

23-01-2013

Minutes of the B.Sc and M.Sc Physics Board of Studies meeting held on 23-01-2013 at 2.00 pm.

Members Present

Subject Expert: Prof. P. RAJAGURU, Head,
Department of Physics, ANJA College, Sivakasi

Industrial/ Corporate Sector: M.Y.T.M.M.R. GANESAN, Virulhunerav

- Members:
1. Mr. S. Raja Singh
 2. Dr. L. Amalraj
 3. Dr. N. Prithivikumeran
 4. Mr. D.N. Suresh
 5. Dr. R. Shunmugavel
 6. Dr. N. Jeyakumeran
 7. Dr. P. Srinamachandran
 8. Mrs. V. Lakshmi Priya
 9. Dr. S. Prakash
 10. Mrs. N. Sumanjeledevi
 11. Mrs. R. Mahalakshmi
 12. Mrs. A. Alagulakshmi
 13. Mrs. R. Hemalatha

Resolutions:

- 1) The detailed Draft syllabus for the II year UG and P.G Courses were discussed and approved.
- 2) The detailed Draft syllabus for the Certificate, Diploma and Advanced diploma course in Renewable energy (Carrier Oriented Programme) were discussed and approved.
- 3) The question pattern for Skill based subjects was discussed and approved.
- 4) The Panel of examiners was prepared.

1. P. Rajaguru

2. L. AMALRAJ

P. Rajaguru - 23/1/13
L. Amalraj

3. N. JEYA KUMARAN.

N. Jeyak

4. S. PRAKASH

S. Prakash

5. D. N. SURESH

D. N. Suresh

6. P. Sri Ramachandran

P. S. Ramachandran

7. R. Shanmugavel

R. Shanmugavel

8. V. Lakshmi Priya

V. Lakshmi Priya

9. N. SUMANGALA DEVI

N. Sumangala Devi

10. R. MAHALAKSHMI

R. Mahalakshmi

11. A. ALAGULAKSHMI

A. Alagulakshmi

12. R. HEMALATHA

R. Hemalatha

13. N. PRITHIVIKUMARAN

N. Prithivikumar

14. S. RAJA SINGH

S. Rajasinh

Minutes of the meeting

Minutes of the B.Sc and M.Sc Physics

Board of Studies meeting held on 07.12.2013 at 11.00 am

Members presentSubject Expert: Prof. P. RAJAGURU, Head
Department of Physics, ANJA College, SivakasiAlumni: Dr. S. Pandiarajan, Associate Professor,
D.A. College, AmpakkottaiIndustrial/Corporate: Mr. T.M.M.R. Ganaseen, VimalanagarMembers: Chairman: Dr. S. Rajasinth

1. Dr. L. Amalraj
2. Dr. N. Prithvikumaran
3. Mr. D.N. Suresh - O.C.L.
4. Dr. R. Shunmugavel
5. Dr. N. Jeyakumaran
6. Dr. P. Sivaramachandran
7. Mrs. V. Lakshmi Praga
8. Dr. S. Prakash
9. Mrs. N. Sumangaladevi
10. Dr. R. Jeyasekaran
11. Dr. S. Vivekanandan
12. Mrs. A. Alagalakshmi

Resolutions:

1) The detailed draft syllabus for III BSc course was discussed and approved.

2) Minor changes in the PG papers 1) Energy Physics and Environmental studies (Code: PIPHN22) - Units I, II, III & IV and 2) Nuclear and Particle Physics (Code: PIPHC31) - Unit I are discussed and approved.

3) The ^{changes in} titles of the subject for the III year UG Courses were discussed and approved.

1. Paper code: U1PHNS1 Title: Basic Physics I
2. Paper code: U1PHNS2 Title: Basic Physics II

4) The Panel of examiners for III BSc was prepared.

Dr. P. RAJAGURU -

P. Rajasinth
7/12/13

- | | |
|---------------------------|---------------------------|
| 3. T. M. M. R. R. GANESAN | <u>R. R. R.</u> 7-12-2013 |
| 4. L. AMALRAJ | L. Amalraj 7.12.13 |
| 5. R. SHANMUGARAJ | R. Shanmugaj 07.12.13 |
| 6. N. PRITHVIKUMARAN | N. Prithvi 07.12.13 |
| 7. P. SRIRAMAGHANDRAN | P. Srinivas 07.12.13 |
| 8. V. LAKSHMI PRIYA | V. Lakshmi 7.12.13 |
| 9. S. PRAKASH | S. Prakash 7/12/13 |
| 10. S. VIVEKANANDHAN | S. Vivekanandan 7/12/13 |
| 11. R. JEYASEKARAN | R. Jayasekaran 07/12/13 |
| 12. A. BALAGU LAKSHMI | A. Balagulasi 7/12/13 |
| 13. N. SUMANGALA DEVI | N. Sumangala Devi 7/12/13 |
| 14. P. RAJA BINGUN | P. Rajabingun 7/12/13 |
| 15. N. JEYAKUMARAN | N. Jayakumar 9/12/2013 |

Minutes of the meeting

Minutes of the B.Sc and M.Sc Physics Board of studies meeting held on 28.03.2015 at 10.00

Members present

- University nominee - Dr. N. Soundavarajan,
Chairperson, School of Physics
Madurai Kamaraj University, Madurai
- Subject experts - Dr. A.K. Balasubramanian
Associate Professor in Physics
Sourashtra College (Autonomous), Madurai
- Alumnus - Dr. K. Pandiarajan
Associate Professor of Physics
Devanga Arts College (Autonomous),
Anppukottai
- Industrialist - Mr. M.A.P.R. Palanichamy
Industrialist, Vimalapuram.

Members: Chairmen: Dr. S. Rajendran

1. Dr. L. Amalraj
2. Dr. N. Pithivikumar
3. Mr. D.N. Suresh
4. Dr. R. Shanmugavel
5. Dr. N. Jeyakumar
6. Dr. P. Sivamachandran
7. Mrs. V. Lakshmi Priya
8. Dr. S. Prakash
9. Mrs. N. Sumangala Devi
10. Dr. R. Jeyasekaran
11. Dr. S. Vivekanandan
12. Mrs. A. Alagulkumari
13. Mr. J. Pandiarajan.

Resolutions:

- 1) The titles of the papers for the entire course of the B.Sc & M.Sc ~~M.Phil~~ are approved.
- 2) The draft syllabi for I year B.Sc and M.Sc Physics course are discussed and approved.

3) Minor Changes in the Paper Biophysics (Code VIPHC63) has been approved.

4) The board suggested to include NME paper in II year UG instead of III year UG.

1. Dr. N. Soundararajan
2. Dr. A.K. Balakrishnan
3. Dr. S. Pandiarajan
4. Mr. M.A.P.R. Palanichamy
5. Dr. S. Rajalingh
6. Dr. L. Amelraj
7. Dr. N. Prithvikumar
8. Mr. D.N. Suresh
9. Dr. R. Shanmugasel
10. Dr. N. Tejakumar
11. Dr. P. SrinivasaChandran
12. Mrs. V. Lakshmi Priya
13. Dr. S. Prakash
14. Mrs. N. Sumangaladevi
15. Dr. R. Tejakumar
16. Dr. S. Vivekanandan
17. Mrs. A. Anandakumari
18. Mr. J. Pandiarajan

Board

Chairman

S. Padin

@Hofuy

g. Prasad

L. Anand

N. Prithvi

D.V.S. Ch

S. N. S.

N. Jayaram

S. N. S.

V. Lalitha

S. N. S.

N. Prasad

R. S. S.

S. N. S.

Chidambaram

J. Prasad

Minutes of The meeting

PHCG3)

The board of Studies (B.Sc & M.Sc Physics) meeting was held in the Department of Physics on 20.02.2016 at 10 am.

Members Present

- University nominee - Dr. N. Sundarajan
Chairperson, School of Physics
Madurai Kamaraj University, Madurai
- Subject experts - 1. Dr. A.K. Balasubramanian
Associate Professor, Department of Physics
Sourashtra College (Autonomous), Madurai
2. Dr. R. Srinivasan
Associate Professor in Physics
Thiagarajar College (Autonomous), Madurai

Members: Chairmen: Dr. S. Rajasinh

1. Dr. L. Amalraj
2. Dr. N. Prithvikumaran
3. Dr. D.N. Suresh
4. Dr. N. Jeyakumaran
5. Dr. P. Sivaramachandran
6. Mrs. V. Lakshmi Pride
7. Dr. S. Prakash
8. Mrs. N. Sumanlaladevi
9. Dr. R. Jeyalakshari
10. Dr. S. Vivekanandhan
11. Mrs. A. Alamelakshmi
12. Mr. J. Pandiyan
13. Mr. B. Lawrence.

Resolutions:

1. In Semester III the title of the Major elective Paper "Fiber optic Communication and Laser" is now changed as "Fiber Optic Communication".
2. Papers entitled "Applied Optics" and

10
"Bio Physics" are included as Major elective papers in Semester III and Semester IV respectively, for MSc Physics

3. The draft syllabi for II BSc (Physics) and II MSc (Physics) are discussed and approved.

1. Dr. N. Soundarajan	<u>M. Gowda</u>
2. Dr. A.K. Balasubramanian	<u>Santhosh</u>
3. Dr. R. Srinivasan	<u>R. S. M.</u>
4. Dr. L. Amalraj	<u>L. Anandhuj</u>
5. Dr. N. Prithvikumar	<u>N. D. H. V.</u>
6. Dr. D.N. Shresh	<u>D.N. S.</u>
7. Dr. N. Jegadevan	<u>N. Jegadevan</u>
8. Dr. P. Sivaraman	<u>P. Sivaraman</u>
9. Mrs. V. Lakshmi Priya	<u>Lakshmi</u>
10. Dr. S. Prakash	<u>S. Prakash</u>
11. Mrs. N. Sumanalakshmi	<u>N. Sumanalakshmi</u>
12. Dr. R. Jegadevan	<u>R. Jegadevan</u>
13. Dr. S. Vivekanandan	<u>S. Vivekanandan</u>
14. Mrs. A. Alagulkumari	<u>A. Alagulkumari</u>
15. Mr. J. Pandiaraj	<u>J. Pandiaraj</u>
16. Mr. B. Lawrence	<u>B. Lawrence</u>
17. S. RAJA SINGH	<u>S. Rajasinh</u>

07-03-2017

Minutes of the meeting

The board of studies (BSc Physics) meeting was held in the Department of Physics on 07.03.2017 at 2 p.m.

Members Present

Chairmen: Dr. S. Rajalingh

Subject expert: Dr. V. Raja, Assistant Professor
Government Arts College, Melur.

Alumnus: Ms. R. Anitha, Assistant Professor
SRNM College, Sathur

Members:

1. Dr. N. Prithivikumaran
2. Dr. R. Shanmugavel
3. Mr. D. N. Suresh
4. Dr. N. Jeyakumaran
5. Dr. P. Sriyamachandran
6. Dr. V. Lakshminidhi
7. Dr. S. Prekash
8. Dr. R. Jeyalekaran
9. Dr. S. Vivekananthan
10. Mrs. A. Alamelummi
11. Dr. J. Pandiarajan
12. Mr. B. Lawrence
13. Ms. P. Umadevi

Resolutions:

1. Instead of Electronics II Practical 'Project and Area Study' has been included.
2. Instead of Core Paper 10 - 'Bio Physics', 'Programming in C' has been included.
3. Instead of skill based paper 'Astro Physics', 'Bio-medical instrumentation' has been included.

- | | |
|--------------------------|-------------------|
| 1. Dr. S. Rajalingh | S. Rajalingh |
| 2. Dr. V. Raja | V. Raja |
| 3. Ms. R. Anitha | R. Anitha |
| 4. Dr. N. Pritivikumaran | N. Pritivik |
| 5. Mr. D.N. Suresh | D.N. Suresh |
| 6. Dr. R. Shunmugavel | R. Shunmugavel |
| 7. Dr. N. Jeyakumaran | N. Jeyakumaran |
| 8. Dr. P. Sivamechender | P. Sivamechender |
| 9. Dr. V. Lakshmi Prasad | V. Lakshmi Prasad |
| 10. Dr. S. Prekash | S. Prekash |
| 11. Dr. R. Jeyakumaran | R. Jeyakumaran |
| 12. Dr. S. Vivekanandan | S. Vivekanandan |
| 13. Ms. A. Alamelakshmi | A. Alamelakshmi |
| 14. Dr. J. Pandiarajen | J. Pandiarajen |
| 15. Mr. B. Lawrence | B. Lawrence |
| 16. Ms. P. Umadevi | P. Umadevi |

M.Phil

VHNSW college (Autonomous)
Department of Physics

28.03.2015

M.Phil Board Meeting.

The Board of studies meeting of M.Phil (Physics) was held in the Department of Physics on 28.03.2015 at 10.30 AM. 10.30 AM.

The following matters were discussed and finalised.

1. The Title of the Papers were discussed and finalised.
2. The Draft syllabus for M.Phil Physics course were discussed and approved.

Members Present:

- | | |
|-------------------------------|----------------|
| 1. Dr. N. Soundarajan | <i>Mouru</i> |
| 2. Dr. A. K. Bala Subramanian | <i>anandak</i> |
| 3. Dr. S. Pandiarajan | S. Pandiyan |
| 4. Mr. M. A. P. Palanichamy | <i>abhiby</i> |
| 5. Dr. S. Raja Singh | S. Rajasingh |
| 6. Dr. L. Amalraj | L. Amalraj |
| 7. Dr. N. Prithvikumaran | N. Prithvi |
| 8. Dr. N. Jeyakumaran | N. Jeyalan |
| 9. Dr. S. Prakash | S. Prakash |

Minutes of the meeting

17-02-2018

The board of studies C.B.Sc., M.Sc and M.Phil Physics meeting was held in the Department of Physics on 17.2.2018 at 11:00 am.

Members Present

Chair man : Dr. N. Prithvikumaran

University Nominee : Dr. B. Ravikumar

Principal,

Devanga Arts College (Autonomous)
Druppukottai

Subject Expert : 1. Dr. L. Caroline Sugirtham

Associate Professor in Physics

Fatima College (Autonomous), Madurai

2. Dr. V. Raja

Assistant professor, Govt. Arts college, Melur.

Alumnus : Mrs. R. Anitha

Assistant professor, SRNM College (Autonomous), Sattur

Members : Dr. R. Shannugavel

Dr. N. Jeyakumaran

Dr. P. Srinamachandran

Dr. V. Lakshmi Priya

Dr. S. Prakash

Ms. N. Sumangala Devi

Dr. R. Jeyasekaran

Dr. S. Vivekanandhan

Dr. J. Pandiarajan

Ms. A. Idagulakshmi

Dr. B. Lawrence

Dr. P. Uma Devi

Dr. K. Anitha Rani

Ms. S. Saravana Selvi

Resolutions

Regarding UG (BSc Physics) Syllabus

1. The Skill based subject 1 'Properties of matter' is replaced by 'Computational physics'.
2. The Skill based subject 2 'Thermal Physics I' is replaced by 'Materials Science'.
3. In the Second Semester the two Skill based subjects SBS3 & SBS4 are replaced by a Core paper - 3 'Heat & Thermodynamics'.
4. The Core paper - 4 'Analog electronics' is replaced by 'Electrostatics & Current electricity'.
5. The Core paper - 5 'Classical & Statistical mechanics' is replaced by 'Electromagnetism'.
6. The Core paper - 6 'Digital electronics' is replaced by 'Physical optics & Spectroscopy'.
7. Instead of Core paper - 7 in Semester V two Skill based subjects SBS-3 'Electrical Wiring' and SBS-4 'Physics of Human anatomy' are introduced.
8. The paper Physical optics & Spectroscopy, is now placed as Core paper 7.
9. The Core paper 9 'Materials Science' is replaced by 'Digital electronics'.
10. The Core paper 10 'Programming in C' is replaced by Classical & Statistical mechanics.

Regarding PG (M.Sc Physics) Syllabus

11. The Core paper 2 'Electronics' is replaced by 'Electronic Circuits & Communication'.
12. The Major elective paper 'Numerical methods & Programming in C++' is replaced by 'Numerical & Statistical methods'.
13. The Core paper 6 'Thermodynamics & Statistical mechanics' is replaced by 'Quantum Mechanics - I'.
14. The Core paper 8 'Quantum mechanics I' is replaced by 'Quantum mechanics II'.

15. The P.G. Major elective practical (Computational Physics Lab) has been replaced by Major elective theory paper 'Solar energy systems and storage devices'.
16. The Core Paper II 'Quantum mechanics - II' is replaced by 'Thermodynamics & Statistical mechanics'.
17. The Board members recommended to replace PG NME Paper by Core Physics Paper.

1) Dr. B. RAVIKUMAR

2) Dr. L. Caroline Sugitham

3. Dr. V. RAJA

4. R. Anitha

5. V. LAKSHMI PRIYA

6. N. SUMANGALA DEVI

7. P. UMA DEVI

8. S. SARAVANA SELVI

9. N. JEYAKUMARAN

10. B. LAWRENCE

11. J. PANDIA RAJAN

12. K. ANITHA RAM

13. R. JAYASEKARAN

14. A. ALAGULAKSHMI

15. N. PRITHVIKUMARAN

16. P. SRIRAMACHANDRAN

17. R. SHANMUGAVEL

18. S. PRAKASH

19. Dr. S. Vivekanandham

~~Dr. B. Ravikumar~~
L. Caroline Sugitham

~~Dr. V. Raja~~
R. Anitha
V. Lakshmi Priya
N. Sumangala Devi
P. Uma Devi

S. Saravana Selvi

N. Jeyakumar

B. Lawrence

J. Pandiarajan

K. Anitha Ram

~~R. Jayasekaran~~

A. Alagulakshmi

N. Prithvikumar

P. Sriramachandran

R. Shanmugavel

S. Prakash

Dr. S. Vivekanandham

VHNSV College (Autonomous)
Vimshunagar

17-02-2018


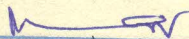
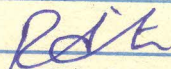

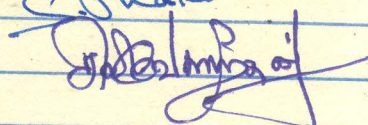
M.Phil Board of Studies meeting

The M.Phil Board of studies meeting for Physics was held in the Department of Physics at 11 AM.

Resolutions:

1) The paper entitled "Sustainable Carbon materials" is introduced as one of the elective papers.

Members Present

- | | |
|-------------------------------|---|
| 1) Dr. B. RAVIKUMAR - |  |
| 2) Dr. L. CAROLINE SWIRTHAM - | L. Caroline Swirtham |
| 3) Dr. V. RAJA - |  |
| 4) Mrs. R. ANITHA - |  |
| 5) Dr. N. PRITHIVIKUMARAN - | N. Prithi |
| 6) Dr. N. JEYAKUMARAN - |  |
| 7) Dr. S. PRAKASH - | S. Prakash |
| 8) Dr. S. VIVEKANANDHAN - |  |

**BOARD OF STUDIES MEETING OF B.Sc. AND M.Sc. PROGRAMME
HELD ON 23.02.2019**

MINUTES OF THE MEETING

The Board of Studies Meeting of B.Sc. and M.Sc. Programme was held today at 11.05 a.m. in the Department of Physics.

Members Present

University Nominee : Dr. B. Ravikumar
Associate Professor of Physics
Devanga Arts College (Autonomous),
Aruppukottai.

Subject Expert : Dr. V. Raja
Assistant Professor of Physics
Government Arts College,
Melur.

Chairman : Dr. N. Prithivikumaran
Members : Dr. R. Shanmugavel
Dr. N. Jeyakumaran
Dr. P. Sriramachandran
Dr. V. Lakshmipriya
Mrs. N. Sumangala Devi
Dr. R. Jeyasekaran
Dr. S. Vivekanandhan
Dr. J. Pandiarajan
Dr. P. Uma Devi
Mrs. A. Alagulakshmi
Dr. B. Lawrence
Ms. S. Saravana Selvi
Mrs. A. Mathivathani

After having a detailed discussion, the Board resolved the following:

For UG Programme – B.Sc. Physics

1. Resolved to move ELECTROSTATICS AND CURRENT ELECTRICITY to the III semester and ELECTROMAGNETISM to the IV semester.
2. Resolved to include/delete few topics in ELECTROSTATICS AND CURRENT ELECTRICITY leading to 10 % change in the existing syllabus of the course.
3. Resolved to include/delete few topics in ELECTROMAGNETISM leading to 20 % change in the existing syllabus of the course.
4. Resolved to include/delete few experiments in GENERAL PHYSICS LAB II leading to 18 % change in the existing syllabus of the course.
5. The title of the courses for V and VI semesters are finalized.

For UG Programme – B.Sc. Allied Physics






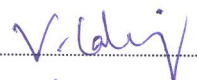
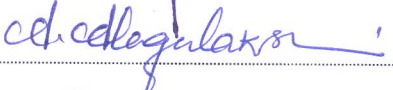

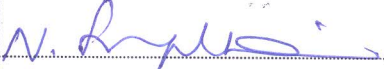

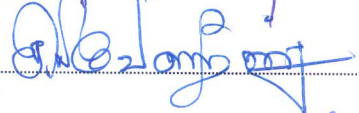





6. Resolved to include/delete few topics in ELECTRICITY & ELECTRONICS leading to 10 % change in the existing syllabus of the course.
7. Resolved to include/delete few topics in OPTICS, SPECTROSCOPY & MODERN PHYSICS leading to 12 % change in the existing syllabus of the course.
8. Resolved to include/delete one experiment in ALLIED: PHYSICS PRACTICAL – II leading to 8 % change in the existing syllabus of the course.

For PG Programme – M.Sc. Physics

9. Resolved to move QUANTUM MECHANICS-II to the III semester and THERMODYNAMICS AND STATISTICAL MECHANICS to the IV semester.
10. Resolved to delete few topics in QUANTUM MECHANICS-II leading to 2 % change in the existing syllabus of the course.
11. Resolved to fix the ratio between internal and external marks as 50: 50 for M.Sc. second year project work.
12. Resolved to change the ratio between internal and external marks from 25: 75 to 40:60.
13. Resolved to introduce Internship for PG Programmes at the end of II Semester as an extra-credit course.

For Value Added Course

14. Resolved to introduce value added course CERTIFICATE COURSE IN SOLAR ENERGY and CERTIFICATE COURSE IN MICROPROCESSOR AND ITS APPLICATIONS for the students of B.Sc. and M.Sc. Programmes with 30 contact hours.
15. Resolved to approve the panel of Examiners prepared by the members of the Board of studies.

Sl. No.	Name	Signature
1.	Dr. B. RAYI KUMAR	
2.	Dr. V. RASA	
3.	P. SHANMUGAVEL	
4.	P. SRIRAMACHANDRAN	
5.	R. Jeyasekaran	
6.	V. LAKSHMIPRIYA	
7.	A. ALAGULAKSHMI	
8.	P. UMA DEVI	
9.	N. SUMANGALA DEVI	
10.	J. PANDIA RAJAN	
11.	S. Vivekanandham	
12.	S. SARAVANA SELVI	
13.	N. JEYAKUMARAN	
14.	A. MATHI VATHANI	
15.	B. LAWRENCE	
16.	N. PRITHVIKUMARAN CHAIRMAN	



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE
(An Autonomous Institution Affiliated to Madurai Kamaraj University)
 [Re-accredited with 'A' Grade by NAAC]
 Virudhunagar – 626 001.

BOARD OF STUDIES MEETING OF B.Sc. PHYSICS HELD ON 29.02.2020
MINUTES OF THE MEETING

The Board of Studies Meeting of **B.Sc. PHYSICS** was held today at **10.30 a.m.** in the Department of Physics. After having a detailed discussion, the Board resolved the following:

1. Resolved to revise the syllabus of the course for **III B.Sc. PHYSICS** as follows:

Semester V

Subject Core / Elective / SBE / NME	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Core	Classical & Statistical Mechanics	Analog Electronics	Employability	Interchanged & Revised 20 %
Core	Digital Electronics	Physical optics & Spectroscopy	Employability	Interchanged & Revised 55 %
SBS	Physical optics & Spectroscopy	Electrical Wiring	Entrepreneurship	New
SBS	----	Physics of Human Anatomy	Skill Development	New
Core	Practical - General Physics III	Practical - General Physics III	Skill Development	Revised 7 %
Core	Practical - Electronics	Practical - Electronics	Skill Development	Revised 14 %
Core	Project & Area Study	Project & Area Study	Skill Development	No Change
NME	Basic Physics I	Basic Physics	Employability	New

Semester VI

Subject Core / Elective / SBE / NME	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Core	Atomic & Nuclear Physics	Atomic & Nuclear Physics	Employability	No Change
Core	Materials Science	Digital Electronics	Employability	Interchanged & Revised 55 %
Core	Programming in C	Classical & Statistical Mechanics	Employability	Interchanged & Revised 40 %
SBS	Bio Medical Instrumentation	Bio Medical Instrumentation	Entrepreneurship	No Change
Core	Practical - General Physics III	Practical - General Physics III	Skill Development	Revised 7 %
Core	Practical - Electronics	Practical - Electronics	Skill Development	Revised 14 %
Core	Project & Area Study	Project & Area Study	Skill Development	No Change
NME	Basic Physics II	Solar Energy	Employability	New

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

[Re-accredited with 'A' Grade by NAAC]

Virudhunagar - 626 001.

2. Resolved to fix the total marks for the Project work & Area Study as 100 marks.

The marks split up are as follows:

Project work - 50 marks (Passing Minimum 20 Marks)

Area Study - 50 marks (Passing Minimum 20 Marks).

There shall be single internal valuation only.

3. Resolved to approve the Panel of Examiners suggested by the members of the Board as given in Annexure - II.

Members Present:

Name	Category	Signature
Dr.R.Shanmugavel Associate Professor of Physics	Chairman	
Dr.K.S.Joseph Wilson Associate Professor of Physics Arul Anandar College Karumathur	University Nominee	-----
Dr.C.Rajamohan Assistant Professor of Physics Gandhigram Rural University Gandhigram	Subject Expert	 29/10/2020
Dr.R.Sudhaperiathai Assistant Professor of Physics SFR College for Women Sivakasi	Subject Expert	-----
Dr.I.Rathinamala Assistant Professor of Physics V.V.V. College for Women Virudhunagar	Alumnus	-----
Mr. M.A.P.R. Palanichamy Industrialist Virudhunaagar	Corporate Sector	-----
Dr. N. Jeyakumaran Associate Professor of Physics	Member	
Dr. P. Sriramachandran Assistant Professor of Physics	Member	
Dr. V. Lakshmi Priya Assistant Professor of Physics	Member	 29/10/2020
Dr. S. Prakash Assistant Professor of Physics	Member	



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

[Re-accredited with 'A' Grade by NAAC]

Virudhunagar – 626 001.

Mrs. N. Sumangala Devi Assistant Professor of Physics	Member	N. Sumangala Devi
Dr. R. Jeyasekaran Assistant Professor of Physics	Member	----- ON CL
Dr. S. Vivekanandhan Assistant Professor of Physics	Member	S. Vivekanandhan
Dr. J. Pandiarajan Assistant Professor of Physics	Member	J. Pandiarajan
Dr. P. Uma Devi Assistant Professor of Physics	Member	P. Uma Devi
Mrs. A. Alugulakshmi Assistant Professor of Physics	Member	A. Alugulakshmi
Dr. B. Lawrence Assistant Professor of Physics	Member	B. Lawrence
Ms. S. Saravana Selvi Assistant Professor of Physics	Member	S. Saravana Selvi
Ms. A. Mathivathani Assistant Professor of Physics	Member	A. Mathivathani



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

[Re-accredited with 'A' Grade by NAAC]

Virudhunagar – 626 001.

BOARD OF STUDIES MEETING OF **B.Sc. PHYSICS** HELD ON 28.04.2021

MINUTES OF THE MEETING

The Board of Studies Meeting of **B.Sc. PHYSICS** was held today at **11.00 a.m.** in the Department of Physics through Online Mode. After having a detailed discussion, the Board resolved the following:

LIST OF BOARD OF STUDIES MEMBERS:

1.	Dr.N. Prithivikumar Head & Associate Professor of Physics	Chairperson
2.	Dr.K.S.Joseph Wilson Associate Professor of Physics Arul Anandar College, Karumathur	University Nominee
3.	Dr.C.Rajamohan Assistant Professor of Physics Gandhigram Rural University, Gandhigram	Subject Expert
4.	Dr.R.Sudhaperiathai Assistant Professor of Physics SFR College for Women, Sivakasi	Subject Expert
5.	Dr.I.Rathinamala Assistant Professor of Physics V.V.V. College for Women, Virudhunagar	Alumnus
6.	Mr. M.A.P.R. Palanichamy Industrialist, Virudhunaagar	Industrial Representative
7.	Dr.R.Shanmugavel Associate Professor of Physics	Member
8.	Dr. N. Jeyakumar Associate Professor of Physics	Member
9.	Dr. P. Sriramachandran Associate Professor of Physics	Member
10.	Dr. V. Lakshmpriya Assistant Professor of Physics	Member
11.	Dr. S. Prakash Assistant Professor of Physics	Member
12.	Mrs. N. Sumangala Devi Assistant Professor of Physics	Member
13.	Dr. R. Jeyasekaran Assistant Professor of Physics	Member
14.	Dr. S. Vivekanandhan Assistant Professor of Physics	Member
15.	Dr. J. Pandiarajan Assistant Professor of Physics	Member
16.	Dr. P. Uma Devi Assistant Professor of Physics	Member
17.	Mrs. A. Alagulakshmi Assistant Professor of Physics	Member



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

[Re-accredited with 'A' Grade by NAAC]

Virudhunagar – 626 001.

18.	Dr. B. Lawrence Assistant Professor of Physics	Member
19.	Ms. S. Saravana Selvi Assistant Professor of Physics	Member
20.	Ms. A. Mathivathani Assistant Professor of Physics	Member

1. Resolved to or revise/modify the syllabus of the courses for **B.Sc. Physics** as follows:

Semester: I

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
SBE	Computational Physics	Solar Thermal and Photovoltaic systems	Skill Development & Entrepreneurship	New

Semester: V & VI

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Core	LAB : Core (Major) Lab 4 – Electronics	LAB : Core (Major) Lab 4 – Electronics	Skill Development	Revised 13 %

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. (Any other resolutions passed in the meeting)

Members Present:

Sl. No.	Name	Category
1.	Dr.N.Prithivikumaran Head & Associate Professor of Physics	Chairperson
2.	Dr.K.S.Joseph Wilson Associate Professor of Physics Arul Anandar College, Karumathur	University Nominee
3.	Dr.C.Rajamohan Assistant Professor of Physics Gandhigram Rural University, Gandhigram	Subject Expert



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

[Re-accredited with 'A' Grade by NAAC]

Virudhunagar – 626 001.

4.	Dr.R.Sudhaperiathai Assistant Professor of Physics SFR College for Women, Sivakasi	Subject Expert
5.	Dr.I.Rathinamala Assistant Professor of Physics V.V.V. College for Women, Virudhunagar	Alumnus
6.	Dr. N. Jeyakumaran Associate Professor of Physics	Member
7.	Dr. P. Sriramachandran Assistant Professor of Physics	Member
8.	Dr. V. Lakshmipriya Assistant Professor of Physics	Member
9.	Dr. S. Prakash Assistant Professor of Physics	Member
10.	Mrs. N. Sumangala Devi Assistant Professor of Physics	Member
11.	Dr. R. Jeyasekaran Assistant Professor of Physics	Member
12.	Dr. S. Vivekanandhan Assistant Professor of Physics	Member
13.	Dr. J. Pandiarajan Assistant Professor of Physics	Member
14.	Dr. P. Uma Devi Assistant Professor of Physics	Member
15.	Mrs. A. Alagulakshmi Assistant Professor of Physics	Member
16.	Dr. B. Lawrence Assistant Professor of Physics	Member
17.	Ms. S. Saravana Selvi Assistant Professor of Physics	Member
18.	Ms. A. Mathivathani Assistant Professor of Physics	Member



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

[Re-accredited with 'A' Grade by NAAC]

Virudhunagar – 626 001.

BOARD OF STUDIES MEETING OF B.Sc. & M.Sc. PHYSICS HELD ON 19.03.2022

MINUTES OF THE MEETING

The Board of Studies Meeting of **B.Sc. & M.Sc. PHYSICS** was held today at **11.00 a.m.** in the Department of Physics. After having a detailed discussion, the Board resolved the following:

1. Resolved to revise the syllabus of the courses for I year **B.Sc. Physics** as follows:

Semester: I

Subject	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised% of change
Core 1	Mechanics and Relativity	Mechanics and Sound	Employability	Revised 40%
Core Lab	General Physics I	General Physics I	Employability	Revised 20%

Semester: II

Subject	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised% of change
Core 2	Properties of Matter and Sound	Properties of Matter	Employability	Revised 60%
Core 3	Heat and Thermodynamics	Heat and Thermodynamics	Employability	Revised 45%
Core Lab	General Physics I	General Physics I	Employability	Revised 20%

2. Resolved to revise the syllabus of the courses for I year **M.Sc. Physics** as follows:

Semester: I

Subject	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Core 2	Electronic Circuits and Communication	Electronic Circuits and Systems	Employability	New
Core 3	Classical Mechanics	Classical Mechanics	Employability	Revised 20%
Major Elective 1	Numerical & Statistical Methods	Electronic Communication	Skill development	New
Core Lab 1	General Physics	General Physics	Skill development	Revised 12%

Semester: II

Subject	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Core 4	Mathematical Physics II	Mathematical Physics II	Employability	Revised 5%
Core 6	Quantum Mechanics I	Quantum Mechanics I	Employability	New
Major Elective 2	Solar Energy Systems and Storage Devices	Solar Energy Systems and Storage Devices	Skill development	Revised 40%
Core Lab 2	Electronics	Electronics	Skill development	Revised 12%



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

[Re-accredited with 'A' Grade by NAAC]

Virudhunagar – 626 001.

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

3. Resolved to revise the syllabus of the courses for I year **B.Sc. Allied Physics** as follows:

Semester: I

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Allied I	Mechanics, Properties of Matter and Sound	Mechanics, Properties of Matter and Sound	Skill Development	New
Allied Lab	Physics Practical I	Physics Practical I	Employability	Revised 7 %

Semester: II

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Allied I	Thermal Physics	Thermal Physics	Skill Development	New
Allied Lab	Physics Practical I	Physics Practical I	Employability	Revised 7%

4. Resolved to approve the panel of Examiners suggested by the members of the Board as given in Annexure – II.

Members Present:

Sl. No.	Name	Category	Signature
1.	Dr.N.Prithivikumaran Head & Associate Professor of Physics	Chairman	N. Prithi
2.	Dr.S.Johnson Navamani Associate Professor of Physics Pope's College (Autonomous) Sawyerpuram	Subject Expert	S. Johnson Navamani 19.3.22
3.	Dr.V.Raja Associate Professor of Physics Government Arts and Science College Melur, Madurai	Subject Expert	V. Raja 19/3/22
4.	Ms. N. Moogambiga Teacher Kshatriya Girls Higher Secondary School Virudhunagar	Alumnus	N. Moogambiga 19/3/22
5.	Mr.M.Suresh Manager – Quality Control The Ramco Cements Limited Virudhunagar	Corporate Sector	M. Suresh 19/3/22



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

[Re-accredited with 'A' Grade by NAAC]

Virudhunagar - 626 001.

Sl. No.	Name	Category	Signature
6.	Dr. R. Shunmugavel Associate Professor of Physics	Member	for CBCS R. S. P. P.
7.	Dr. N. Jeyakumaran Associate Professor of Physics	Member	N. Jeyakumaran
8.	Dr. P. Sriramachandran Associate Professor of Physics	Member	for CBCS Sriramachandran 21/3/2022
9.	Dr. S. Prakash Assistant Professor of Physics	Member	S. Prakash
10.	Dr. R. Jeyasekaran Assistant Professor of Physics	Member	for CBCS R. Jeyasekaran 21/3/22
11.	Dr. S. Vivekanandhan Assistant Professor of Physics	Member	S. Vivekanandhan 21/09/2022
12.	Dr. J. Pandiarajan Assistant Professor of Physics	Member	J. Pandiarajan
13.	Dr. P. Uma Devi Assistant Professor of Physics	Member	P. Uma Devi
14.	Mrs. A. Alagulakshmi Assistant Professor of Physics	Member	A. Alagulakshmi
15.	Dr. B. Lawrence Assistant Professor of Physics	Member	B. Lawrence
16.	Dr. M. Anitha Assistant Professor of Physics	Member	M. Anitha

Panel of Examiners

1. Dr.S.Johnson Navamani
Associate Professor of Physics
Pope's College (Autonomous), Sawyerpuram
2. Dr.K.S.Joesph Wilson
Head & Associate Professor of Physics
Arul Anandar College (Autonomous), Karumathur, Madurai
3. Dr.V.Raja M.Sc., Ph.D.,
Associate Professor of Physics
Government Arts and Science College, Melur, Madurai
4. Dr.M.Shanthi M.Sc., M.Phil., Ph.D.,
Assistant Professor of Physics
Sri Meenakshi College for Women, Madurai
5. Dr.S.S.Jayabalakrishnan M.Sc., Ph.D.,
Assistant Professor of Physics
Mannar Thirumalai Nayakkar College, Madurai
6. Dr. M. Sankareswari, M.Sc., M.Phil., Ph.D.,
Assistant Professor of Physics,
V.V.V. College for Women (Autonomous), Virudhunagar
7. Dr. I.Rathina Mala, M.Sc., M.Phil., Ph.D.,
Assistant Professor of Physics,
V.V.V. College for Women (Autonomous), Virudhunagar
8. Dr. P.Sundara Venkatesh M.Sc., M.Phil., PGDCA, Ph.D,
Assistant Professor of Physics,
S.R.N.M. College (Autonomous), Sattur
9. Dr S.Nithya, M.Sc., M.Phil., PGDCA., Ph.D.,
Assistant Professor of Physics,
S.R.N.M. College (Autonomous), Sattur
10. Dr. S. Pangajavalli, M.Sc., M.Phil., MCA., B.Ed.,
Assistant Professor of Physics,
S.R.N.M. College (Autonomous), Sattur.

11. Dr. R. Sudha Periathai M.Sc., M. Phil., Ph.D,
Assistant Professor of Physics, S.F.R College (Autonomous), Sivakasi.
12. Dr. S. Jayanthi M.Sc., Ph.D.,
Assistant Professor of Physics,
S.F.R College for Women (Autonomous), Sivakasi.
13. Dr. (Mrs.) A. Amutha, M.Sc., Ph.D.,
Assistant Professor of Physics,
S.F.R College for Women (Autonomous), Sivakasi
14. Dr. K. Balachandrakumar MSc., PhD.,
Assistant Professor of Physics,
Government Arts college, Sivakasi.
15. Dr. M. Dhanasankar., MSc., MPhil., PhD., PBDCSA.,
Assistant Professor of Physics,
Government Arts college, Sivakasi.
16. Mr.R. Kirubakaran MSc., MPhil., PhD., SET
Assistant Professor of Physics,
A.N.J.A College (Autonomous), Sivakasi
17. Dr.K. Prabakaran MSc., MPhil., PhD., B.Ed.,
Assistant Professor of Physics,
SBK College (Autonomous), Aruppukottai

Dr.N.Prithivikumar
Head & Associate Professor of Physics
Chairman – BoS Physics



BOARD OF STUDIES MEETING OF B.Sc. & M.Sc. PHYSICS HELD ON 08.10.2022

MINUTES OF THE MEETING

The Board of Studies Meeting of B.Sc. & M.Sc. PHYSICS was held today at 10.30 a.m. in the Department of Physics. After having a detailed discussion, the Board resolved the following:

1. Resolved to revise the syllabus of the courses for II year **B.Sc. Physics** as follows:

Semester III

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution Local/ National/ Global Level
			Employability	Entrepreneurship	Skill Development		
Core 4	Electrostatics and Current Electricity	Electrostatics and current electricity			✓	Revised 40%	Global
Core 5	---	Classical & Statistical Mechanics			✓	Interchanged	Global
SBS 3	---	Biomedical Instrumentation	✓	✓	✓	Interchanged	Global
Core Lab 2	General Physics II	General Physics II	✓	✓	✓	Revised 20 %	Global

Semester IV

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution Local/ National/ Global Level
			Employability	Entrepreneurship	Skill Development		
Core 6	Electromagnetism	Electromagnetism			✓	Revised 50 %	Global
Core 7	---	Optics & Spectroscopy			✓	Interchanged & Revised 10 %	Global
SBS 4	---	Physics of Human Anatomy	✓		✓	Interchanged	Global
Core Lab 2	General Physics II	General Physics II	✓	✓	✓	Revised 20 %	Global

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.



Resolved to revise the syllabus of the courses for II year **M.Sc. Physics** as follows:

Semester: III

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core 7	Solid State Physics I	Solid State Physics I			✓	Revised 30%	Global
Core 8	Quantum Mechanics II	Quantum Mechanics II			✓	Revised 30%	Global
Core 9	Nuclear and Particle Physics	Nuclear and Particle Physics			✓	Revised 30%	Global
Major Elective 3	Applied optics / Fibre optic communication	Applied optics / Fibre optic communication	✓		✓	Revised 50 %	Global
Core Lab 3	Digital Electronics & General Physics	Digital Electronics & General Physics	✓	✓	✓	Revised 12 %	Global

Semester: IV

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core 10	Solid State Physics II	Solid State Physics II			✓	Revised 45%	Global
Core 11	Molecular Spectroscopy	Molecular Spectroscopy			✓	Revised 10 %	Global
Core 12	Thermodynamics and Statistical Mechanics	Thermodynamics and Statistical Mechanics			✓	No Change	Global
Major Elective 4	Nano Physics / Bio Physics	Nano Physics / Bio Physics	✓	✓	✓	No Change	Global
Core Lab 4	Project & Viva-voce	Project & Viva-voce	✓	✓	✓	No Change	Global

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.



Resolved to revise the syllabus of the courses for II year **B.Sc. Allied Physics** as follows:

Semester III

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Allied 3	Electricity & Electronics	Electricity & Electronics			✓	No Change	Global
Allied 5 Lab	Physics Practical – II	Physics Practical – II	✓	✓	✓	No Change	Global

Semester IV

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Allied 4	Optics, Spectroscopy & Modern Physics	Optics & Photonics			✓	Revised 25 %	Global
Allied 5 Lab	Physics Practical – II	Physics Practical – II	✓	✓	✓	No Change	Global

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to approve the draft syllabi for **M.Sc. Physics** with the following changes:

Course	Unit No.	Changes
Solid State Physics I	I	Removed : Crystal Binding
	III	Removed : Kronig – Penny Model in Reciprocal space – Approximate solution near zone boundary – number of orbitals in a band
	IV	Semimetals.
	V	Zone schemes: Reduced, Extended and Periodic zone schemes. Fermi surface and Energy bands: Electron orbits – Hole orbits and Open orbits – Tight binding method for the calculation of energy bands – Wegner Seitz method – Cohesive energy. Experimental methods in Fermi surface: Quantization of orbits in a magnetic field – De Haas-Van Alphen effect – Extremal orbits – Fermi surface of Copper and Gold.



Course	Unit No.	Changes
Quantum Mechanics II	I	Breit-Wigner formula - Laboratory and Centre of Mass Coordinate systems
	II	Magnetic moment of electron – Spin-orbit interaction
	V	The Variation method: The Variational principle – Rayleigh-Ritz method – variation method for Excited states – The Ground state of Helium – The Hydrogen molecule ion – The Ground state of Deuteron – WKB Approximation: The WKB method – The Connection formulas – Validity of WKB method – Barrier penetration – Alpha emission
Nuclear and Particle Physics	I	Physical Tools: Interaction between particles and matter - A brief survey - Detectors for nuclear particles. The Nucleus and their properties: Introduction - Rutherford scattering and estimation of the nuclear size - Measurement of nuclear radius - Constituents of the nucleus and their properties -Nuclear spin, Moments and Statistics.
Applied Optics	I	Examples of paraxial optics
	II	The principle of linear superposition – Young’s experiment – the Michelson interferometer – theory of partial coherence – coherence time and coherence length – multiple beam interference: interference with multiple beam – theory of multilayer films.
	III	The Rayleigh-Sommerfeld formulation of diffraction – comparison of the Kirchhoff and Rayleigh Sommerfeld theories – discussion of the Huygens-Fresnel principle.
	IV	frequency response for diffraction limited incoherent imaging.
	V	Holography: Introduction – The basic principle – coherence requirements – resolution – Fourier transform holograms – volume holograms – applications.
Solid State Physics II	III	Raman effect in crystals
	V	Lattice Vacancies: Point defects – Schottky defects – Frenkel defects – Diffusion in metals – Fick’s law – Color centers – F Center – Other centers in Alkali Halides. Dislocations: Burger vectors – Phenomenon of Slip, Edge, and Screw dislocations – Stress fields of dislocations – Low angle grain boundary
Molecular Spectroscopy	V	Mossbauer Spectroscopy - Principles of Mossbauer Spectroscopy- Applications of Mossbauer Spectroscopy
Digital Electronics and General Physics	--	Determination of resistance and resistivity of Si & Ge semiconductor wafers using Four-probe method.



Resolved to approve the draft syllabi for **B.Sc. Physics** with the following changes:

Course	Unit No.	Changes
Electrostatics and current electricity	I	Field of a line charge-field of a sheet of charge-field of charged conductor.
	II	Equipotential surfaces, Electrostatic potential energy of a system of charges.
	III	Potentiometer – comparison of emf's of two cells
	IV	Mechanism of ionization - Experimental determination of the conductivity of an electrolyte – the mobilities of ions – Practical applications of electrolysis.
	V	Magnetic effects of currents: Introduction – Experiments of Biot and Savart - Biot and Savart law – Applications of Biot and Savart law –field due to a straight wire –field on the axis of a circular coil – magnetic field due to a solenoid. Electrical Instruments : Introduction – Tangent Galvanometer – force on a current carrying conductor in a magnetic field – general formula for the force on a current carrying conductor in a magnetic field – torque on a rectangular coil in a uniform magnetic field - the moving coil galvanometer – the ballistic galvanometer.
Electromagnetism	I	Magnetic Field and Magnetic Forces – Magnetism – magnetic poles versus electric charge – magnetic field – magnetic forces on moving charges – magnetic field lines and magnetic flux – magnetic flux and Gauss's law for magnetism – motion of charged particles in a magnetic field – magnetic force on a current carrying conductor – The Hall Effect.
	II	Sources of Magnetic Field - Magnetic field of a moving charge – moving charge: vector magnetic field – moving charge: magnetic field lines – magnetic field of a current element – current element: vector magnetic field – current element: magnetic field lines – magnetic field of a straight current carrying current – force between parallel conductors – magnetic field of a circular current loop – magnetic field of the axis of a coil - Ampere law – Amperes law for a long straight conductor.
	III	Inductors as circuit elements – Applications of inductors.
	IV	Phasors and alternating current – phasors Diagrams – Rectified alternating current
	V	Symmetry in Maxwell's equation.
Optics & Spectroscopy	II & III	Removed : Theory of Holography



Course	Unit No.	Changes
General Physics II	--	<ul style="list-style-type: none"> • Calibration of low range voltmeter using Potentiometer. • Calibration of ammeter using Potentiometer. • Determination of resistance and resistivity using Carey Foster's Bridge.

Resolved to approve the draft syllabi for **B.Sc. Allied Physics** with the following changes:

Course	Unit No.	Changes
Optics & Photonics	I	Achromatic lenses
	II	Dispersion by a prism – Refraction through a prism – Angular dispersion – Dispersive power – Achromatic combination of prisms – Dispersion without deviation – Direct vision spectroscopy – Aberration
	IV	Removed : Spectroscopy
	V	Removed : Wave nature of matter and Relativity Basic atom laser – Applications of atom laser.

3. Resolved to approve the panel of Examiners suggested by the members of the Board as given in Annexure – II.

Members Present:

Sl. No.	Name	Category	Signature
1.	Dr.N.Prithivikumaran Head & Associate Professor of Physics	Chairman	
2.	Dr.S.Johnson Navamani Associate Professor of Physics Pope's College (Autonomous) Sawyerpuram	Subject Expert	 8.10.2022
3.	Dr.V.Raja Assistant Professor of Physics Government Arts and Science College Melur, Madurai	Subject Expert	
4.	Ms. N. Moogambiga Teacher, Kshatriya Girls Higher Secondary School Virudhunagar	Alumnus	 8/10/22
5.	Mr.M.Suresh Manager – Quality Control The Ramco Cements Limited Virudhunagar	Corporate Sector	 08/10/22
6.	Dr. R. Shanmugavel Associate Professor of Physics	Member	 08.10.2022
7.	Dr. N. Jeyakumaran Associate Professor of Physics	Member	 08/10/2022

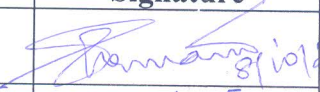



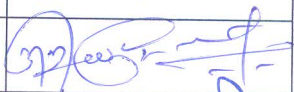
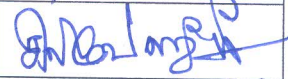



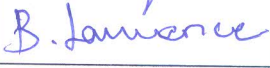



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE
(An Autonomous Institution Affiliated to Madurai Kamaraj University)

[Re-accredited with 'A' Grade by NAAC]

Virudhunagar – 626 001.



Sl. No.	Name	Category	Signature
8.	Dr. P. Sriramachandran Associate Professor of Physics	Member	
9.	Dr. V. Lakshmi Priya Assistant Professor of Physics	Member	
10.	Dr. S. Prakash Assistant Professor of Physics	Member	
11.	Mrs. N. Sumangala Devi Assistant Professor of Physics	Member	
12.	Dr. R. Jeyasekaran Assistant Professor of Physics	Member	
13.	Dr. S. Vivekanandhan Assistant Professor of Physics	Member	
14.	Dr. J. Pandiarajan Assistant Professor of Physics	Member	
15.	Dr. P. Uma Devi Assistant Professor of Physics	Member	
16.	Mrs. A. Alagu Lakshmi Assistant Professor of Physics	Member	
17.	Dr. B. Lawrence Assistant Professor of Physics	Member	
18.	Dr. M. Anitha Assistant Professor of Physics	Member	



BOARD OF STUDIES MEETING OF B.Sc. & M.Sc. PHYSICS HELD ON 07.06.2023

MINUTES OF THE MEETING

The Board of Studies Meeting of B.Sc. & M.Sc. PHYSICS was held today at 10.30 a.m. in the Department of Physics. After having a detailed discussion, the Board resolved the following:

1. Resolved to revise the syllabus of the courses for I year **M.Sc. PHYSICS** as follows:

Semester I

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New /No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core 1	Mathematical Physics-I	Mathematical Physics	✓	✓	✓	New	Global
Core 2	Electronic Circuits and Systems	Classical Mechanics and Relativity	✓	✓	✓	New	Global
Core 3	Classical Mechanics	Linear and Digital ICs and Applications	✓	✓	✓	New	Global
Core Practical 1	General Physics	General Physics & Electronics-I	✓	✓	✓	New	Global
Elective- I	Electronic Communication	Energy Physics /Communication Electronics/ Crystal Growth and Thin films	✓	✓	✓	New	Global
Professional Competency Course	--	Solar Energy Systems and Storage Devices	✓	✓	✓	New	Global
Soft Skill – I Ability Enhancement Compulsory Course	--	Understanding Materials	✓	✓	✓	New	Global



Semester II

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New /No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core 4	Mathematical Physics -II	Statistical Mechanics	✓	✓	✓	New	Global
Core 5	Electromagnetic Theory	Quantum Mechanics-I	✓	✓	✓	New	Global
Core Practical 2	Electronics	General Physics & Electronics-II	✓	✓	✓	New	Global
Elective- II	--	Advanced Optics/Plasma Physics/Bio Physics/	✓	✓	✓	New	Global
Elective- III	--	Microprocessor 8085 and Microcontroller 8051/Solid Waste Management/Medical Physics	✓	✓	✓	New	Global
Skill Enhancement Course – I	--	Nanotechnology and its Applications	✓	✓	✓	New	Global
Soft Skill – II Ability Enhancement Compulsory Course	--	Digital Communication	✓	✓	✓	New	Global
Internship* / Industrial Activity	--	--					

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.



2. Resolved to revise the syllabus of the courses for I year **B.Sc. PHYSICS** as follows:

Semester I

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core 1	Mechanics and Sound	Properties of Matter and Sound	✓	✓	✓	New	Global
Core Practical 1	General Physics I	General Physics I	✓	✓	✓	New	Global
Skill Enhancement Course SEC-1	--	NME - Physics For Everyday Life	✓	✓	✓	New	Global
Foundation Course	--	Introductory Physics	✓	✓	✓	New	Global

Semester II

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core 2	Properties of Matter	Heat, Thermodynamics and Statistical Physics	✓	✓	✓	New	Global
Core Practical 1	General Physics I	General Physics I	✓	✓	✓	New	Global
Skill Enhancement Course SEC-2	--	NME – Astrophysics	✓	✓	✓	New	Global
Skill Enhancement Course SEC-3	---	Communication Systems	✓	✓	✓	New	Global

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.



3. Resolved to revise the syllabus of the courses for I year **B.Sc. ALLIED PHYSICS** as follows:

Semester I/III for B.Sc. Mathematics/Chemistry

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Allied 1	Mechanics, Properties of Matter and Sound	Allied Physics I	✓	✓	✓	New	Global
Allied Practical 1	Allied Physics Practical –I	Allied Physics Practical I	✓	✓	✓	New	Global

Semester II/IV for B.Sc. Mathematics/Chemistry

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Allied 2	Thermal Physics	Allied Physics II	✓	✓	✓	New	Global
Allied Practical 2	Allied Physics Practical –II	Allied Physics Practical II	✓	✓	✓	New	Global

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

4. Internship will be carried out during the summer vacation of the first year and credits will be awarded in the Third Semester.
5. In view of the implementation of the new curriculum as per TANSCHÉ, it has been decided to follow the existing syllabus for the II B.Sc. Physics students for the academic year 2023 – 2024 instead of the one proposed in the previous board of studies.
















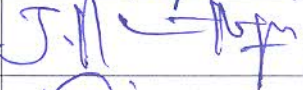


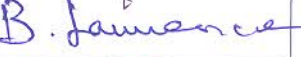

VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE
(An Autonomous Institution Affiliated to Madurai Kamaraj University)

[Re-accredited with 'A' Grade by NAAC]

Virudhunagar – 626 001.



Members Present:

Sl.No.	Name	Category	Signature
1.	Dr.N.Prithivikumaran Head & Associate Professor of Physics	Chairman	 7/6/23
2.	Dr. A. Basherrudin Mahmud Ahmed Assistant Professor, Departments of Theoretical Physics, School of Physics, Madurai Kamaraj University, Madurai	University Nominee	 7/6/23
3.	Dr.S.Johnson Navamani Associate Professor of Physics Pope's College (Autonomous), Sawyerpuram	Subject Expert	 7/6/23
4.	Dr.V.Raja Associate Professor of Physics Government Arts and Science College Melur, Madurai	Subject Expert	
5.	Ms. N. Moogambiga Teacher, Kshatriya Girls Higher Secondary School, Virudhunagar	Alumnus	
6.	Dr. R. Shunmugavel Associate Professor of Physics	Member	
7.	Dr. N. Jeyakumaran Associate Professor of Physics	Member	
8.	Dr. P. Sriramachandran Associate Professor of Physics	Member	
9.	Dr.V.Lakshmpriya Assistant Professor of Physics	Member	
10.	Dr. S. Prakash Assistant Professor of Physics	Member	 7/6/23
11.	Mrs. N. Sumangala Devi Assistant Professor of Physics	Member	
12.	Dr. R. Jeyasekaran Assistant Professor of Physics	Member	
13.	Dr. S. Vivekanandhan Assistant Professor of Physics	Member	
14.	Dr. J. Pandiarajan Assistant Professor of Physics	Member	
15.	Dr. P. Uma Devi Assistant Professor of Physics	Member	
16.	Mrs. A. Alagulakshmi Assistant Professor of Physics	Member	
17.	Dr. B. Lawrence Assistant Professor of Physics	Member	
18.	Dr. M. Anitha Assistant Professor of Physics	Member	



BOARD OF STUDIES MEETING OF B.Sc. & M.Sc. PHYSICS HELD ON 30.10.2023

MINUTES OF THE MEETING

The Board of Studies Meeting of B.Sc. & M.Sc. PHYSICS was held today at 11.00 a.m. in the Department of Physics. After having a detailed discussion, the Board resolved the following:

1. Resolved to revise the syllabus of the courses for I year **B.Sc. Physics** as follows:

Semester II

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core 2	Properties of Matter	Mechanics			✓	New	Global
Core 3	Heat and Thermodynamics	Heat and Thermodynamics			✓	Revised 10%	Global
Core Lab	General Physics II	General Physics II	✓	✓	✓	Revised 25%	Global
NME	--	Astrophysics	✓	✓	✓	New	Global

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to revise the syllabus of the courses for I year **M.Sc. Physics** as follows:

Semester: II

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core 4	Mathematical Physics	Advanced Mathematical Physics			✓	New	Global
Core 5	Electromagnetic Theory	Electromagnetic Theory			✓	No Change	Global
Core 6	Quantum Mechanics I	Quantum Mechanics I			✓	No Change	Global
NME	Non-Conventional Energy Sources	Non-Conventional Energy Sources	✓		✓	No Change	Global
Major Elective 2	Solar Energy Systems and Storage Devices	Electronic Communication Systems	✓	✓	✓	New	Global
Core Lab 2	Lab: Electronics	Lab: General Physics and Electronics II				Revised 50%	Global



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE
 (An Autonomous Institution Affiliated to Madurai Kamaraj University)
 [Re-accredited with 'A' Grade by NAAC]
 Virudhunagar – 626 001.



The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

3. Resolved to revise the syllabus of the courses for I year (II Semester) **B.Sc. Allied Physics** as follows:

Semester II

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Allied 2	Thermal Physics	Thermal Physics			✓	New	Global
Allied Lab	Physics Practical – II	Physics Practical – II	✓	✓	✓	No Change	Global

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

4. Resolved to approve the panel of Examiners suggested by the members of the Board as given in Annexure – II.

Members Present:

Sl. No.	Name	Category	Signature
1.	Dr.N.Prithivikumaran Head & Associate Professor of Physics	Chairman	 30.10.23
2.	Dr.S.Johnson Navamani Associate Professor of Physics Pope's College (Autonomous) Sawyerpuram	Subject Expert	 30.10.23
3.	Dr.V.Raja Associate Professor of Physics Government Arts and Science College Melur, Madurai	Subject Expert	 30/10/23
4.	Ms. N. Moogambiga Teacher Kshatriya Girls Higher Secondary School, Virudhunagar	Alumnus	 30/10/23
5.	Dr. R. Sthnugavel Associate Professor of Physics	Member	 20.10.2023
6.	Dr. N. Jeyakumaran Associate Professor of Physics	Member	 30/10/2023
7.	Dr. P. Sriramachandran Associate Professor of Physics	Member	 30.10.23.



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE
(An Autonomous Institution Affiliated to Madurai Kamaraj University)
[Re-accredited with 'A' Grade by NAAC]
Virudhunagar – 626 001.



Sl. No.	Name	Category	Signature
8.	Dr.V.Lakshmi Priya Assistant Professor of Physics	Member	V. Lakshmi 30/10/23
9.	Dr. S. Prakash Associate Professor of Physics	Member	S. Prakash 30/10/23
10.	Mrs. N. Sumangala Devi Assistant Professor of Physics	Member	N. Sumangala Devi 30/10/23
11.	Dr. R. Jeyasekaran Assistant Professor of Physics	Member	R. Jeyasekaran 30/10/23
12.	Dr. S. Vivekanandhan Assistant Professor of Physics	Member	S. Vivekanandhan 30/10/23
13.	Dr. J. Pandiarajan Assistant Professor of Physics	Member	J. Pandiarajan 30/10/23
14.	Dr. P. Uma Devi Assistant Professor of Physics	Member	P. Uma Devi 30/10/23
15.	Mrs. A. Alagulakshmi Assistant Professor of Physics	Member	A. Alagulakshmi 30/10/23
16.	Dr. M. Anitha Assistant Professor of Physics	Member	M. Anitha 30/10/23