

15.03.2021

Board of Studies Meeting

The following staff members attended the board of studies meeting held on 15.03.2021 at 10.30 am in the Chemistry Department, Sadakathullah Appa College, Rahmath Nagar, Tirunelveli.

1. Dr. A. Syed Mohamed chairperson A. Syed

2. University Nominee

Dr. V. Rama,

Associate Prof. of Chemistry & Head,

Department of Chemistry & Research Centre,
Sarah Tucker College (Autonomous)

Tirunelveli - 627007.

Sarav

3. Subject Expert - I

Dr. N.M.T. Alhaji,

Associate Prof. of Chemistry,

Department of Chemistry,
Khadi Mohideen College,

Athirampattinam,

Tanjavur Dt. - 614701

4. Subject Expert - II

Dr. Mohamed Mustafa,

Associate Prof. & Head,

PG Department of Chemistry,

The New College,

Royapettai, Chennai - 600014.

5. Alumni :

Dr. M. Syed Ali Padusha,
Associate Professor,
Department of Chemistry,
Jamal Mohamed College,
Trichy - 620 020.

6. Industrialist .

Mr. M. Mohamed Iqbal,
Chemist,
Tuticorin Alkali Chemicals Ltd.,
Tuticorin - 628 005.

~~Signature~~

Members :

Dr. M. Sheik Muhideen Badhusha

Dr. P. Jeslin Kanaga Inba

Dr. P. Antony Danish

Dr. M. Thameem Ansari.

N. Chumbadu

~~Signature~~

(M)

The Board of Studies for B.Sc. Chemistry met on 15.03.2021 at 10.00 a.m.
Venue: The Department of Chemistry, Sadakathullah Appa Collge.

Resolutions:

1. Resolved to approve the course structure under the CBCS pattern for the academic year 2021-2024.
2. Resolved to introduce the new courses and revise the syllabus as mentioned in the Annexure.
3. Resolved to approve the offering 12-Core Courses, 8-Core practical courses, 2-Skill Enhancement Courses, 2- NME Courses, 7-DSE Courses, and 4- Allied Courses, 4- Allied Practical Courses.
4. Resolved to approve the Massive Open Online Courses [MOOC] as skill enhancement course.

The following courses are offered as options under SEC-II:

- (i) Chemical Kinetics and Transition State Theory - 8 weeks
- (ii) Chemistry and Physics of Surfaces and Interfaces - 8 weeks.
- (iii) Pericyclic Reactions and Organic Photochemistry - 8 weeks
- (iv) Quantitative Methods in Chemistry - 8 weeks
- (v) Structure, Stereochemistry and Reactivity of Organic Compounds and Intermediates: A Problem- solving Approach - 8 weeks

5. Resolved to implement the Scheme of Examination for the Practical Courses as follows:

CP1, CP2, CP3, CP4, A1-1P, A1-2P - 3 Hours.

A2-1P and A2-2P- 2 Hours.

CP5, CP6, CP7 and CP8 - 6 Hours.

6. Resolved to conduct external examinations with a duration of 2 hours for Skill Enhancement Courses & Non-Major Courses.
7. Resolved to approve the list of Question Setters and Examiners for UG Major and Allied Chemistry Courses.

A. Syed Md

BOS - Chairperson

CHAIRMAN / CHAIRPERSON

DEAN OF SCIENCES

PRINCIPAL



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Annexure - I

Department of Chemistry (UG)

The Board of Studies of Department of Chemistry (UG) was held on 15.03.2021 for the approval of 2021-2024 syllabus. The number of new courses, courses focussing on Skill Development / Employability / Entrepreneurship, the percentage of revision are mentioned below.

New Courses introduced

S. No.	Title of the Course	Course Code
1	Applied Chemistry I	21UNCH31
2	Applied Chemistry II	21UNCH41
3	Industrial Chemical Analysis (Practical)	21UCCH4P1
4	Allied Physics Practical - II	21UAPH4P1
5	Industrial Chemical Processes	21USCH42
6	Emerging Trends in Chemistry	21UECH61A
7	Environmental Chemistry	21UECH61C
8	Chemistry of Materials	21UECH51B

Courses focused on Skill Development / Employability / Entrepreneurship

S. No.	Title of the Course	Course Code	Category
1.	Methodology of Practicals	21UCCH12	Employability
2.	Inorganic Quantitative Analysis I	21UCCH1P1	Skill Development
3.	Analysis of Carbohydrates and Fatty Acids	21UABC1P1	Skill Development
4.	Organic Chemistry I	21UCCH21	Employability
5.	Preparation of Organic Compounds and Determination of physical Constants	21UCCH2P1	Skill Development
6.	Analysis of Amino Acids and Proteins	21UABC2P1	Skill Development
7.	Inorganic Quantitative Analysis and Preparation of Inorganic Complexes	21UCCH3P1	Skill Development
8.	Industrial Chemical Analysis	21UCCH4P1	Skill Development
9.	Industrial Chemical Processes	21USCH42	
10.	Spectroscopy	21UCCH53	Employability
11.	Physical Chemistry Practical	21UCCH5P1	Skill Development
12.	Gravimetric Analysis and Inorganic Mixture Analysis	21UCCH5P2	Skill Development





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13.	Polymer Chemistry	21UECH51A	Employability
14.	Food Chemistry	21UECH51C	Employability
15.	Instrumental methods of Analysis	21UECH52A	Employability
16.	Organic Analysis and Preparation of Organic Compounds	21UCCH6P1	Skill Development
17.	Chromatography and Green Synthesis	21UCCH6P2	Skill Development
18.	Dairy Chemistry	21UECH61B	Employability
19.	Project	21UECH62	Skill Development
20.	Chromatography	21USCH61	Employability

Percentage of Revision

S. No.	Courses	Course Code	Percentage %
1.	Inorganic Chemistry I	21UCCH11	20%
2.	Methodology of Practicals	21UCCH12	30%
3.	Inorganic Quantitative Analysis	21UCCH1P1	20%
4.	Analysis of Carbohydrates and Fatty Acids	21UABC1P1	25%
5.	Organic Chemistry I	21UCCH21	30%
6.	Physical Chemistry I	21UCCH22	50%
7.	Biochemistry II	21UABC21	20%
8.	Preparation of Organic Compounds and Determination of Physical Constants	21UCCH2P1	20%
9.	Analysis of Amino acids and Proteins	21UABC2P1	30%
10.	Inorganic chemistry II	21UCCH31	30%
11.	Allied Chemistry I	21UAPH31	20%
12.	Inorganic Quantitative Analysis and Preparation of Inorganic Complexes	21UCCH3P1	40%
13.	Industrial Chemical Processes	21USCH42	50%
14.	Allied Chemistry II	21UNCH41	80%
15.	Industrial Chemical Analysis	21UCCH4P1	100%
16.	Chemical Analysis	21UAPH4P1	100%
17.	Inorganic Chemistry III	21UCCH52	40%
18.	Spectroscopy	21UCCH53	10%
19.	Polymer Chemistry	21UECH51A	20%





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20.	Instrumental Methods of Analysis	21UECH52A	20%
21.	Physical Chemistry Practical	21UCCH5P1	15%
22.	Physical Chemistry III	21UCCH62	20%
23.	Emerging Trends in Chemistry	21UECH61A	100%
24.	Diary Chemistry	21UECH61B	20%
25.	Chromatography	21USCH61	10%
26.	Organic Analysis and Preparation of Organic Compounds	21UCCH6P1	20%
27.	Chromatographic Techniques and Green Synthesis	21UCCH6P2	75%
28.	Applied Chemistry I	21UNCH31	100%
29.	Applied Chemistry II	21UNCH41	100%

Total Percentage of Revision: 28.25%

Total number of Courses: 43



PRINCIPAL



16.5.2023

Board of studies Meeting

The following Staff Members attended the Board of Studies meeting held on 16.5.2023 at 2.30 pm in the Chemistry Department, Sadakatullah Appa College, Rahmath Nagar, Tirunelveli.

1. Dr. A. Syed Mohamed chairperson *A. Syed Mohamed*
2. University Nominee
Dr. G. Allen Gnana Raj
Associate Professor,
Department of Chemistry,
Scott Christian College,
Nagercoil - 629 013 *G. Allen Gnana Raj*
3. Subject Expert - I
Dr. J. Sirajudeen,
Assistant Professor of Chemistry,
Jamal Mohamed College,
Tiruchirappalli. *J. Sirajudeen*
4. Subject Expert - II
Dr. N. M. Abdul Kader Jailani.
Associate Professor. *N. M. Abdul Kader Jailani*
Department of Chemistry,
Hajee Karutha Rowther Howdia College,
Uthamapalayam.
5. Alumni
Dr. I. Abulkalam Azath,
Assistant Professor of Chemistry, *I. Abulkalam Azath*
Aditanar College of Arts & Science
Virapandiapatnam,
Tiruchendur

b. Industrialist
 Mr. K. Soosai Muthu,
 Scientist E & Deputy Director, ~~↳ Soosai Muthu~~
 MBT Division,
 CVRDE - DRDO,
 Avadi, Chennai.

Members
 Dr. M. Shiekh Muhideen Badhusha ~~N. Chumbasa~~
 Dr. P. Jeslin Kanaga Inba ~~Jnl.~~
 Dr. P. Antony Danish ~~Antony Danish~~
 Dr. M. Thameem Ansari ~~MD~~
 Dr. M. A. Sabitha ~~M.A.Sa~~
 16/05/23

Board of studies meeting was held in the Auditorium on 16.5.2023 at 2.30 pm. The following resolutions were passed.

Resolutions

1. Resolved to approve the structure of the Syllabus.
2. Resolved to offer Allied Biochemistry to Chemistry students. The courses are as follows
 Biochemistry I & Biochemistry II & practical courses of Analysis of carbohydrates & fatty acids & Analysis of amino acids & proteins
3. Resolved to offer Allied chemistry for

Physics / Nutrition & Dietetics students. The courses are as follows: Allied chemistry for Physical Science / Biological Science I & II & Chemistry Practical for Physical Science / Biological Science I & II.

4. Resolved to introduce fundamental concepts in Chemistry as foundation course & also the examination to be conducted in MCQ format.

5. Resolved to fix the timings of Physical Chemistry Practical I & Physical Chemistry Practical II in the III & IV semesters as 1 hour each.

6. Resolved to fix the timings of Gravimetric Analysis & chromatographic Techniques & Qualitative Organic Analysis & Preparation of organic compounds in the V & VI semesters respectively as 6 hrs each.

7. Resolved to introduce Green Chemistry, Extraction & Determination of Physical Constants Practical in the V Semester.

A. S. G. M.

(Chairperson)

Sadakathullah Appa College (Autonomous), Rahmath Nagar, Tirunelveli-627011

Programme Structure and Credits

Department of Chemistry-2023-2026

Sem	Part	Course Type	Title of the course	H/W			C
				L	T	P	
I	III	Core-I	General Chemistry-I	4	1	0	5
	III	Core-P-I	Quantitative Inorganic Estimation (Titrimetry) & Inorganic Preparation	0	0	3	2
	III	EC-T-I	Biochemistry-I	4	0	0	3
	III	EC-P-I	Analysis of Carbohydrates & Fatty acids	0	0	2	1
	IV	SEC-I	Food Chemistry (NME-I)	2	0	0	2
	IV	FC	Fundamental Concepts in Chemistry	2	0	0	2
					18		
II	III	Core-II	General Chemistry-II	4	1	0	5
	III	Core-P-II	Qualitative Inorganic Mixture Analysis	0	0	3	2
	III	EC-T-II	Biochemistry-II	4	0	0	3
	IV	EC-P-II	Analysis of Amino acids & Proteins	0	0	2	1
	IV	SEC-II	Dairy Chemistry(NME-II)	2	0	0	2
	IV	SEC-III	Cosmetics & Personal Grooming	2	0	0	2
					18		
III	III	Core-III	General Chemistry-III	4	1	0	5
	III	Core-P-III	Physical Chemistry Practical-I	0	0	3	2*
	III	EC-T-III	Chemistry for Physical Science-I	4	0	0	3
	III	EC-P-III	Chemistry Practical for Physical Science-I	0	0	2	1
	IV	SEC-IV	Entrepreneur Skills in Chemistry (Practical)	0	0	2	2
	IV	SEC-V	Pesticide Chemistry	2	0	0	2
					18		
IV	III	Core-IV	General Chemistry-IV	4	0	0	4
	III	Core-P-IV	Physical Chemistry Practical-II	0	0	3	2*
	III	EC-T-IV	Chemistry for Physical Science-II	3	0	0	3
	III	EC-P-IV	Chemistry Practical for Physical Science-II	0	0	2	1
	IV	SEC-VI	Instrumental Methods of Chemical Analysis	2	0	0	2
	IV	SEC-VII	Forensic Science	2	0	0	2
	IV	EVS	Environmental Studies	2	0	0	2
				18			16

V	III	Core-V	Organic Chemistry-I	4	1	0	4
	III	Core-VI	Physical Chemistry-I	4	1	0	4
	III	Core-VII	Inorganic Chemistry -I	4	0	0	3
	III	Core-P-V	Gravimetric Analysis & Chromatographic Techniques	0	0	4	2**
	III	EC-V	Industrial Chemistry	4	0	0	4
	III	EC-VI	Industrial Chemical Analysis(Practical)	0	0	2	1
	III	Core-VIII	Project with Viva-Voce	0	0	4	4
	IV	VE	Value Education-I/II	2	0	0	1
	IV	Internship	Internship	-			2
						30	25
VI	III	Core-IX	Organic Chemistry-II	4	1	0	4
	III	Core-X	Inorganic Chemistry-II	4	0	0	3
	III	Core-XI	Physical Chemistry-II	4	1	0	4
	III	Core-P-VI	Qualitative Organic Analysis & Preparation of Organic Compounds	0	0	4	2**
	III	EC-VII	Fundamentals of Spectroscopy	4	0	0	3
	III	EC-VIII	Nano Science/Polymer/pharmaceutical	4	0	0	3
	IV	PCSEC *	Green Chemistry, Extraction and Determination of Physical Constants (Practical)	0	0	4	2
	V	Extension Activities	Sadakath Outreach Programme (SOP) NCC NSS Physical Education RRC YRC Youth Welfare Yoga	-			1 [#] 1
						30	22+1 [#]

* not offered under Naan Mudhalvan prescribed courses for VIth semester

* Examination 4 hrs

** Examination 6 hrs

A. Syed Md

CHAIRMAN / CHAIRPERSON

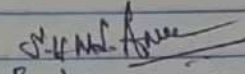
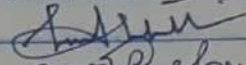
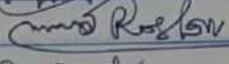
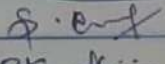
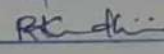
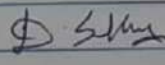
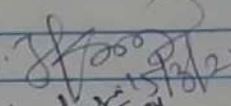
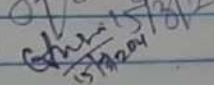


DEAN OF SCIENCES



PRINCIPAL

The board of studies meeting for Physics UG was held on 15-03-2021 at 10:30 am. following members were present

- (1) Dr. S.H. Mohamed Ameen 
- (2) Dr. S.M. Abdul Kader 
- (3) Dr. M. Mohamed Roshan 
- (4) Dr. S. Nazarath Begam 
- (5) Dr. R. Kumuthini 
- (6) Dr. D. Sathya 
- (7) Dr. S.S. Jayabalakrishnan S.S. 
- (8) Mr. P. Mohamed Yusuf Ansari 
- (9) Mrs. A. Zeenath Bazeera.

Sadakathullah Appa College

Department of Physics




15.03.2021

The Board of Studies meeting of Department of Physics (UG) held on 15.03.2021 at the Auditorium (III) to discuss the following agenda.

Agenda:

- ❖ To discuss the Course structure and the Syllabus for various (Core, DSE, SEC, Allied & NME) courses of B.Sc – Physics program.
- ❖ To discuss PO , PSO and CO for the Under Graduate Physics Programme
- ❖ To discuss the Syllabus of theory and Practicals courses for Add on course
- ❖ To discuss the pattern of question papers & choice of paper setters.

Members Present:

- 1) Dr.S.H.Mohamed Ameen, Principal i/c & HOD of Physics- **Chairman**,
- 2) Dr.S.S.Jayabalakrishnan,Assistant Professor of Physics,
MannarThirumalai Naicker College (Autonomous)
Madurai - 625 004 **-Subject Expert**
-Meritorius Alumni
- 3) Mr.Yusuf Ansari
- 4) Dr. S.M. Abdul Kader, Dean of Sciences& Associate Professor
- 5) Dr. M. Mohamed Roshan, Assistant Professor 
- 6) Dr. Nazarath Begum, Assistant Professor 
- 7) Dr. R. Kumudhini, Assistant Professor
- 8) Dr. D. Sathya, Assistant Professor 
- 9) Ms. A Zeenath Bazeera, HOD of Physics (PG)

Based on the agenda the following resolutions were passed by the board and recommended for the Academic Council for further approval.

- ❖ Resolved to approve the Syllabus framed for B.Sc Physics, which is to be introduced from the academic year 2021-22. The changes made in the syllabus with respect to the previous one, is given in Annexure-I
- ❖ Resolved to approve to Programme Outcomes specified for the B.Sc Programme, Programme Specific Outcomes for the Physics (UG) Programme and Course Outcomes related to the various courses.
- ❖ Resolved to include the following courses, in the Add on course titled “Electrical and Electronic Instrumentation” which is to be introduced from the academic year 2021-22
 - 1) Fundamentals of Electrical and Electronic machines and measuring instruments
 - 2) Electrical appliances, Equipments installation and maintenance
 - 3) Practical in Electrical and Electronic Instrumentation.
 - 4) Project relevant to the course

J. H. M. A. Khan
19-02-2021

Head, Department of Physics

[Signature]

Dean of Sciences

[Signature]

Principal



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Annexure - I

Department of Physics (UG)

The Board of Studies of Department of Physics (UG) was held on 15.3.2021 for the approval of 2021-2024 syllabus. The number of new courses, courses focussing on Skill Development / Employability / Entrepreneurship, the percentage of revision are mentioned below.

New Courses introduced

S. No.	Title of the Course	Course Code
1	Mechanics and Properties of matter	21UCPH11
2	Computational Physics	21UCPH41
3	Renewable Energy / Energy Harvesting	21USPH42B
4	Physics workshop Skills	21USPH42C
5	Geophysics	21UEPH51B
6	Recent trends in Physics	21UEPH51C
7	Particle and Astrophysics	21UEPH52C
8	Opto Electronics	21UEPH61B
9	Basic Instrumentation Skills	21USPH61B
10	Weather forecasting	21USPH61C

Courses focused on Skill Development /Employability / Entrepreneurship

S. No.	Title of the Course	Course Code	Category
1.	Physics Practical – I	21UCPH1P1	Skill Development
2.	Physics Practical – II	21UCPH2P1	Skill Development
3.	Physics Practical – III	21UCPH3P1	Skill Development
4.	Physics Practical – IV	21UCPH4P1	Skill Development
5.	Physics Practical V	21UCPH5P1	Skill Development
6.	Physics Practical VI	21UCPH5P2	Skill Development
7.	Physics Practical VII	21UCPH6P1	Skill Development
8.	Physics Practical VIII	21UCPH6P2	Skill Development
9.	Allied Physics Practical – I	21UAPH3P1	Skill Development
10.	Allied Physics Practical – II	21UAPH4P1	Skill Development
11.	Spectroscopy and Laser Physics	21UCPH22	Employability
12.	Electricity and Electromagnetism –	21UCPH31	Employability
13.	Laser Physics	21UNPH31	Employability
14.	Atomic and Nuclear Physics	21UCPH51	Employability
15.	Geo Physics	21UEPH51B	Employability
16.	Recent Trends in Physics	21UEPH51C	Employability
17.	Biomedical Instrumentation	21UEPH52A	Employability





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18.	Particle and Astrophysics	21UEPH52C	Employability
19.	Solid state Physics	21UCPH63	Employability
20.	Opto Electronics	21UEPH61B	Employability
21.	Project	21UEPH62	Entrepreneurship

Percentage of Revision

S. No.	Courses	Course Code	Percentage %
1.	Mechanics and Properties of matter	21UCPH11	81%
2	Optics and Acoustics	21UCPH12	50%
3.	Physics Practical – I	21UCPH1P1	10%
4.	Thermal Physics and Statistical Mechanics	21UCPH21	25%
5	Spectroscopy and laser physics	21UCPH22	30%
6	Physics Practical – II	21UCPH2P1	10%
7	Electricity and Electromagnetism	21UCPH31	60%
8	Physics Practical – III	21UCPH3P1	30%
9	Laser Physics	21UNPH31	50%
10	Computational Physics	21UCPH41	100%
11	Physics Practical – IV	21UCPH4P1	35%
12	Energy Physics	21USPH42-A	45%
13	Renewable energy / Energy Harvesting	21USPH42-B	100%
14	Physics Workshop Skills	21USPH42-C	100%
15	Applied Physics	21UNPH41	20%
16	Atomic and Nuclear Physics	21UCPH51	60%
17	Analog Electronics	21UCPH52	15%
18	Mathematical Methods	21UCPH53	100%
19.	Physics Practical V	21UCPH5P1	20%
20.	Physics Practical VI	21UCPH5P2	10%
21.	Nanomaterials and Applications	21UEPH51A	40%
22	Geophysics	21UEPH51B	100%
23	Recent trends in Physics	21UEPH51C	100%
24	Biomedical instrumentation	21UEPH52A	70%
25	Particle and Astrophysics	21UEPH52C	100%
26	Quantum Mechanics and Relativity	21UCPH61	40%





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27.	Digital Electronics	21UCPH62	15%
28.	Solid State Physics	21UCPH63	25%
29.	Physics Practical - VII	21UCPH6P1	20%
30.	Physics Practical – VIII	21UCPH6P2	10%
31.	Communication system	21UEPH61A	75%
32.	Opto Electronics	21UEPH61B	100%
33.	Radiation Safety	21USPH61A	10%
34.	Basic Instrumentation skills	21USPH61B	100%
35.	Weather forecasting	21USPH61C	100%
36.	Allied Physics – I	21UAPH31	47%
37.	Allied Physics – II	21UAPH41	65%

Total Percentage of Revision: 34.33%

Total number of Courses: 42


PRINCIPAL



The board of studies meeting of the Department of Physics (UG) was held on 18.05.2023 at 2.30 pm to discuss the following agenda.

* To discuss the course structure for B.Sc Physics as per the TANSICHE prescribed syllabi

* To discuss the syllabus for B.Sc - Core Physics and NME Physics, to be followed in semester I & II.

Members present:

1. Dr. M. Mohamed Roshan. M. - chairman

2. Dr. F. Jeya Mangalam
Associate Professor of Physics

Sarab tucker college, Tirunelveli

3. Dr. S. Mohamed Ibrahim Sulaiman Sait

Assistant Professor of Physics

Jamal Mohamed College

Tiruchirapalli - 620020

4. Dr. R. Ganapathi Raman

Associate Professor

Noorul Islam centre for higher Education

Kumarakoil - 629180

5. Dr. S. M. Abdul Kader

6. Dr. S. Nazareth Begam

7. Dr. Asweel Ahmed. A. Jaleel

8. Mrs. A. Feris Fathima

- feris M. A.

9. Dr. R. Kumuthini

- R. Kumuthini

Resolutions.

* It is resolved to follow TANSCHÉ prescribed syllabus for core I - Properties of matter and sound and Introductory Physics

* It is resolved to introduce experiments related to properties of matter and Thermal Physics in Semester I & II

* It is resolved to choose Physics for everyday life and Home electrical installation as choices for SEC-I (NME-I), prescribed by TANSCHÉ

* It is resolved to follow TANSCHÉ prescribed syllabus for core II - Heat Thermodynamics and Statistical Physics including convection and its applications in unit-IV

* It is resolved to choose Fundamentals of Astrophysics and Physics of Music as choices of SEC II (NME-II) prescribed by TANSCHÉ

* It is resolved to include the topic Contribution by Indian Astronomers and observatories in the Indian Continent in unit V in Fundamentals of Astrophysics paper.

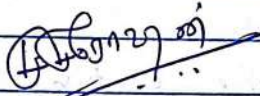
* It is resolved to choose Fundamentals of Energy Physics, prescribed by TANSCHÉ and Geo Physics as choices for SEC-III (DSE)

* It is resolved to remove the topics Solar radiation geometry, solar radiation measurement and solar radiation data in unit II, include introduction to tidal energy instead of tidal energy and remove types of green house gases in unit III, include Kachara gas plant instead of classification of

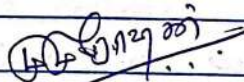
bio-gas plant in unit-IV and include H_2O_2 fuel cell instead of types of cell and include Advantages and disadvantages of Hydrogen Oxygen cell instead of Hydrogen storage in unit-V in Energy Physics paper.

* It is resolved to include the topics Atmospheric/ Weather parameters in Unit-I, remove preparing pseudo cross section for electrical resistivity data interpretation in unit II, remove seismograph equation in unit III and remove Radioactivity of Earths and Radio active dating and rocks and minerals in unit-V.

* It is resolved to introduce a New course Electricity and Electromagnetism as Core-III instead of General Mechanics and Classical Mechanics prescribed by TANSCHE



CHAIRMAN / CHAIRPERSON



DEAN OF SCIENCES



PRINCIPAL,

Board of Study Meeting (16/03/2021)

The following staff members attended the Board of Studies Meeting held on 16/03/2021 at 10.00 am at Department of Chemistry, Sadakattullah Appa College.

- 1.) Dr. A. Syed Mohamed
Research & UG HOD f. Syed
- 2.) Dr. S. M. M. Sheik Mukideen Badkusha N. S. M. M. Sheik Mukideen Badkusha N. 16/3/21
- 3.) Dr. Jeslin Kanaga Inba J. Inba
- 4.) Dr. J. Antony Danish J. Antony Danish 16/03/21
- 5.) Dr. M. Thameem Ansari M. Thameem Ansari 16/3/21
- 6.) Dr. M.A. Sabitha
PG Head
The Chair Person. M.A. Sabitha 16/03/21
- 7.) Dr. B. Imran Khan B. Imran Khan 16/03/21
- 8.) Dr. M. Murthaz Ali
- 9.) Dr. S. Brilliant Resim. S. Brilliant Resim 16/3/21

1) University Nominee

Dr. C. Kannan

2) Subject Expert - 1,

Dr. A. Zahid Hussain

3) Alumni

Dr. Abulkalam Azath.

9. 11

4) Mr. Govindsaj
Industrialist

Resolutions :-

1. Resolved to approve CBCS pattern course structure for the Academic year 2021-24.
2. Resolved to approve 11 core courses, 8 core practicals, 4 DSE courses, 2 IDC courses and one Massive Open online course as Skill Enhancement course.
3. The MOOC courses are (8 week courses)

- a) Introduction to polymer science
- b) Quantitative methods in chemistry
- c) Waste to energy conversion

4. Resolved to approve question setters and examiners

for PU chemistry courses.

5. Resolved to introduce the new course and revise the syllabus as mentioned in the Annexure.

Suggestion given by Alumni was attached.

M.A. Gou
16/03/21

CHAIRMAN / CHAIRPERSON



DEAN OF SCIENCES
Dean of Science


PRINCIPAL

Suggestion of Board member.

I would like to thank for giving me this opportunity to attend Board of studies meeting.

I request you to include industrial visit and instrumental visit to other industries and universities respectively.

I AM

16/3/2021.

(I. ABUL KALAM AMIN)



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Annexure - I

Department of Chemistry (PG)

The Board of Studies of Department of Chemistry (PG) was held on 16.03.2021 for the approval of 2021-2024 syllabus. The number of new courses, courses focussing on Skill Development / Employability / Entrepreneurship, the percentage of revision are mentioned below.

New Courses introduced

S. No.	Title of the Course	Course Code
1	Chemistry of Corrosion	21PECH11C
2	Material Chemistry	21PECH21B
3	Forensic Chemistry	21PECH21C
4	Research Methodology	21PCCH33
5	Chemistry of Milk	21PECH31B
6	Agricultural Chemistry	21PECH31C
7	Food Chemistry	21PECH41B
8	Polymer Science	21PECH41C

Courses focused on Skill Development / Employability / Entrepreneurship

S. No.	Title of the Course	Course Code	Category
1.	Photochemistry	21PECH11A	Employability
2.	Medicinal Chemistry	21PECH11B	Entrepreneurship
3.	Chemistry of Corrosion	21PECH11C	Employability
4.	Inorganic Chemistry Practical- I	21PCCH1P1	Skill Development
5.	Physical Chemistry Practical-I	21PCCH1P2	Skill Development
6.	Material Chemistry	21PECH21B	Employability
7.	Forensic Chemistry	21PECH21C	Employability
8.	Organic Chemistry Practical- I	21PCCH2P1	Skill Development
9.	Analytical Chemistry Practical	21PCCH2P2	Skill Development
10.	Research Methodology	21PCCH33	Skill Development
11.	Spectroscopy	21PECH31A	Skill Development
12.	Chemistry of Milk	21PECH31B	Skill Development
13.	Agricultural Chemistry	21PECH31C	Entrepreneurship
14.	Organic Chemistry Practical- II	21PCCH3P1	Skill Development
15.	Physical Chemistry Practical- II	21PCCH3P2	Skill Development





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16.	Project	21PPCH41	Skill Development
17.	Advanced Topics in Chemistry	21PECH41A	Employability
18.	Food Chemistry	21PECH41B	Employability
19.	Polymer Science	21PECH41C	Entrepreneurship
20.	Inorganic Chemistry Practical- II	21PCCH4P1	Skill Development
21.	Green and Nano Chemistry Practical	21PCCH4P2	Skill Development
22.	Analytical Biochemistry	21PICH11	Skill Development
23.	Industrial Chemistry	21PICH31	Entrepreneurship

Percentage of Revision

S. No.	Courses	Course Code	Percentage %
1.	Inorganic Chemistry I	21PCCH11	28%
2	Organic Chemistry I	21PCCH12	57%
3.	Physical Chemistry I	21PCCH13	34%
4.	Photochemistry	21PECH11A	45%
5	Medicinal Chemistry	21PECH11B	60%
6	Chemistry of Corrosion	21PECH11C	100%
7	Inorganic Chemistry Practical-I	21PCCH1P1	25%
8	Physical Chemistry Practical-I	21PCCH1P2	25%
9	Inorganic Chemistry II	21PCCH21	15%
10	Organic Chemistry II	21PCCH22	50%
11	Physical Chemistry II	21PCCH23	23%
12	Analytical Chemistry	21PECH21A	23%
13	Material Chemistry	21PECH21B	100%
14	Forensic Chemistry	21PECH21C	100%
15	Organic Chemistry Practical I	21PCCH2P1	50%
16	Analytical Chemistry Practical	21PCCH2P2	50%
17	Organic Chemistry III	21PCCH31	37%
18	Physical Chemistry III	21PCCH32	20%
19.	Research Methodology	21PCCH33	100%
20.	Spectroscopy	21PECH31A	60%
21.	Chemistry of Milk	21PECH31B	100%
22	Agricultural Chemistry	21PECH31C	100%
23	Organic Chemistry Practical-II	21PCCH3P1	40%
24	Physical Chemistry Practical II	21PCCH3P2	10%
25	Inorganic Chemistry III	21PCCH41	43%
26	Advanced Organic Chemistry	21PCCH42	65%





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27.	Advanced Topics in Chemistry	21PECH41A	62%
28.	Food Chemistry	21PECH41B	100%
29.	Polymer Science	21PECH41C	100%
30.	Inorganic Chemistry Practical II	21PCCH4P1	10%
31.	Green and Nano Chemistry Practical	21PCCH4P2	60%
32.	Analytical Biochemistry	21PICH11	60%
33.	Industrial Chemistry	21PICH31	75%

Total Percentage of Revision: 53.74%

Total number of Courses: 34


PRINCIPAL



Board Study Meeting (17/5/2023)

Afternoon 2.45 PM

The following staff members
the Board of Studies meeting held on
17/5/2023 at 2.45 PM through Online mode (gmeet
(<https://meet.google.com/bra-pdprk-phc>) at
department of Chemistry (PGI), Sadakathullah Appa College

- 1) Dr. A. Syed Mohamed (PGI) ^{Present}
UGI, HOD (Offline - SAC, CHEM DEPT)
- 2) Dr. P. Antony Danish (CHEM DEPT, SAC)
(UGI)
- 3) Dr. B.A. Sabitha (UGI) (CHEM DEPT, SAC)
- 4) Dr. S. Billiana Renu (CHEM DEPT, SAC) ^{PH}
(PGI & HOD) 17/5/2023
- 5) Dr. P. Anwar Kasim (CHEM DEPT, SAC) ^{PH}
(PGI) 17/5/2023
- 6) Dr. M. Shahana Fatima (CHEM DEPT, SAC) ^{PH}
(PGI) Shahana 17/5/23

1) Subject Expert - I
Dr. N. M. P. Alhaji

2) Subject Expert - II
Dr. M. A. Mohamed Mustafa

3) Alumni Mentor
Dr. M. Syed Ali Prabhakaran (Online mode)

4) Industrialist
Ms. Joseph Prabhakaran (Online mode)



Online
Screenshot -
BOS Meeting

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17/6/2023
(Poi-HOD)
CHAIRMAN / CHAIRPERSON

[Signature]
DEAN OF SCIENCES

[Signature]
PRINCIPAL

University Nominee
E. Dr. K. Swamalatha

Resolutions:-

- (i) Resolved to follow Soft Skill I, II, III + IV based on TANSCHF syllabus
- (ii) Resolved to change the title of "Inorganic Complex analyses practical" as "Inorganic chemistry practical - II"
- (iii) Resolved to include retrosynthetic analysis in organic chemistry.
- (iv) Resolved to approve 10 core courses, 6-core practicals courses, 5 elective courses, 4 skill enhancement courses + 4 soft skill courses.
- (v) Soft Skill courses are yet to be decided.

16.03.2021

Minutes of the Board of studies meeting for PG³⁷ Physics course held on 16-03-2021 at 10.30 a.m. in the Auditorium.

Sadakathullah Appa College - Timunelveli

Members present:

1. Dr. S.H. Mohamed Ameen

2. Dr. K. Mohanraj — University Nominee

3. Dr. K. Murali — Subject Expert

4. Mrs. M. Irfana Amrin — Alumni

5. Dr. S.M. Abdul kader

6. Mrs. A. Zeenath Bazeera

7. Dr. V. Chinnathambi

8. Mrs. A. Ferin Fathima —

9. Dr. K. Amutha

10. Dr. T. Santa Jostar

The members of the board completely analyzed the new syllabus, ~~2021~~ which is to be followed from 2021 onwards.

They have approved DSC, DSE, DSCP, IDC and Project

A) Discipline Specific Core (DSC - 11 papers)

1. Mathematical Physics - I
2. Classical Mechanics
3. Thermodynamics and Statistical Mechanics.
4. Mathematical Physics - II
5. Quantum Mechanics - I
6. Atomic and Molecular Spectroscopy.
7. Electromagnetic Theory.
8. Quantum Mechanics - II
9. Research Methodology.
10. Advanced Solid State Physics.
11. Nuclear and Elementary Particle Physics.

B) Discipline Specific Elective (DSE - 4 Papers)

1. Advanced: Electronics - ~~.....~~ / Python Programming / Radiological Safety Aspects.
2. Advanced Microprocessor and Microcontroller / Material Physics and Processing Techniques / Plasma Physics ~~.....~~

3. Non-Linear Physics / Physics of Nanomaterials / Density Functional Theory.

4. Applied Optics and Laser Physics / Elementary Numerical Analysis / Quantum Field Theory.

c) Project

D) Interdisciplinary Courses (2 Papers)

1. Basics of Digital Electronics.

2. Energy Physics.

E) Discipline Specific Core Practical (DSCP - 8 papers)

1. General Physics Practicals I

2. Advanced Electronics Practicals - I

3. General Physics Practicals II

4. Advanced Electronics Practicals - II

5. Advanced Physics Practicals - I

6. Microprocessor and Microcontroller - Practicals

7. Advanced Physics Practicals - II

8. Numerical Methods and C++ Programming in Physics.

F) NPTEL - Online Course.

Resolutions:

The board has approved the PG Physics syllabus of 2021-24 and it is resolved to ~~follow~~ introduce the new courses and revise the syllabus (as mentioned in the Annexure) and to follow

1. Uniformity in the syllabus structure.
2. Text Book to Reference Book ratio must be 5:3
3. Include standard template for thesis/dissertation.
4. Include review I and review II for internal marks of project viva voce
5. Text Book and Reference Book format should be, Author name with initial, "Title of the book", Publisher name, Publishing place, (year), Edition. (mention the section in which the particular unit is present).
6. Include the following reference books for the paper
Microprocessor and Micro controllers.
 - i) Digital Principles and Applications by Malvino and Leach.
 - ii) Art of Electronics by Horowitz and Hinn.
 - iii) Electronic Devices by Thomas Floyd.
7. Change the title of the Paper Molecular Spectroscopy into Atomic and Molecular Spectroscopy.

Suggestions:

The PG board has recommended the following suggestions

1. Expand the topics in unit V of Materials Physics and Processing Techniques Paper.
2. Topics related to Quantum devices may be included in Quantum Mechanics - II and Photonic crystals may be included in EMT Paper
3. Classical Mechanics Paper can be changed into classical dynamics and some corrections may be done in unit V

Board of Studies Meeting for PG Physics was held on 16.03.2021 at 10:30 a.m in the Auditorium

Sadakathullah Appa College –Tirunelveli

Members Present:

1. Dr. S.H. Mohamed Ameen
2. Dr.K.Mohanraj
Assistant Professor
M.S University - University Nominee
3. Dr. K. Murali
Professor - Subject Expert
Anna University
4. Mrs. M. Irfana Amrin - Alumini
5. Dr. S.M.Abdul Kader
6. Mrs.A. Zeenath Bazeera
7. Dr. V. Chinnathambi
8. Mrs. A. Ferin Fathima
9. Dr.K. Amutha
10. Dr. Sainth Jostar. T

The members of the board completely analysed the new syllabus, which is to be followed from 2021 onwards. They have approved DSC, DSE, DSCP, IDC and Project.

(A) Discipline Specific Core (DSC-11 Papers)

1. Mathematical Physics-I
2. Classical Mechanics
3. Thermodynamics and Statistical Mechanics
4. Mathematical Physics-II
5. Quantum Mechanics-I
6. Atomic and Molecular Spectroscopy
7. Electromagnetic Theory
8. Quantum Mechanics-II
9. Research Methodology
10. Advanced Solid State Physics
11. Nuclear and Elementary Particle Physics

(B) Discipline Specific Elective (DSE- 04 Papers)

1. Advanced Electronics / Python Programming/ Radiological Safety Aspects
2. Advanced Microprocessor and Microcontroller / Material Physics and Processing Techniques / Plasma Physics.
3. Non-Linear Physics / Physics of Nanomaterials / Density Functional Theory.
4. Applied Optics and Laser Physics / Elementary Numerical Analysis / Quantum Field Theory.

(C) Project

(D) Interdisciplinary Courses (2 Papers)


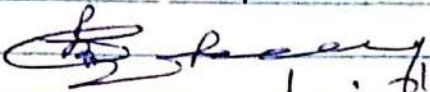
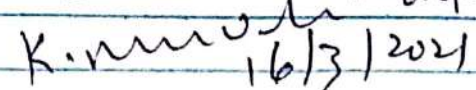
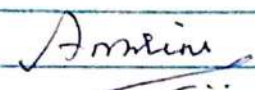
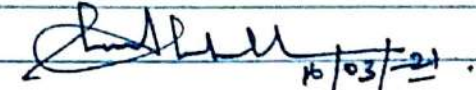


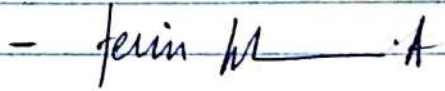


1. Basics of Digital Electronics
2. Energy Physics

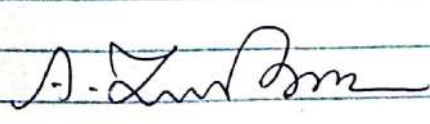
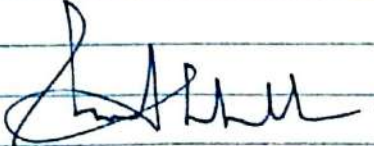
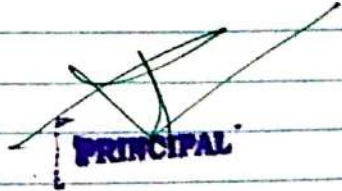
(E) Discipline Specific Core Practical (DSCP-8 Papers)

1. General Physics Practicals –I
2. Advanced Electronics Practicals -I
3. General Physics Practicals –II
4. Advanced Electronics Practicals -II
5. Advanced Physics Practicals –I
6. Microprocessor and Microcontroller – Practicals
7. Advanced Physics Practicals –II
8. Numerical Methods and C++ Programming in Physics

(F) NPTEL – Online Course

Signature of members present

1. Dr. S.H. Mohamed Ameen -  16-3-2024
2. Dr. K. Mohanraj -  16/03/2024
3. Dr. K. Murali -  16/3/2024
4. Mrs. M. Irfana Amrin - 
5. Dr. S.M. Abdul Kader -  16/03/24
6. Mrs. A. Zeenath Bazeera - 
7. Dr. V. Chinnathambi - 
8. Mrs. A. Ferin Fathima - 
9. Dr. K. Amutha - 
10. Dr. T. Santa Jaster - 

CHAIRMAN / CHAIRPERSON

DEAN OF SCIENCES

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Annexure - I

Department of Physics (PG)

The Board of Studies of Department of Physics (PG) was held on 16.3.2021 for the approval of 2021-2024 syllabus. The number of new courses, courses focussing on Skill Development / Employability / Entrepreneurship, the percentage of revision are mentioned below.

New Courses introduced

S. No.	Title of the Course	Course Code
1.	Python Programming	21PEPH11B
2.	Radiological safety aspects	21PEPH11C
3.	Material Physics and Processing techniques	21PEPH21B
4.	Plasma Physics	21PEPH21C
5.	Density Functional Theory	21PEPH31C
6.	Quantum Field Theory	21PEPH41C

Courses focused on Skill Development / Employability / Entrepreneurship

S. No.	Title of the Course	Course Code	Category
1.	General Physics Practicals – I	21PCPH1P1	Skill Development
2.	Advanced Electronics Practicals – I	21PCPH1P2	Skill Development
3.	General Physics Practicals – II	21PCPH2P1	Skill Development
4.	Advanced Electronics Practicals – II	21PCPH2P2	Skill Development
5.	Research Methodology	21PCPH33	Skill Development
6.	Advanced Physics Practicals – I	21PCPH3P1	Skill Development
7.	Microprocessor and Microcontroller Practicals	21PCPH3P2	Skill Development
8.	Project	21PPPH41	Skill Development
9.	Advanced Physics Practicals – II	21PCPH4P1	Skill Development
10.	Numerical methods and C++ Programming	21PCPH4P2	Skill Development
11.	Advanced Electronics	21PEPH11A	Employability
12.	Python Programming	21PEPH11B	Employability
13.	Advanced Microprocessor and Microcontrollers	21PEPH21A	Employability
14.	Energy Physics	21PIPH31	Entrepreneurship





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Percentage of Revision

S.No.	Courses	Course Code	Percentage %
1.	Mathematical Physics - I	21PCPH11	10%
2.	Classical mechanics	21PCPH12	10%
3.	Thermodynamics and Statistical Mechanics	21PCPH13	34%
4.	Advanced Electronics	21PEPH11A	64%
5.	Python Programming	21PEPH11B	100%
6.	Radiological safety aspects	21PEPH11C	100%
7.	General Physics Practicals – I	21PCPH1P1	8%
8.	Advanced Electronics Practicals - I	21PCPH1P2	32%
9.	Basics of digital Electronics	21PIPH11	20%
10.	Mathematical Physics - II	21PCPH21	26%
11.	Quantum Mechanics - I	21PCPH22	8%
12.	Atomic and molecular spectroscopy	21PCPH23	50%
13.	Advanced microprocessor and microcontroller	21PEPH21A	2%
14.	Material Physics and Processing techniques	21PEPH21B	80%
15.	Plasma Physics	21PEPH21C	100%
16.	General Physics Practicals – II	21PCPH2P1	16%
17.	Advanced Electronics Practicals - II	21PCPH2P2	32%
18.	Quantum Mechanics - II	21PCPH32	20%
19.	Research methodology	21PCPH33	24%
20.	Non-Linear Physics	21PEPH31A	22%
21.	Physics of nanomaterials	21PEPH31B	88%
22.	Density Functional Theory	21PEPH31C	100%
23.	Advanced Physics Practicals – I	21PCPH3P1	28%
24.	Microprocessor and Microcontroller Practicals	21PCPH3P2	35%
25.	Energy Physics	21PIPH31	12%
26.	Advanced Solid state Physics	21PCPH41	2%
27.	Nuclear and Elementary particle Physics	21PCPH42	22%
28.	Applied optics and Laser Physics	21PEPH41A	50%





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29.	Elementary numerical analysis	21PEPH41B	96%
30.	Quantum field theory	21PEPH41C	100%
31.	Advanced Physics Practicals – II	21PCPH4P1	14%
32.	Numerical methods and C++ Programming in Physics	21PCPH4P2	21%

Total Percentage of Revision: 39%

Total number of Courses: 34

PRINCIPAL



17.05.2023

Minutes of the Board of Studies meeting for PG³ Physics Programme held on 17.05.2023 at 2.30 P.M in the Department of Physics Sadakathullah Appa College - Tirunelveli

Members present :

1. Dr. Sabarinathan Venkatachalam - University Nominee
2. Dr. B. Bindu - Subject Expert
3. Dr. A. Zeenath Bazeera
4. Dr. V. Chinnathambi
5. Dr. Santa Jostar. T

The members of the board completely analyzed the new syllabus (as per TANSØHE) which is to be followed from 2023 onwards. They have approved DSC, EC(DSE), SEC, AECC, Internship and Project.

A) Core Courses:

1. Mathematical Physics
2. Classical Mechanics and Relativity
3. Linear and Digital ICs and Applications
4. Statistical Mechanics
5. Quantum Mechanics - I
6. Quantum Mechanics - II
7. Condensed Matter Physics
8. Electromagnetic Theory
9. Nuclear and Particle Physics
10. Spectroscopy
11. Project

A) Elective Courses:

1. Material Science / Numerical Methods & Computer Programming
2. Advanced Mathematical Physics / Bio Physics
3. Microprocessor 8085 and Micro controller 8051 / Solid waste Management
4. Non Linear Dynamics / Communication Electronics

A) Generic Elective - Energy Physics

- #### B) SEC - Skill Enhancement Course
1. Electronics Practical - I
 2. Electronics Practical - II

3. NPTEL Course - Professional Communication skill ⁴⁵
4. Training for Competitive Examinations

B. Ability Enhancement Compulsory Courses:

1. Soft Skills I - LATEX
2. Framework for Physics Innovation and Entrepreneurship Education
3. Bio Medical Instrumentation
4. Solar Energy and Utilization

A. Core Practicals:

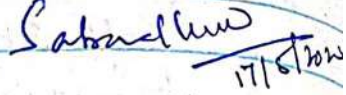

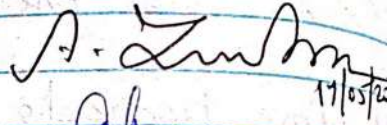
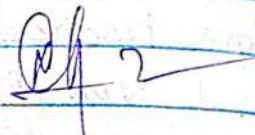
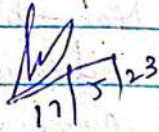
1. Non-Electronics - I
2. Non-Electronics - II
3. Advanced Physics Practical - I
4. Core Industry module - Microprocessor and Microcontroller Practicals
5. Advanced Physics Practical - II
6. Numerical Methods and Programming C++.

Resolutions

The board has approved the PG syllabus of 2023-2026 and it is resolved to introduce the soft skill courses and revise the syllabus (as mentioned in the Annexure and TANSICHE syllabus) and to follow

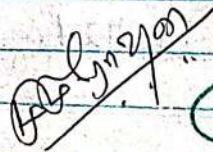
1. Uniformity in the syllabus structure
2. Delete Unit VI in all the courses.
3. Text book and Reference Book format should be modified. - New Edition to be included.
4. For Internship minimum period to be mentioned.

Signature of members present :

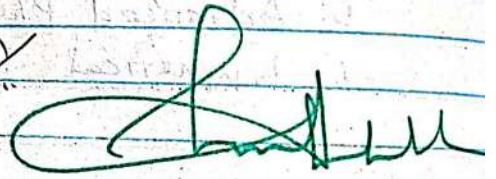
- 1. Dr. Sabarinathan Venkatachalam  17/5/23
- 2. Dr. B. Bindu  17/5/23
- 3. Dr. A. Zeenath Bazeera  17/5/23
- 4. Dr. V. Chinnatharubi 
- 5. Dr. Sainba Jostar. T  17/5/23



CHAIRMAN / CHAIRPERSON

 17/5/23

DEAN OF SCIENCES



PRINCIPAL