



Annai College of Arts & Science

Quality Education for Today & Tomorrow

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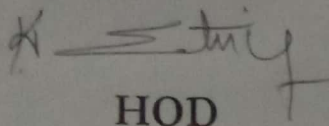
DEPARTMENT OF PHYSICS

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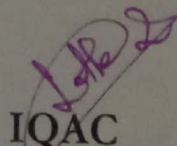
Choice Based Credit System (CBCS)-File

Mode of Elective Papers Chosen

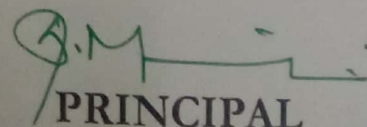
BATCH: 2020 - 2023


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Head Dept. of Physics
Annai College of Arts & Science
Kovilachery - 612 503


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


PRINCIPAL

Principal
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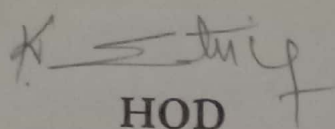
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DEPARTMENT OF PHYSICS

Choice Based Credit System (CBCS)-File

Mode of Non-Major Elective Chosen

2020 - 2023


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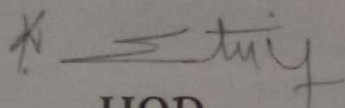
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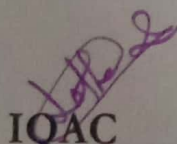
Academic Year 2021-2022

Non- Major Elective Papers taken from Chemistry (NME)

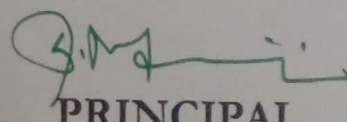
S.No	Name of the Non Major Elective	Year II / III	Semester Odd/Even	No. of Students	Credit Hours
1.	Chemistry in Everyday Life	II	III	08	02
2.	Health Chemistry	II	IV	08	02
Only for other Language Except Tamil					
2	Basic Tamil	II	III	NIL	02
3	Special Tamil	II	IV	NIL	02


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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



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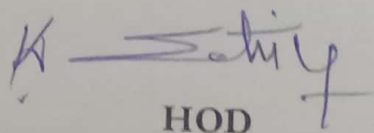
Date: 23.06.2021

CIRCULAR

This is to inform you that our Department is planned to conduct meeting on 23.06.2021 regarding the selection of Non-Major Elective Papers(NME) only for second year students (Batch: 2020-2023). The students are instructed to attend the meeting at 10.00 A.M in Physics Laboratory without fail.

Copy to:

1. Department File
2. Department Notice Board
3. To be Read in Class Room


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DEPARTMENT OF PHYSICS

MINUTES OF MEETING

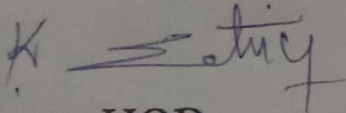
Date: 23.06.2021

AGENDA

The selection of Non-Major Elective Papers only for second year students (Batch: 2020-2023), HOD has arranged a meeting for class representatives through a circular dated on 23.06.2021.

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 choose Arabic, French, and Hindi as language, they are eligible to select the NME papers.
 - a. Basic Tamil
 - b. Sirappu Tamil



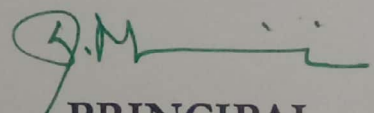
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ANNEXURE I

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



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Department of Physics
Batch: 2020 - 2023

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
1	ANEESHRAMAN T	CB20S 446178												✓	Anees Ramapriya
2	ANNE JOLLY A	CB20S 446179												✓	A. Jolly A.
3	CHITRAPAVAI V K	CB20S 446180												✓	V.K. Chitra Gowda
4	DHONI REGNIC A	CB20S 446181												✓	Dhoni Regnic A.
5	JANNATHUL PRUDOUS A	CB20S 446182												✓	A. Jannathul
6	KEERTHANA S	CB20S 446183												✓	Keerthana S.
7	SRIMATHI M	CB20S 446184												✓	M. Srimathi
8	SUBA S	CB20S 446185												✓	S. Suba

(Signature)
HOD

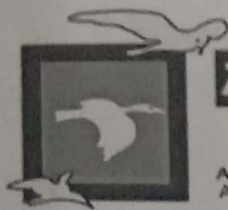
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(Signature)
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Justification on Non- Major Elective Selection

Chemistry in Everyday Life

CHEMISTRY IN EVERYDAY LIFE AS A VERY USEFUL AND VALUABLE FOR THE SCIENCE STUDENT.

THE STUDENT WANTS TO BEGIN THEIR CAREER IN THE EVERYDAY LIFE IN THE CHEMISTRY AND TO LEARN THE FUNDAMENTAL OF CHEMISTRY.

Health Chemistry

Health Chemistry Contributes To the Preparation and Use Of Materials For Surgery.

The Student wants to begin their health Chemistry are medical explorers looking for new ways to maintain and improve our health.

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DEPARTMENT OF PHYSICS

Choice Based Credit System (CBCS)-File

Mode of Skill Based Elective Papers Chosen

BATCH: 2020 - 2023

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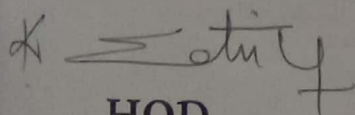
DEPARTMENT OF PHYSICS

Academic Year 2021-22 & 2022-23

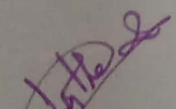
Skill Based Elective Papers taken from

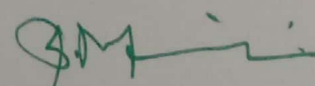
Desk Top Publishing (SBE)

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


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DEPARTMENT OF PHYSICS

Date: 13.12.2021

CIRCULAR

This is to inform you that our Department is planned to conduct meeting on 13.12.2021 regarding the selection of Skill Based Elective Papers (SBE) only for second year students (Batch: 2020-2023). The students are instructed to attend the meeting at 10.00 A.M in Physics Laboratory without fail.

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DEPARTMENT OF PHYSICS

MINUTES OF MEETING

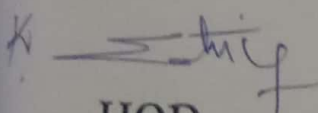
Date: 13.12.2021

AGENDA

The selection of Skill Based Elective Papers only for second year students (Batch: 2020-2023), HOD has arranged a meeting for class representatives through a circular dated on 13.12.2021.

The following points were discussed in the meeting.

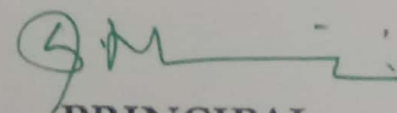
1. Discussed the list of SBE papers with the students.
2. Student Cleared the doubts regarding the scope of each paper with staff members
3. Finally they selected the SBE papers.


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ANNEXURE I

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.	அச்ச 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



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Department of Physics

Batch: 2020 - 2023

S.NO	Name	Reg.NO	List of Skill Based Elective												Signature				
			Clinical MB	Computer Application	CRM	Desktop Publishing	Herbal Medicine	Public Relations	Office Mgt	Sales and Marketing Management	Tourism & Travel Management	Yoga & Stress Mgt	Atchu Udagankal	Chemistry		Biotech	Electronics	HM&CS	MB
1	ANEESH RAMAN T	CB20S 446178				✓													Aneesh Ramani
2	ANNE JOLLY A	CB20S 446179				✓													Anne Jolly
3	CHITRAPAVAI V K	CB20S 446180				✓													Chitra Pavai
4	DHONI REGNIC A	CB20S 446181				✓													Dhoni Regnic
5	JANNATHUL PRUDOUS A	CB20S 446182				✓													A. Jannathul
6	KEERTHANA S	CB20S 446183				✓													Keerthana
7	SRIMATHI M	CB20S 446184				✓													Srimathi M
8	SUBA S	CB20S 446185				✓													S. Suba

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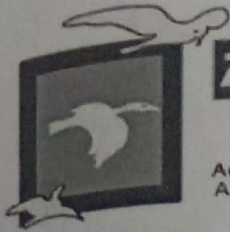
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Justification On Skill Based Elective Selection

Page Maker

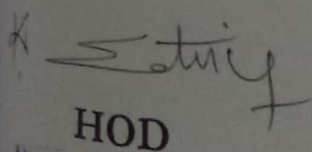
With the help of Page Maker applications, the knowledge is gained to create complex multiple page books, brochures and other printable materials can be easily handled by binding the whole paper layout on a single sheet that dissolves the confusion of managing hundreds of pages.

Corel Draw

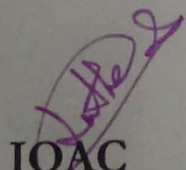
Corel Draw is vector based designing software is used to create logos, flexes, brochures, invitation cards and any kind of vector designing based on the lining.

Dream Weaver

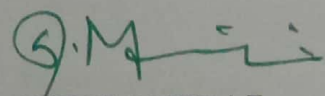
Dream Weaver supports many make up languages including HTML, XML, CSS and Java script. This makes it possible for non coders to create web content. It helps to develop to build web sites are the internet or an intranet, and developing designs, code and manage web sites as well as mobile content.


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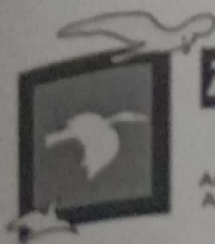
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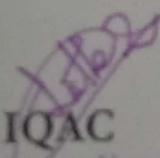
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Mode of Major Based Elective Papers Chosen

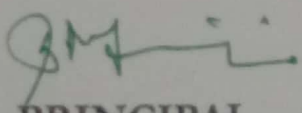
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DEPARTMENT OF PHYSICS

Academic Year 2021-22

Major Based Elective Papers

No	Name of the Major Based Elective	Year II / III	Semester Odd/Even	No. of Students	Credit Hours
1	Material Science	III	V	08	05
2	Microprocessor & Microcontroller	III	VI	08	06
3	Communication Physics	III	VI	08	06


HOD

Head Dept. of Physics
Annai College of Arts & Science
Kovilachery - 612 503


IQAC

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


PRINCIPAL

Principal
Annai College of Arts & Science
Kovilachery, 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



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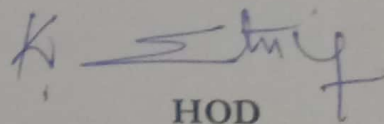
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DEPARTMENT OF PHYSICS

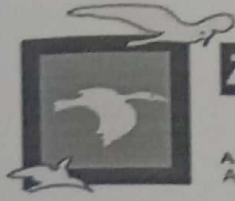
Date: 13.12.2021

CIRCULAR

This is to inform you that our department is planned to conduct meeting on 13.12.2021 regarding the selection of Major Based Elective Papers (MBE) only for second year students (Batch: 2020-2023). The students are instructed to attend the meeting at 10.00 A.M in Physics Laboratory without fail.


HOD

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Annai College of Arts & Science
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DEPARTMENT OF PHYSICS
MINUTES OF MEETING

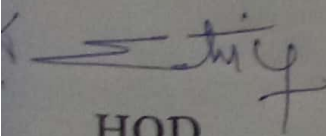
Date: 13.12.2021

AGENDA

The selection of Major Based Elective Papers only for second year students (Batch: 2020-2023), HOD has arranged a meeting for class representatives through a circular dated on 13.12.2021.

The following points were discussed in the meeting.

4. Discussed the list of MBE papers with the students.
5. Student Cleared the doubts regarding the scope of each paper with staff members
6. Finally they selected the MBE papers.


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ANNEXURE I



Semin	Part	Course	Title	Inst. Hours/ Week	Credit	Exam Hours	Marks		Total
							Int	Ext	
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)	Properties of Matter and Acoustics	6	6	3	25	75	100
		Core Practical - I (CP)	Practical I	3	-	-	-	-	-
		First Allied Course-I (AC)		4	4	3	25	75	100
		First Allied Course-II (AC)		3	-	-	-	-	-
	IV	Value Education	Value Education	2	2	3	25	75	100
	Total			30	18				500
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-II (CC)	Mechanics	6	6	3	25	75	100
		Core Practical - I (CP)	Practical I	3	3	3	40	60	100
		First Allied Course-II (AC)		3	3	3	25	75	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	22				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 - III (CC)	Thermal Physics	6	6	3	25	75	100
		Core Practical - II (CP)	Practical II	3	-	-	-	-	-
		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 +2 but opt for other languages in degree programme	Energy Physics	2	2	3	25	75	100
	Total			30	18				500

I	Language Course - IV (LC) - Tamil / Other Languages - II		6	3	3	25	75	100
	English Language Course - IV (ELC)		6	3	3	25	75	100
	Core Course - IV (CC)	Electricity, Magnetism and Electro Magnetism	5	5	3	25	75	100
	Core Practical - II (CP)	Practical II	3	3	3	40	60	100
	Second Allied Course - II (AP)		3	3	3	40	60	100
	Second Allied Course - II		3	3	3	25	75	100
	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 +5 but not for other languages in degree programme	Learn Physics	2	2	3	25	75	100
	Skill Based Elective - I	Skill Based Elective - I	2	2	3	25	75	100
Total			30	33				600
II	Core Course - V (CC)	Optics	5	5	3	25	75	100
	Core Course - VI (CC)	Atomic and Molecular Physics	5	5	3	25	75	100
	Core Course - VII (CC)	Electronics	6	6	3	25	75	100
	Core Practical - III (CP)	Practical III	3	3	3	40	60	100
	Major Based Elective - I	Natural Science	5	5	3	25	75	100
	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	29				600
	Core Course - VIII (CC)	Nuclear Physics	6	6	3	25	75	100
III	Core Course - IX (CC)	Theoretical Physics	6	6	3	25	75	100
	Core Practical - IV (CP)	Practical IV	3	4	3	40	60	100
	Major Based Elective II	Microprocessors and C Programming	6	6	3	25	75	100
	Major Based Elective III	Communication Physics	6	6	3	25	75	100
	Extensive Activities	Extensive Activities	-	1	-	-	-	-
	Gender Studies	Gender Studies	1	1	3	25	75	100
	Total		30	30				600
Grand Total			160	140				3600

List of Allied Courses

Allied Course I

Mathematics

Language Part - I	-	4
English Part - II	-	4
Core Paper	-	6
Core Practical	-	4
Allied Paper	-	5
Allied Practical	-	5

Allied Course II

Chemistry / Computer Science

Non-Major Elective	-	2	
Self 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

- Basic Tamil I & II for other language students
- 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]



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Department of Physics
Batch: 2020-2023

S.NO	Name	Reg.NO	List of Major Based Elective			Signature
			Material Science	Microprocessor & 'C' Programming	Communication Physics	
1	ANESH RAMAN T	CB20S 446178	✓	✓	✓	Anees Raman
2	ANNE JOLLY A	CB20S 446179	✓	✓	✓	Anees Raman
3	CHITRA PAVAI V K	CB20S 446180	✓	✓	✓	V. K. Chitra Pavai
4	DHONI REGNIC A	CB20S 446181	✓	✓	✓	Dhoni Regnic
5	JANNATHUL PRUDOUS A	CB20S 446182	✓	✓	✓	A. Jannathul
6	KEERTHANA S	CB20S 446183	✓	✓	✓	Keerthana
7	SRIMATHI M	CB20S 446184	✓	✓	✓	Srimathi
8	SUBA S	CB20S 446185	✓	✓	✓	S. Suba

K. Satish
HOD

[Signature]
IQAC Coordinator
Annai College of Arts & Science
Kovilachery, Kumbakonam-612 503

[Signature]
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Principal
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Head Dept. of Physics
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Justification on Major Based Elective Selection

Material Science

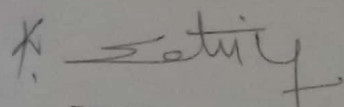
Materials science is therefore important to engineering activities such as **electronics, aerospace, telecommunications, information processing, nuclear power, and energy conversion.**

Microprocessor & Microcontroller

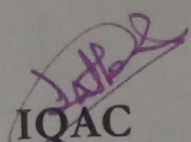
Microprocessor-based systems are thus found everywhere today and not just in computers and smartphones: in automatic testing of products, **speed control of motors, traffic light control, communication equipment, television, satellite communication,** home appliances, such as microwave oven, washing machine, gaming .Microcontroller is straightforward to interface additional RAM, ROM, and I/O port.

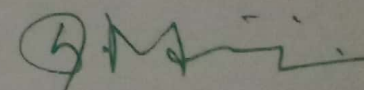
Communication Physics

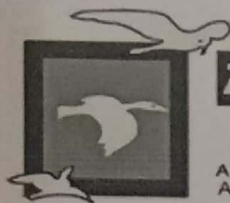
Physics allows us to understand the **electromagnetic radiation** we use to **transmit data with fiber optics and satellites** and to build computers that interpret those signals and transmit data on the internet.


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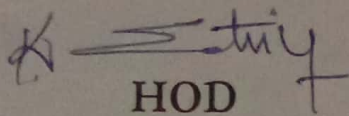
DEPARTMENT OF PHYSICS

PG

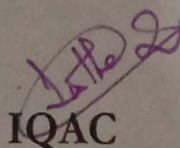
Choice Based Credit System (CBCS)-File

Mode of Major Based Elective Papers Chosen

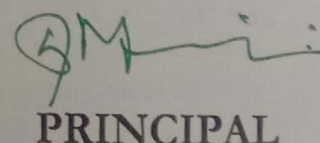
BATCH: 2020 - 2022


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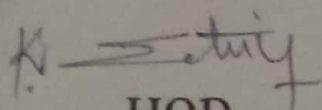
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DEPARTMENT OF PHYSICS

Academic Year 2020-21 & 2021-22

Major Based Elective Papers

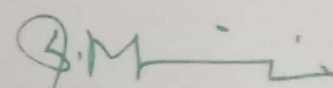
No	Name of the Major Based Elective	Year II / III	Semester Odd/Even	No. of Students	Credit Hours
1	Microprocessor & Microcontroller	I	II	18	05
2	Numerical Methods and C++ Programming	I	II	18	05
3	Crystal Growth & Thin Film Physics	II	III	18	05
4.	Nonlinear Optics	II	III	18	05
5.	Nano Physics	II	IV	18	05


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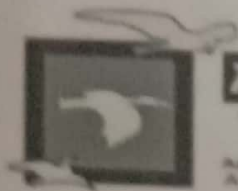
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Acronym & Abbreviation

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



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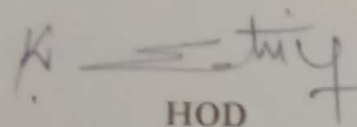
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DEPARTMENT OF PHYSICS

Date: 29.12.2020

CIRCULAR

This is to inform you that our department is planned to conduct meeting on 29.12.2020 regarding the selection of Major Based Elective Papers (MBE) only for PG students (Batch: 2020-2022). The students are instructed to attend the meeting Online at 11.00 A.M in Google Meet without fail.


HOD

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DEPARTMENT OF PHYSICS
MINUTES OF MEETING

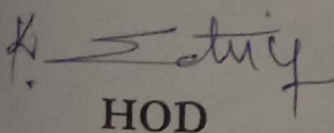
Date: 29.12.2020

AGENDA

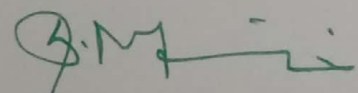
The selection of Major Based Elective Papers only for second year students (Batch: 2020-2022), HOD has arranged a meeting for class representatives through a circular dated on 29.12.2020.

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.


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ANNEXURE I



(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)	Mathematical Physics	6	4	3	25	75	100
	Core Course – II (CC)	Classical Dynamics and Relativity	6	4	3	25	75	100
	Core Course – III (CC)	Electronics	5	4	3	25	75	100
	Core Course – IV (CC)	Methods of Spectroscopy	5	4	3	25	75	100
	Core Practical – I (CP)	Physics Practical – I (General and Electronics)	8	4	3	40	60	100
	TOTAL		30	20				500
II	Core Course – V (CC)	Electromagnetic Theory	6	5	3	25	75	100
	Core Course – VI (CC)	Quantum Mechanics	6	5	3	25	75	100
	Core Practical – II (CP)	Physics Practical – II (Microprocessor and Programming)	8	4	3	40	60	100
	Elective Course – I (EC)	Microprocessor and Microcontroller	5	5	3	25	75	100
	Elective Course – II (EC)	Numerical Methods and C++ Programming	5	5	3	25	75	100
	TOTAL		30	24				500
III	Core Course – VII (CC)	Statistical Mechanics	6	5	3	25	75	100
	Core Course – VIII (CC)	Solid State Physics	6	5	3	25	75	100
	Core Practical – III (CP)	Physics Practical – III (General and Electronics)	8	4	3	40	60	100
	Elective Course – III (EC)	Crystal Growth and Thin Film Physics	5	5	3	25	75	100
	Elective Course – IV (EC)	Nonlinear Optics	5	5	3	25	75	100
	TOTAL		30	24				500
IV	Core Course – IX (CC)	Nuclear and Particle Physics	5	5	3	25	75	100
	Core Course – X (CC)	Advanced Physics	5	5	3	25	75	100
	Core Practical – IV (CP)	Physics Practical – IV (Electronics)	8	4	3	40	60	100
	Elective Course – V (EC)	Nanophysics	5	4	3	25	75	100
	Project		7	4	-	-	-	100
	TOTAL		30	22				500
GRAND TOTAL			120	90				2000

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

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

Notes:

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

3. Separate passing minimum is prescribed for Internal and External

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

Department of Physics
Batch: 2020 - 2022

S.NO	Name	Reg.NO	List of Major Based Elective					Signature
			Microprocessor & Microcontroller	Numerical Methods & 'C' Programming	Crystal Growth & Thin Film Physics	Nonlinear Optics	Nano Physics	
1	ABIRAMI C	P 20203901	✓	✓	✓	✓	✓	C. Abirami
2	DEEPIKA R	P 20203902	✓	✓	✓	✓	✓	R. Deepika
3	DHANALAKSHMI G	P 20203903	✓	✓	✓	✓	✓	G. Dhana Lakshmi
4	DHIVYA C	P 20203904	✓	✓	✓	✓	✓	C. Divya
5	ELAVARASI G	P 20203905	✓	✓	✓	✓	✓	G. Elavarasi
6	ISHWARYA K	P 20203906	✓	✓	✓	✓	✓	K. Ishwarya
7	KARTHIRAVAN K	P 20203907	✓	✓	✓	✓	✓	K. Karthi
8	MEENATCHI G	P 20203908	✓	✓	✓	✓	✓	G. Meenatchi
9	NANDHISHWARAN S	P 20203909	✓	✓	✓	✓	✓	S. Nandhishwaran
10	PANDIYARAJAN M	P 20203910	✓	✓	✓	✓	✓	M. Pandiyarajan
11	PRASATH T	P 20203911	✓	✓	✓	✓	✓	T. Prasath
12	PRAVEENA P	P 20203912	✓	✓	✓	✓	✓	P. Praveena
13	RAJALAKSHMI B	P 20203913	✓	✓	✓	✓	✓	B. Rajalakshmi
14	RANJITHA M	P 20203914	✓	✓	✓	✓	✓	M. Ranjitha
15	SUBASRI J	P 20203915	✓	✓	✓	✓	✓	J. Subasri
16	THIRUGNANASAMBANDHAM G	P 20203916	✓	✓	✓	✓	✓	G. Thirugnanasambandham
17	VARSHA B	P 20203917	✓	✓	✓	✓	✓	B. Varsha
18	VIGNESH J	P 20203918	✓	✓	✓	✓	✓	J. Vignesh

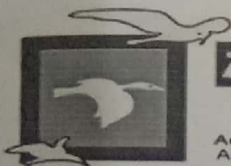
K. Sathya
HOD

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Justification on Major Based Elective Selection

Microprocessor & Microcontroller

Microprocessor-based systems are thus found everywhere today and not just in computers and Smartphone: in automatic testing of products, speed control of motors, traffic light control, communication equipment, television, satellite communication, home appliances, such as microwave oven, washing machine, gaming .Microcontroller is straightforward to interface additional RAM, ROM, and I/O port.

Numerical Methods & 'C' Programming

Numerical methods are used in mathematics and computer science that creates, analyzes, and implements algorithms to obtain the numerical solutions to problems using continuous variables. Such problems arise throughout the natural sciences, social sciences, engineering, medicine, and also in business.

Crystal Growth & Thin Film Physics

A crystal is a solid material whose constituent atoms, molecules, or ions are arranged in an orderly repeating pattern extending in all three spatial dimensions. Crystal growth is a major stage of a crystallization process, and consists of the addition of new atoms, ions, or polymer strings into the characteristic arrangement of the crystalline lattice.

Nonlinear Optics

These graduate students should have backgrounds in Physics, Engineering, or Chemistry, and Physics Department student. Nonlinear optics play a major role in many of the optical applications such as optical signal processing, optical computers, ultrafast switches, ultra-short pulsed lasers, sensors, laser amplifiers, and many others.

Nano Physics

Nanotechnology is the science of management and manipulation of atoms and molecules to design a new technology. Nanotechnology is the supramolecular technology, which means, it is the engineering of functional systems at the molecular or supramolecular scale.

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