III	2	2	3	25	75	100
	1	Soft Skills Development	Soft Skills Development	2	2	3	25	75	100
		TOTAL		30	28				800
		Core Course – XII (CC)	Abstract Algebra	6	5	3	25	75	100
		Core Course – XIII (CC)	Complex Analysis	6	5	3	25	75	100
		Core Course - XIV (CC)	Dynamics	5	5	3	25	75	100
	III	Major Based Elective II	Graph Theory / Mathematical Modelling	6	5	3	25	75	100
VI		Major Based Elective III	Astronomy / Number Theory	6	5	3	25	75	100
		Extension Activities	Extension Activities	-	1	-	-	-	-
	V	Gender Studies	Gender Studies	1	1	3	25	75	100
		TOTAL		30	27				600
		GRAND TOTA	L	180	140	-	-	-	4100

List of Allied Courses Group I (Any one)

- 1. Physics
- 2. Mathematical Statistics
- 3. Financial Accounting

Group II (Any one)1. Chemistry

- 2. Computer Science
- 3. Management Accounting

Language Part - I	-	4	
English Part –II	-	4	
Core Paper	_	14	
Core Practical	-	1	
Allied Paper	-	4	
Allied Practical	-	2	
Non-Major Elective	-	2	
Skill Based Elective	-	3	
Major Based Elective	-	3	
Environmental Studies	_	1	
Value Education	-	1	
Soft Skill Development	_	1	
Gender Studies	-	1	
Extension Activities	_	1	(Credit only)
LAtelision Activities			

^{*} for those who studied Tamil upto 10th +2 (Regular Stream)

Non Major Elective I & II - for those who studied Tamil under Part I

- a) Basic Tamil I & II for other language students
- b) Special Tamil I & II for those who studied Tamil upto 10th or +2 but opt for other languages in degree programme

Note:

Note:	Internal	Marks	External Marks
 Theory Practical Separate passing minimum 	25 40 is prescribe		75 60 rnal and External marks

FOR THEORY

The passing minimum for CIA shall be 40% out of 25 marks [i.e. 10 marks] The passing minimum for University Examinations shall be 40% out of 75 marks i.e. 30 marks

FOR PRACTICAL

The passing minimum for CIA shall be 40% out of 40 marks [i.e. 16 marks] The passing minimum for University Examinations shall be 40% out of 60 marks i.e. 24 marks

⁺ Syllabus for other Languages should be on par with Tamil at degree level

[#] those who studied Tamil upto 10th +2 but opt for other languages in degree level under Part I should study special Tamil in Part IV

^{**} Extension Activities shall be out side instruction hours



Department of Mathematics Batch: 2019 - 2022

				List of	Major	Based I	Elective	2		
s.No	Name	Reg.NO	Operations Research	Stochastic Processes	Graph Theory	Mathematica I Modelling	Astronomy	Number Theory	Signature	
1	Abinaya.M	CB19S378126			/		/		Abrilli	\sim
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Justification on Major Based Elective Selection

Operations Research

Operations Research can be applied to a variety of use cases including,

- Scheduling and time management
- Urban and agricultural planning
- Network optimization and Engineering

Graph Theory

Graphs are used to represent the routes between the cities with the help of tree that is a type of Graph, using we can create hierarchical ordered information such as family tree.

Astronomy

Astronomy has contributed many, even a large applications have come from studying Space, including advances in medicine, physics, chemistry and biology and also extend its impact in every other major scientific discipline.

HOD

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Annai College of Arts & Science,
Kovilacheri, Kumbakonam-612 503

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Affiliated to Bharathidasan University. Tiruchirappalli. E-Mail:acasdmn@gmail.com

DEPARTMENT OF MATHEMATICS

PG

Choice Based Credit System (CBCS)-File

Mode of Elective Papers Chosen

BATCH: 2019 - 2021

HOD

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Department of Mathematics

Elective Papers

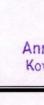
Batch: 2019-2021

No	Name of the Major Based Elective	Year I/II	Semester Odd/Even	No. of Students	Credit Hours
1	Mathematical Modeling	I	II	09	05
2	Stochastic Processes	I	II	09	05
3	Discrete Mathematics	II	III	09	05
4	Advanced Operations Research	II	Ш	09	05
5	Algebraic Topology	II	IV	09	05

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DEPARTMENT OF MATHEMATICS

Date: 20.01.2020

CIRCULAR

This is to inform you that our department is planned to conduct meeting on 20.01.2020 regarding the selection of Elective Papers PG students for (Batch: 2019-2021). The students are instructed to attend the meeting at 10.00 A.M in the Hall No. 203 without fail.

COPY TO:

- 1. Department file.
- 2. Department Notice Board.
- 3. To be read in classroom.

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DEPARTMENT OF MATHEMATICS

MINUTES OF MEETING

Date: 21.01.2020

AGENDA

The selection of Elective Papers for PG students (Batch: 2019-2021), HOD has arranged a meeting for class representatives through a circular dated on 21.01.2020.

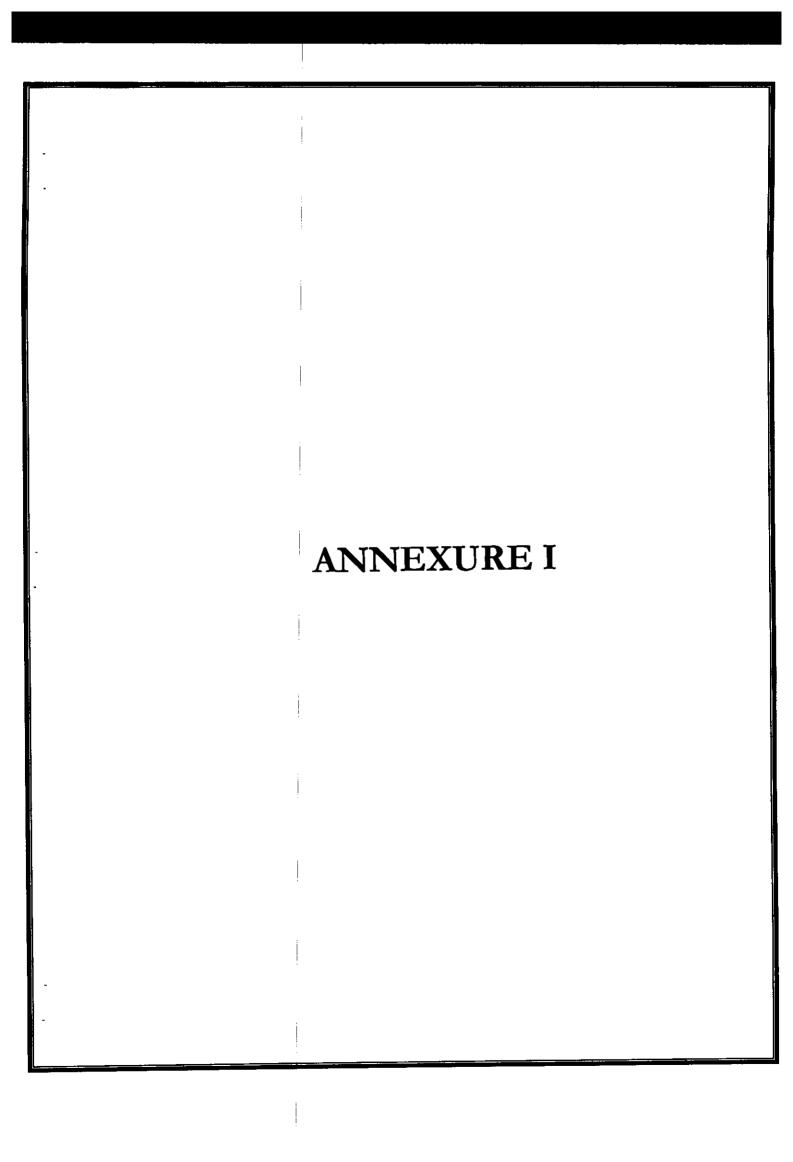
The following points were discussed in the meeting.

- 1. Discussed the list of Elective papers with the students.
- 2. Student Cleared the doubts regarding the scope of each paper with staff members
- 3. Finally they selected the Elective papers.

HOD

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BHARATHIDASAN UNIVERSITY, M.Sc. Mathematics



TIRUCHIRAPPALLI – 620 024. Course Structure under CBCS

(For the candidates admitted from the academic year 2016-2017 onwards)

		_		Ins.		Exam	Ma	rks	
Sem	Course		Course Title	Hrs/	Credit	Hrs	Int.	Ext.	Total
				Week					100
	Core Course – I (CC)		gebra	6	5	3	25	75	100
	Core Course - II (CC)		al Analysis	6	5	3	25	75	100
	Core Course – III (CC)		dinary Differential	6	5	3	25	75	100
			uations		5	3	25	75	100
I	Core Course – IV (CC)		aph Theory	6_		3	23	13	100
			egral Equations,		5	3	25	75	100
	Core Course - V (CC)		lculus of Variations and	6	3	3	23	15	100
		ansforms	20	25				500	
		TA		6	5	3	25	75	100
	Core Course – VI (CC)	_	mplex Analysis	6	5	3	25	75	100
	Core Course – VII (CC)		near Algebra rtial Differential	0			4.5	- 13	
	Core Course – VIII(CC)		rdai Differential	6	5	3	25	75	100
II	Elective Course – I (EC)	LX	uations	6	3	3	25	75	100
	Elective Course – II (EC)			6	3	3	25	75	100
	TO	TA	I.	30	21			•	500
	Core Course – IX (CC)		assical Dynamics	6	5	3	25	75	100
]	Core Course – X (CC)		easure and Integration	6	5	3	25	75_	100
	Core Course – XI(CC)		pology	6	5	3	25	75_	100
Ш	Elective Course – III (EC)			6	3	3	25	75	100
	Elective Course – IV (EC)			6	3	3	25	75	100
	TO	L	30	21				500	
	Core Course – XII (CC)		inctional Analysis	6	5	3	25	75	100
	Core Course – XIII (CC)		fferential Geometry	6	5	3	25	75	100
			dvanced Numerical	6	5	3	25	75	100
IV	Core Course – XIV(CC)		nalysis						
	Elective Course – V (EC)			6	3	3	25	75_	100
	Project			6	_5	-	-	<u> </u>	100
	TO	30	23				500		
	GRAND T	TO	AL	120	90				2000

List of Elective Courses (For 2016 - 2017):

	Elective I			Elective II				
1	Advanced Probability Theory		1	Stochastic Processes				
2	Mathematical Modeling		2	Tensor Analysis and Special Theory of Relativity				
3	Fuzzy sets and their Applicat	tions	3	Non linear Differential Equations				
	Elective III			Elective IV				
1	Design and Analysis of Algor	ithms	1	Financial Mathematics				
2	Discrete Mathematics		2	Advanced Operations Research				
3	Automata Theory		3	Combinatorics				
		Elec	tive \	7				
1	Algebraic Topology							
2	Fluid Dynamics							
3	Algebraic Number Theory							

Note:

Project) Marks
Dissertation		Marks
Viva Voice	: 20	Marks
Core Papers	-	10
Core Practical	-	4
Elective Papers	-	5
Project	-	1

Note:

1. Theory Internal 2. Practical	25 marks	External	75 marks
	40 marks	"	60 marks

Note:

1. Theory	Internal	25 marks	External	75 marks
2. Practical	"	40 marks	33	60 marks

3. Separate passing minimum is prescribed for Internal and External

a) The passing minimum for CIA shall be 40% out of 25 marks (i.e. 10 marks)

b) The passing minimum for University Examinations shall be 40% out of 75 marks (i.e. 30 marks)

c) The passing minimum not less than 50% in the aggregate.

Reference/Text Books contain the following details:

- I. Name of the Author
- II. Title of the Book
- III. Name of the Publisher
- IV. Year

Department of Mathematics

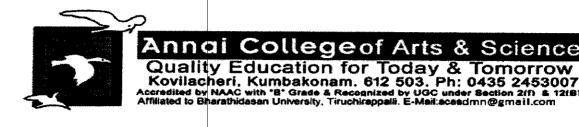
Batch: 2019 - 2021

List of Elective Papers

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apers.1	Fuzzy sets and their Applications		7				4								
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Head, Department of Mathematics Anna, College of Ans & Science, Komment, Kumbakonam:612:503

Annal College of Arts & School



Justification on Elective Selection

Mathematical Modeling

Mathematical models are used in the natural sciences (such as physics, biology, earth science, chemistry) and engineering disciplines (such as computer science, electrical engineering), as well as in non-physical systems such as the social sciences (such as economics, psychology, sociology, political science).

Stochastic Processes

A method of Financial Modeling in which one or more variables with in the model are Random. Stochastic Modeling is for the purpose of estimating the probability of Outcomes within a forecast to predict what conditions might be like under different situation. The random variables are usually constrained by historical data, such as past market returns.

Discrete Mathematics

All computer Data is represented using Binary. Binary digits can be grouped together into bytes.

- Discrete math in Railway planning
- Discrete math in Computer Graphics
- Discrete math in cryptography
- Discrete math in Google maps
- Discrete math in Logistics, Image processing, Networks, Voting systems etc...

Advanced Operations Research

Operation research is the Scientific study of operations for the purpose of making better decisions. Operations Research can be applied to a variety of use cases including,

- Scheduling and time management
- Urban and agricultural planning
- Network optimization and Engineering

Algebraic Topology

Theoretical or fundamental topology is a bit dry but the Applications part is what drives crazy once we get used. In this paper we discuss some Applications in various fields of Science of Science and Technology, like Applications of Biology, Robotics, GTS, Engineering, Computer sciences.



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