Annai College of Arts & Science
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

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

PRINCIPAL

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

Annai College of Arts & Science
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

IQAC

Annai College Of Arts & Science IQAC Kovilacheri, Kumbakonam

PRINCIPAL

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

Annai College of Arts & Science
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

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 other Language Except Tamil					
3	Basic Tamil	II	III	NIL	-
4	Special Tamil	II	IV	NIL	-

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

IQAC

Annai College Of Arts & Science • IQAC • Kovilacheri, Kumbakonam-612 503

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

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

Annai College of Arts & Science
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

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.

HOD

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

COPY TO :

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

Annai College of Arts & Science
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

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

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

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

PRINCIPAL
Principal
Annai College of Arts & Scienc
Kovilachery, Kumbakonam-612 50

ANNEXURE I

NON MAJOR ELECTIVES (ARTS)

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

Sl. No.	DEPARTMENT OFFERING THE NON-MAJOR ELECTIVE COURSES	TITLE OF THE NON-MAJOR ELECTIVE COURSES
1.	Applied Tamil	I. தமிழ் நடைக்கூறுகள் II. சிந்தனையியல்
2.	B.Litt.	
3.	Pulavar Degree	
4.	Tamil	
5.	B.B.A. (Bachelor of Business Administration)	I. Management Principles **(or)** Stock Exchange Practices II. Banking Practices **(or)** International Business
6.	B.Com.	I. Personal Investment **(or)** Elements of Insurance II. Introduction to Accountancy **(or)** Salesmanship
7.	B.Com. (Applied)	
8.	B.Com. (Computer Applications)	
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)

Sl. 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.	BCA	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 Internet II. Fundamentals of Information Technology
8.	Electronics	I. Principles of Electronics II. 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	I. Basic Tamil / Special Tamil II. Basic Tamil / Special Tamil
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 II. Biofertilizer 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	I. Management and Entrepreneurship II. Marketing and Merchandising
22.	Visual Communication	I. Basics of Communication II. Communication Personality Development
23.	Zoology	I. Public Health and Hygiene II. Ornamental fish farming

Annai College of Arts & Science
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 acasdmin@gmail.com

Department of Mathematics
Batch: 2019 - 2022

S.NO	Name	Reg.NO	List of Departments in our College													Signature
			Tamil	Eng	BBA	B.Com	CS	BCA	Vis.com	BT	MB	BC	BHM	Physics	Chemistry	
1	Abinaya.M	CB19S378126			✓											M. Abinaya
2	Akash.S	CB19S378127			✓											Akash.S
3	Babyatchaya.R	CB19S378128					✓									Babyatch.R
4	Dharani.D	CB19S378129			✓											Dhar
5	Manikandan.T	CB19S378130						✓								Manik.
6	Sarubala.B	CB19S378131			✓											Saru.
7	Surya.T	CB19S378132			✓											Surya.T
8	Thenkuzhali.M	CB19S378133			✓											Thenkuzh.M

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

IQAC

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

Annai College of Arts & Science
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

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

IQAC

Annai College Of Arts & Science IQAC Kovilacheri, Kumbakonam-612 503

PRINCIPAL

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

Annai College of Arts & Science
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

Choice Based Credit System (CBCS)-File

Mode of Skill Based Elective Papers Chosen

BATCH: 2019 - 2022

Annai College of Arts & Science
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

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

Annai College Of Arts & Science • IQAC • Kovilacheri, Kumbakonam-612 503

PRINCIPAL

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

Annai College of Arts & Science
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

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.

HOD
Head, Department of Mathematics
Annai College of Arts & Science,
Kovilacheri, Kumbakonam-612 501

COPY TO :

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

Annai College of Arts & Science
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

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

Annai College Of Arts & Science • IQAC • Kovilacheri, Kumbakonam-612 503

PRINCIPAL

Principal
Annai College of Arts & Scienc
Kovilachery, Kumbakonam-612 50

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
1.	Clinical Microbiology	I	IV	Clinical Bacteriology
		II	V	Clinical Mycology and Virology
		III	V	Clinical Parasitology
2.	Computer Application	I	IV	Hardware Troubleshooting
		II	V	Ruby on Rails
		III	V	Web Services
3.	Customer Relationship Management	I	IV	Overview of Customer Relationship Management (CRM)
		II	V	CRM in Services Marketing & its Tools
		III	V	E – CRM (Virtual Marketing)
4.	Desktop Publishing	I	IV	Page Maker
		II	V	Corel Draw
		III	V	Dream weaver
5.	Herbal Medicine	I	IV	Ethno Medicine
		II	V	Pharmacognosy
		III	V	Herbs and Drug Action
6.	Journalism and Public Relations	I	IV	Journalism and Mass Media
		II	V	Reporting and Editing
		III	V	Public Relations
7.	Office Management	I	IV	Introduction to Office Management
		II	V	Office Management Tools
		III	V	Communication & Interpersonal Skills
8.	Sales and Marketing Management	I	IV	Introduction to Marketing Management
		II	V	Sales Management
		III	V	Retail Management
9.	Tourism and Travel Management	I	IV	Tourism and Travel Agency
		II	V	Cultural Tourism in India
		III	V	Tourism Product – 3
10.	Yoga and Stress Management	I	IV	Fundamentals of Yogic Practices
		II	V	Stress Management Through Yoga
		III	V	Asanas and Pranayamas – Practical
11.	அச்சு ஊடகங்கள்	I	IV	தமிழ் இதழியல் வரலாறு
		II	V	நாளிதழ் உருவாக்கமும் வடிவமைப்பும்
		III	V	இலக்கிய இதழ்கள்
12.	**Biotechnology**	I	IV	Aqua Culture
		II	V	Biofertilizer
		III	V	Mushroom Cultivation and Value Addition
13.	**Chemistry**	I	IV	Food and Nutrition
		II	V	Agricultural Chemistry
		III	V	Dyeing Techniques and Water Treatment

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

Annai College of Arts & Science
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

Batch: 2019 - 2022

S.NO	Name	Reg.NO	List of Skill Baesd Elective																		Signature
			Clinical MB	Computer Application	CRM	Desktop publishing	Herbal Medicine	Journalism & bublic Relations	Office Mgt	Sales and Marketting Management	Tourism a& Travel Management	Yoga & Stress Mgt	Atchu Udagankal	Chemistry	Biotech	Electronics	HM&CS	MB	Zoology	
1	Abinaya.M	CB19S378126				✓														
2	Akash.S	CB19S378127				✓														
3	Babyatchaya.R	CB19S378128						✓												
4	Dharani.D	CB19S378129				✓														
5	Manikandan.T	CB19S378130				✓														
6	Sarubala.B	CB19S378131						✓												
7	Surya.T	CB19S378132								✓										
8	Thenkuzhali.M	CB19S378133				✓														

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

IQAC

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

Annai College of Arts & Science
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

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,
Kov...neri, Kumbakonam-612 503

IQAC
Annai College Of Arts & Science
IQAC
612 503

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

Annai College of Arts & Science
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

Choice Based Credit System (CBCS)-File

Mode of Major Based Elective Papers Chosen

Batch : 2019-2022

Annai College of Arts & Science
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

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

IQAC

Annai College Of Arts & Science • IQAC • Kovilacheri, Kumbakonam-612 503

PRINCIPAL

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

Annai College of Arts & Science
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

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.

HOD

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

COPY TO :

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

Annai College of Arts & Science
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

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

IQAC

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

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

ANNEXURE III

BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI - 620 024.

B.Sc. Mathematics — Course Structure under CBCS

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

Updated on 09.07.2018

Sem	Part	Course	Title	Ins. Hrs	Credit	Exam Hours	Marks Int	Marks Ext.	Total
I	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
	III	Core Course – I (CC)	Differential Calculus and Trigonometry	5	5	3	25	75	100
		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
II	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
	III	Core Course – III (CC)	Differential Equations and Laplace Transforms	5	5	3	25	75	100
		Core Course – IV (CC)	Analytical Geometry 3D	4	3	3	25	75	100
		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
III	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
	III	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
		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 studied Tamil upto 10th +2 but opt for other languages in degree programme	Quantitative Aptitude I	2	2	3	25	75	100
	TOTAL			30	20				600

IV	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
	III	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
		Second Allied Course – II (AP)		3	3	3	40	60	100
		Second Allied Course – III		3	2	3	25	75	100
	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 10th +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
V	III	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
		Core Practical – I (CP)	Numerical Methods with MATLAB Programming (P)	2	2	3	40	60	100
		Major Based Elective – I	Operations Research / Stochastic Processes	5	5	3	25	75	100
	IV	Skill Based Elective – II	Skill Based Elective - II	2	2	3	25	75	100
		Skill Based Elective – III	Skill Based Elective - III	2	2	3	25	75	100
		Soft Skills Development	Soft Skills Development	2	2	3	25	75	100
	TOTAL			30	28				800
VI	III	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
		Major Based Elective II	Graph Theory / Mathematical Modelling	6	5	3	25	75	100
		Major Based Elective III	Astronomy / Number Theory	6	5	3	25	75	100
	V	Extension Activities	Extension Activities	-	1	-	-	-	-
		Gender Studies	Gender Studies	1	1	3	25	75	100
	TOTAL			30	27				600
GRAND TOTAL				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)

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

+ 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

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:

	Internal Marks	External Marks
1. Theory	25	75
2. Practical	40	60

3. Separate passing minimum is prescribed for Internal 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]

*****

Annai College of Arts & Science
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
Batch: 2019 - 2022

S.NO	Name	Reg.NO	List of Major Based Elective						Signature
			Operations Research	Stochastic Processes	Graph Theory	Mathematica l Modelling	Astronomy	Number Theory	
1	Abinaya.M	CB19S378126	✓		✓		✓		Abinaya.M
2	Akash.S	CB19S378127		✓				✓	Akash.S
3	Babyatchaya.R	CB19S378128	✓		✓				Babyatchaya.R
4	Dharani.D	CB19S378129	✓		✓		✓		Dharani.D
5	Manikandan.T	CB19S378130	✓		✓	✓			Manikandan.T
6	Sarubala.B	CB19S378131	✓		✓		✓		Sarubala.B
7	Surya.T	CB19S378132		✓		✓		✓	Surya.T
8	Thenkuzhali.M	CB19S378133	✓		✓		✓		Thenkuzhali.M

HOD

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

IQAC

Annai College Of Arts & Science • IQAC • Kovilacheri, Kumbakonam-612 503

PRINCIPAL

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

Annai College of Arts & Science
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

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

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

IQAC

Annai College Of Arts & Science
IQAC
Kovilacheri, Kumbakonam-612 503

PRINCIPAL

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

Annai College of Arts & Science
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

PG

Choice Based Credit System (CBCS)-File

Mode of Elective Papers Chosen

BATCH: 2019 - 2021

HOD

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

IQAC

Annai College Of Arts & Science
IQAC
Kovilacheri, Kumbakonam-612 503

PRINCIPAL

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

Annai College of Arts & Science
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

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	III	09	05
5	Algebraic Topology	II	IV	09	05

HOD

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

IQAC

Annai College Of Arts & Science • IQAC • Kovilacheri, Kumbakonam-612 503

PRINCIPAL

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

Annai College of Arts & Science
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

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 for PG students (Batch: 2019-2021). The students are instructed to attend the meeting at 10.00 A.M in the Hall No. 203 without fail.

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

COPY TO :

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

Annai College of Arts & Science
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

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

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

IQAC

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

PRINCIPAL

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

ANNEXURE I

BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI – 620 024.

M.Sc. Mathematics Course Structure under CBCS

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

Sem	Course	Course Title	Ins. Hrs / Week	Credit	Exam Hrs	Marks		Total
						Int.	Ext.	
I	Core Course – I (CC)	Algebra	6	5	3	25	75	100
	Core Course – II (CC)	Real Analysis	6	5	3	25	75	100
	Core Course – III (CC)	Ordinary Differential Equations	6	5	3	25	75	100
	Core Course – IV (CC)	Graph Theory	6	5	3	25	75	100
	Core Course - V (CC)	Integral Equations, Calculus of Variations and Transforms	6	5	3	25	75	100
	TOTAL		**30**	**25**				**500**
II	Core Course – VI (CC)	Complex Analysis	6	5	3	25	75	100
	Core Course – VII (CC)	Linear Algebra	6	5	3	25	75	100
	Core Course – VIII(CC)	Partial Differential Equations	6	5	3	25	75	100
	Elective Course – I (EC)		6	3	3	25	75	100
	Elective Course – II (EC)		6	3	3	25	75	100
	TOTAL		**30**	**21**				**500**
III	Core Course – IX (CC)	Classical Dynamics	6	5	3	25	75	100
	Core Course – X (CC)	Measure and Integration	6	5	3	25	75	100
	Core Course – XI(CC)	Topology	6	5	3	25	75	100
	Elective Course – III (EC)		6	3	3	25	75	100
	Elective Course – IV (EC)		6	3	3	25	75	100
	TOTAL		**30**	**21**				**500**
IV	Core Course – XII (CC)	Functional Analysis	6	5	3	25	75	100
	Core Course – XIII (CC)	Differential Geometry	6	5	3	25	75	100
	Core Course – XIV(CC)	Advanced Numerical Analysis	6	5	3	25	75	100
	Elective Course – V (EC)		6	3	3	25	75	100
	Project		6	5	-	-	-	100
	TOTAL		**30**	**23**				**500**
GRAND TOTAL			**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 Applications	3	Non linear Differential Equations
	Elective III		**Elective IV**
1	Design and Analysis of Algorithms	1	Financial Mathematics
2	Discrete Mathematics	2	Advanced Operations Research
3	Automata Theory	3	Combinatorics
	Elective V		
1	Algebraic Topology		
2	Fluid Dynamics		
3	Algebraic Number Theory		

Note:

Project	:100 Marks
Dissertation	: 80 Marks
Viva Voice	: 20 Marks

Core Papers	-	10
Core Practical	-	4
Elective Papers	-	5
Project	-	1

Note:

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

Note:

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

*****

Annai College of Arts & Science
Quality Education for Today & Tomorrow
Kovilacheri, Kumbakonam - 612 503. Ph: 0435 2463007
Accredited by NAAC with 'B' Grade & Recognized by UGC under Section 2(f) & 12(B)
Affiliated to Bharathidasan University, Tiruchirappalli. E-Mail:acsedmin@gmail.com

Department of Mathematics
Batch: 2019 - 2021
List of Elective Papers

S.NO	Name	Reg.NO	List of Elective Papers-I			List of Elective Papers-II			List of Elective Papers-III			List of Elective Papers-IV			List of Elective Papers-V			Signature
			Advanced Probability Theory	Mathematical Modelling	Fuzzy sets and their Applications	Stochastic Processes	Tensor Analysis and Special Theory of Non Linear Differential Equations		Designs and Analysis of Alogorithm	Discrete Mathematics	Automata Theory	Financial Mathematics	Advanced Operations Research	Combinatorics	Algebraic Topology	Fluid Dynamics	Algebraic Number Theory	
1	ALBINA MARY.A	P19193001		✓		✓	✓		✓	✓		✓	✓		✓		✓	
2	ANU.V	P19193002		✓	✓	✓		✓		✓	✓		✓	✓		✓		
3	BALAMBIGAI.S	P19193003	✓	✓		✓	✓			✓		✓	✓		✓		✓	
4	BENJAMIN FRANKL	P19193004		✓					✓			✓	✓					
5	DIVYA.S	P19193005		✓		✓		✓		✓	✓			✓	✓	✓	✓	
6	KANITHAVENDHAN	P19193006		✓	✓				✓	✓		✓	✓				✓	
7	KARPAGAM.M	P19193007		✓		✓		✓		✓			✓		✓		✓	
8	MEKALA.R	P19193008		✓			✓			✓	✓	✓			✓	✓		
9	NANDHINI.S	P19193009		✓		✓			✓	✓			✓	✓	✓		✓	
10	PAVITHRA.R	P19193010		✓		✓		✓							✓		✓	
11	PRIYA.R	P19193011		✓		✓				✓	✓	✓	✓					
12	SUBHASRI.P	P19193012		✓		✓	✓						✓		✓		✓	
13	TAMIZHARASAN.P	P19193013		✓		✓				✓			✓		✓			

HOD

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

IQAC

Annai College of Arts & Science • IQAC • Kovilacheri, Kumbakonam

PRINCIPAL

Principal
Annai College of Arts & Science
Kovilacheri, Kumbakonam

Annai Collegeof Arts & Science
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:acaedmn@gmail.com

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, GIS, Engineering, Computer sciences.

HOD

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

IQAC

Annai College Of Arts & Science
IQAC
Kovilacheri, Kumbakonam-612 503

PRINCIPAL

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