



## Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category A by MHRD, Estd. u/s 3 of UGC Act 1956)

Re-accredited with A+ Grade by NAAC. Recognised by UGC Under Section 12 B

Coimbatore - 641 043, Tamil Nadu, India

### Minutes of 37<sup>th</sup> Board of Studies in Physics held on 27.09.2021 at 10 a.m. online:

Meet Link: <https://meet.google.com/cnz-vvth-iwu> (Physics)

#### Members List:

##### Internal Members:

- |   |               |
|---|---------------|
| 1. Dr. N. S. Rajeswari, Assistant Professor (SG) & Head i/c | - Chairperson |
| 2. Dr. J. Shanthi, Professor                                | - Member      |
| 3. Mrs. S. Anitha, Assistant Professor                      | - Member      |
| 4. Dr. V. Sasirekha, Assistant Professor (SS)               | - Member      |

##### External Members:

1. Dr. G. Ravi,  
Professor and Head, Dept. of Physics  
'Alagappa University, Karaikudi- 630003
2. Dr. C. Ramachandra,  
Director - Technical,  
FOUR-C-TRON, Indiranagar, Bangalore-560008

##### Invited Members:

1. Dr. B. Nalini, Assistant Professor
2. Mrs. G. Kiruthiga, Teaching Assistant
3. Ms. V. Bhuvaneswari, Teaching Assistant
4. Dr. S. Supriya, Teaching Assistant
5. Ms. J. Jayasudha, Alumni
6. Ms. S. Jaihdhiksha, I M.Sc. Physics
7. Ms. S. Shree Dhanya, III B.Sc. Physics

#### Agenda:

1. (a). Inclusion of **Programme Learning Outcomes** applicable for **Post Graduate students** admitted from 2021-2022 & onwards.  
(b). Inclusion of **CLO-PLO mapping** and matrix for 1<sup>st</sup> and 2<sup>nd</sup> semester, applicable for **Post Graduate students** admitted from 2021-2022 & onwards.  
(c). Revision in the Conceptual Framework of Curriculum and Scheme of Instruction and Examination for **Post Graduate Students** admitted from 2021-2022 & onwards due to shifting of theory papers from 4<sup>th</sup> semester to 1<sup>st</sup> to 3<sup>rd</sup> semester & offering **only Research Project** during 4<sup>th</sup> semester.
2. (a). Inclusion of **Programme Learning Outcomes** applicable for **Under Graduate students** admitted from 2021-2022 & onwards.

- (b). Inclusion of **CLO-PLO mapping** and matrix for 1<sup>st</sup> and 2<sup>nd</sup> semester, applicable for **Under Graduate students** admitted from 2021-2022 & onwards.
  - (c). Introduction of 21BAFU01 **Fundamentals of Research** under Part IV component with 2 credits as **Ability Enhancement Compulsory Course** for all the Under Graduate Students admitted from 2021-2022 & onwards.
  - (d). Increase in the credits of **NCC from 6 to 24 (credits)** as per UGC Guidelines, offered as Extra-Curricular Course under Part IV Component applicable for **Under Graduate - NCC** students admitted from the academic year 2021-2022 & onwards.
3. Passing the syllabi of **Specialisation papers** applicable for **Ph.D. scholars** admitted during **August / September, 2021**.
  4. Revision of certain subjects applicable for students admitted from 2019-2020 & onwards (already permitted by the Vice Chancellor)
  5. List of Subject experts for question paper setting and valuation & subject experts for Screening & Selection Committee
  6. Any other matter.

**The Board discussed the following items:**

#### **Discussions of the Meeting**

**Agenda 1(a):** Inclusion of **Programme Learning Outcomes** applicable for **Post Graduate students** admitted from 2021-2022 & onwards.

**Discussion:** Programme Learning Outcomes (PLO) applicable for M.Sc. Physics are included for the students admitted from 2021-2022 & onwards and are discussed, approved and enclosed in **Annexure I**

**Agenda 1(b).** Inclusion of **CLO-PLO mapping** and matrix for 1<sup>st</sup> and 2<sup>nd</sup> semester, applicable for **Post Graduate students** admitted from 2021-2022 & onwards.

**Discussion:** Course Learning Outcomes – Programme Learning Outcomes (CLO-PLO) mapping and matrix are included after each course syllabus in the M.Sc., Physics for the 1<sup>st</sup> and 2<sup>nd</sup> semesters and are discussed, approved and enclosed in **Annexure I**

**Agenda 1(c).** Revision in the Conceptual Framework of Curriculum and Scheme of Instruction and Examination for **Post Graduate Students** admitted from 2021-2022 & onwards due to shifting of theory papers from 4<sup>th</sup> semester to 1<sup>st</sup> to 3<sup>rd</sup> semester & offering **only Research Project** during 4<sup>th</sup> semester.

**Discussion:**

**For M.Sc. Physics the following changes/corrections are made:**

- (i) Course code of all the courses including IDC and MDC, are changed

- (ii) Contents of Laser and Spectroscopy (20MPHC03) (unit I and II) are removed and content of unit IV and partial content of unit III of Molecular Spectroscopy (20MPHC20) are removed and other contents are merged and introduced as **21MPHC03-Molecular Spectroscopy** in the I semester in the place of Laser and Spectroscopy.

**Revision of courses without title change**

Course code	Course title	Semester	Credits	Percentage of revision
21MPHC03	Molecular Spectroscopy	I	4	40% in this course

- (i) The title of the Course '**20MPHC21-Thesis**' is changed to '**21MPHC20-Research Project**'.
- (ii) The credits are modified and the total credits for M.Sc. Physics is modified to 97 (Part I - 92 + Part II - 5) as per the conceptual framework of curriculum. The above said aspects are discussed, approved and enclosed in **Annexure -I**. This is applicable for the students admitted from 2021-2022 & onwards

**Agenda 2. (a).** Inclusion of **Programme Learning Outcomes (PLO)** applicable for **Under Graduate students** admitted from 2021-2022 & onwards.

**Discussion:** PLO for the B.Sc. Physics students to be admitted from 2021-2022 and onwards are included, discussed, approved and enclosed in **Annexure II**

**Agenda 2. (b).** Inclusion of Course Learning Outcomes – Programme Learning Outcomes (**CLO-PLO**) **mapping** and matrix for 1<sup>st</sup> and 2<sup>nd</sup> semesters, applicable for **Under Graduate students** admitted from 2021-2022 & onwards.

**Discussion:** Course Learning Outcomes – Programme Learning Outcomes (**CLO-PLO**) mapping and matrix are included after each course syllabus in the B.Sc., Physics for the 1<sup>st</sup> and 2<sup>nd</sup> semesters and are discussed, approved and enclosed in **Annexure II**

**Agenda 2 (c).** Introduction of 21BAFU01 **Fundamentals of Research** under Part IV component with 2 credits as **Ability Enhancement Compulsory Course** for all the Under Graduate Students admitted from 2021-2022 & onwards.

**Discussion:** Introduction of 21BAFU01 **Fundamentals of Research** under Part IV component with 2 credits as **Ability Enhancement Compulsory Course** for B.Sc., Physics Students admitted from 2021-2022 & onwards is approved and enclosed in **Annexure II**

**Agenda 2 (d).** Increase in the credits of **NCC from 6 to 24 (credits)** as per UGC Guidelines, offered as Extra-Curricular Course under Part IV Component applicable for **Under Graduate -NCC** students admitted from the academic year 2021-2022 & onwards.

**Discussion: Approved**

**Agenda 3.** Passing the syllabi of **Specialization papers** applicable for **Ph.D. scholars** admitted during **August, 2021**.

**Discussion:** The syllabi of Specialization courses applicable for Ph.D. scholars admitted during August/September 2021 (i) **21PHPH03A Thin film and Applications** (ii) **21PHPH03B Semiconductor Devices and Quantum Computation** and (iii) **21PHPH03C Battery Construction and Characterization** are discussed, approved and enclosed in **Annexure III**

*Introduction of courses/Revision of Courses in Part IV Component of UG/ Part II Component of PG with title change*

Course code	Course title	Semester	Credits	Type (Specify- New/Title change)	Percentage of revision (if new indicate as new)
<b>21PHPH03A</b>	<b>Thin film and Applications</b>	I Year	5	Title not changed	10%
<b>21PHPH03B</b>	<b>Semiconductor Devices and Quantum Computation</b>	I Year	5	New	60%
<b>21PHPH03C</b>	<b>Battery Construction and Characterization</b>	I Year	5	New	New

**Agenda 4.** Revision of certain subjects applicable for students admitted from 2019-2020 & onwards (already permitted by the Vice Chancellor)

**Discussion: Not applicable**

**Agenda 5.** List of Subject experts for question paper setting and valuation & subject experts for Screening & Selection Committee

**Discussion:** List of subject experts for question paper setting and valuation & subject experts for screening and selection committee is revised, approved and enclosed in **Annexure IV**

**Agenda 6.** Any other matter.

**Discussion**

**6.(a)** The title and code of DSE II Physics offered to B.Sc., Special Education and Mathematics is changed to **21BSEI02 Allied Physics** and **21BSEI03 Allied Physics Practical** and applicable to the students admitted from 2021-2022 & onwards is discussed, approved and enclosed in **Annexure V**

**Title change:**

Course code	Course title	Semester	Credits	Type (Specify- New/Title change)	Percentage of revision (if new indicate as new)
21BSEI02	Allied Physics	II	4	Title Change	Nil
21BSEI03	Allied Physics Practical	II	2	Title Change	Nil

**6(b). Discussion on the Minutes of Workshop on Feedback of curriculum:**

A workshop in the Department was organized on 21.09.2021 and suggestions by the Students and alumni on curriculum and syllabus were discussed. The minutes is placed before the BoS (**Annexure VI**). The following suggestions are made by the BoS Members:

(i) The contents of UG and PG Physics need not be reduced is suggested by the External Members

(ii) 20% of questions in the CIA and CE components of examinations, should be of problems solving type, for all core courses in UG Physics.

(ii) 30% of questions in the CIA and CE components of examinations, should be of problems solving type, for all core courses in <sup>U</sup>~~G~~<sub>P</sub> Physics.

**6(c)** Ratification of Specialization papers applicable for Ph. D. Full-time Scholar admitted in January 2021. The papers are:

**20PHPH03A Thin film and Applications**

**20PHPH03B Nuclear Physics**

**Ratified.**

**Members Present:**

1. Dr. N. S. Rajeswari, Assistant Professor (SG) & Head i/c
2. Dr. J. Shanthi, Professor *J Shanthi 27/9/21*
3. Mrs. S. Anitha, Assistant Professor
4. Dr. V. Sasirekha, Assistant Professor (SS)

**Signature**

*N.S. Rajeswari 27/9/2021*

*S. Anitha 27.09.21*

*V. Sasirekha 27/9/21*

**External Members:**

1. Dr. G. Ravi, Professor and Head, Dept. of Physics  
Alagappa University, Karaikudi
2. Dr. C. Ramachandra, Director – Technical,  
FOUR-C-TRON, Indiranagar, Bangalore

**Invited Members:**

**Signature**

1. Dr. B. Nalini, Assistant Professor

*B. Nalini* 27/09/2021

2. Mrs. G. Kiruthiga, Teaching Assistant

*G. Kiruthiga* 27/09/2021

3. Ms. V. Bhuvaneswari, Teaching Assistant

*V. Bhuvaneswari* 27/9/21

4. Dr. S. Supriya, Teaching Assistant

*S. Supriya* 27/9/2021

5. Ms. J. Jayasudha, Alumni

*Jayasudha* 27/9/2021

6. Ms. S. Jaihdhiksha, IPG Physics

*S. Jaihdhiksha* 27/9/2021

7. Ms. S. Shree Dhanya, III UG Physics

*S. Shree Dhanya* 27/9/2021



HOD Physics <hod\_physics@avinuty.ac.in>

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**(no subject)**

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**Ganesan Ravi** <gravicrc@gmail.com>  
To: HOD Physics <hod\_physics@avinuty.ac.in>

Mon, Sep 27, 2021 at 1:13 PM

Dear Madam,

The meeting of the Board of Studies was conducted in a nice way and I give my approval for the proceedings of the meeting and drafted minutes.

with regards,

G.Ravi

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With regards

**Dr.G.RAVI Ph.D., D.Sc.,**  
Dean, Industry & Consultancy  
Professor and Head  
Department of Physics  
Alagappa University  
Karaikudi-630 004  
India



HOD Physics <hod\_physics@avinuty.ac.in>

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## Minutes of the BoS in Physics - 27.09.2021 -reg

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Chitakudige Ramachandra <chitakudige.ks@gmail.com>

Mon, Sep 27, 2021 at 4:03 PM

To: HOD Physics <hod\_physics@avinuty.ac.in>, Chitakudige Ramachandra <chitakudige.ks@gmail.com>

Dear madam,

The minutes of the meeting are agreed and approved.

Regards

Dr. C. Ramachandra

M : 9448541666

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