

# BSc Degree Programme 2021/2022

## Course Information - Level 3

**PHU3300 General and Thermal Physics**

**PHU3301 Basic Electromagnetism**

**PHU3202 Waves in Physics**

**FNU3201 Communication Skills**

More details about the above courses (*detailed course information, syllabus, activity schedules, practical groups, announcements, model question paper, etc.*) will be posted in **Learn-OUSL** at <https://learnousl.ou.ac.lk/> (under the *Natural Sciences > Physics > Relevant courses*) **at the beginning of the academic activities** for the relevant semester.



**Department of Physics**  
**Faculty of Natural Sciences**  
**The Open University of Sri Lanka**

## Common Instructions to All Students

Dear Student,

Please read this information carefully and plan your activities accordingly. If you need any further assistance do not hesitate to contact the respective Senior Course Coordinators.

**Department of Physics offers / coordinates following courses at Level 3:**

PHU3300	General and Thermal Physics	(Conducted in 1 <sup>st</sup> Semester)
PHU3301	Basic Electromagnetism	(Conducted in 2 <sup>nd</sup> Semester)
PHU3202	Waves in Physics	(Conducted in 2 <sup>nd</sup> Semester)
FNU3201	Communication Skills	(Conducted in 1 <sup>st</sup> Semester)

### **Physics Department Time Table:**

- Department Time Table is just detailed version of the Master Time Table, (which was given to you by the Faculty).
- Department Time Table will be posted in the MyOUSL and in the Physics Department's homepage (*at official OUSL website*) at the commencement of academic activities of a semester.
- Always refer Department Time Table / Learn-OUSL for detailed Activity Schedules and Practical Group information.

### **Dayschools / Workshops:**

- Depending on the Covid19 situation, the dayschools (DS) /workshops (WS) will be conducted either **Online** or combined **Online & Onsite** mode.
- You are strongly advised to attend all the DS /WS as much as possible in order to discuss all the clarifications / difficulties arisen during reading the course materials.
- You are requested to come up with problems, questions, doubts and anything that you could not understand in the course materials and discuss them with the dayschool lecturers.
- Therefore, before attending a dayschool, make sure that you read the relevant sessions of the course materials which will be taken up for discussions at that dayschool. Details for each course will be available in the **Learn-OUSL** (<https://learnousl.ou.ac.lk/>).

### Compulsory Practical Sessions:

- Courses PHU3300 and PHU3301 have 4-day and 3-day Practical Session respectively.
- Depending on the registered number of students for each course, the Practical Session will be conducted in specific number Practical Groups.
- Your full participation in one Practical Group is compulsory, to successfully complete the course.
- **Level 03 Practical Sessions / Presentations are conducted ONLY at the following six Regional Centers:**  
Anuradhapura (Sinhala/English), Batticaloa (Tamil/English),  
Colombo (Sinhala/Tamil/English), Jaffna (Tamil/English),  
Kandy (Sinhala/English), and Matara (Sinhala/English)
- You have to reserve **only one Practical Group**, at your Registered Regional Center. But if your Registered Regional Center is not listed above, then you must reserve one Practical Group at the Closest Regional Center.
- At the beginning of the 1<sup>st</sup> semester activities, you can reserve your Practical Group online at **Learn-OUSL**.

### Continuous Assessment Tests and Final Examinations:

- For each course, usually two Continuous Assessment Tests (CATs) will be conducted as specified in the Master Time Table (also Department Time Table).
- For each course, Final Examinations (FEs) will be conducted at the end of the respective semester.
- More details about the CATs and FEs will be posted by the respective Senior Coordinators in the **Learn-OUSL**
- Only those students who get **eligibility** (*Overall Continuous Assessment Marks: OCAM  $\geq$  35*) will be allowed to sit for the Final Examination.
- The Overall Assessment Mark (Z%) of a student in respect of any course, shall be based on the OCAM (X%) and the mark obtained at the Final Examination (Y%) and shall be computed as follows:  
If  $Y \geq 40$ , then  $Z = 0.4 X + 0.6 Y$   
If  $30 \leq Y < 40$ , then  $Z = 0.4 X + 0.6 Y$ , subject to a maximum of 40.  
If  $Y < 30$ , then  $Z = Y$

Course information and additional details are given below:

### PHU3300/PHE3300 General and Thermal Physics

**Senior Course Coordinator:** Mrs. K.N.D. Bandara

Tel: 011 2881 242

Email: knban@ou.ac.lk

### Course Materials:

Unit 1 Mechanics

Unit 2 Properties of Matter

Unit 3 Heat & Thermodynamics

Unit 4 Practical Guide

### Dayschools / Workshops / Practical Sessions / CATs

Activity	Duration	Sessions covered
DS1 and DS2	04 hr	Unit 1: All Sessions
DS3 and DS4	04 hr	Unit 2: All Sessions
DS5 and WS1	04 hr	Unit 3: All Sessions
Practical Session	24 hr	Experiments in Practical Guide
Revision DS	03 hr	All Units
<b>CAT 1</b>	01 hr	Unit 1: All Sessions
<b>CAT 2</b>	01 hr	Units 2 & 3: All Sessions

### Continuous Assessment Test (CAT), PM, OCAM and Eligibility:

- Two CATs (each of them of 1-hour duration) will be conducted during the semester; and one of them will be onsite and the other will be online.
- Practical Mark (PM): It will be calculated based on the Marks obtained for the practical reports and the viva.
- Overall Continuous Assessment Mark will be calculated as follows:  
 $OCAM = 0.36 \text{ of best NBT} + 0.24 \text{ of other NBT} + 0.4 \text{ of PM}$
- Eligibility to sit for the Final Examination:  
Only those who get  $OCAM \geq 35$  can sit for the Final Examination

### Final Examinations

- The final examination will be of two (02) hours duration.
- Students need to answer four (04) essay questions out of six (06).
- It will be held at the semester end.

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**PHU3301/PHE3301 – Basic Electromagnetism**

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**Senior Course Coordinator:** Mr. D.L.N. Jayathilaka  
Tel: 011 2881 242 Email: dljay@ou.ac.lk

**Course Materials:**

- Unit 1 Static and Current Electricity
- Unit 2 Magnetism and Alternating Current
- Unit 3 Practical Guide

**Dayschools / Workshops / Practical Sessions / CATs**

Activity	Duration	Sessions covered
DS1 and DS2	04 hr	Unit 1: All Sessions
DS3 and DS4	04 hr	Unit 2: All Sessions
DS5 and WS1	04 hr	
Practical Session	18 hr	Experiments in Practical Guide
Revision DS	03 hr	All Units
<b>CAT 1</b>	01 hr	Unit 1: All Sessions
<b>CAT 2</b>	01 hr	Unit 2: All Sessions

**Continuous Assessment Test (CAT), PM, OCAM and Eligibility:**

- Two CATs (each of them of 1-hour duration) will be conducted during the semester; and one of them will be onsite and the other will be online. These
- Practical Mark (PM): It will be calculated based on the Marks obtained for the practical reports and the viva.
- Overall Continuous Assessment Mark will be calculated as follows:  
 $OCAM = 0.36 \text{ of best NBT} + 0.24 \text{ of other NBT} + 0.4 \text{ of PM}$
- Eligibility to sit for the Final Examination:  
Only those who get  $OCAM \geq 35$  can sit for the Final Examination

**Final Examinations**

- The final examination will be of two (02) hours duration.
- Students need to answer four (04) essay questions out of six (06).
- It will be held at the semester end.

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**PHU3202/PHE3202 – WAVES IN PHYSICS**

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**Senior Course Coordinator:** Dr. N. Karthikeyan  
Tel: 011 2881 449 Email: nkart@ou.ac.lk

**Course Materials:**

- Unit 1 Vibrations
- Unit 2 Sound
- Unit 3 Electromagnetic Waves

**Dayschools / Workshops / CATs**

Activity	Duration	Sessions covered
DS1 and DS2	04 hr	Unit 1: All Sessions
DS3 and DS4	04 hr	Unit 2: All Sessions
DS5 and WS1	04 hr	Unit 3: All Sessions
Revision DS	03 hr	All Units
<b>CAT 1</b>	01 hr	Unit 1: All Sessions
<b>CAT 2</b>	01 hr	Units 2 & 3: All Sessions

**Continuous Assessment Test (CAT), PM, OCAM and Eligibility:**

- Two CATs (each of them of 1-hour duration) will be conducted during the semester; and one of them will be onsite and the other will be online.
- Overall Continuous Assessment Mark will be calculated as follows:  
 $OCAM = 0.6 \text{ of the best NBT} + 0.4 \text{ of other NBT}$
- Eligibility to sit for the Final Examination:  
Only those who get  $OCAM \geq 35$  can sit for the Final Examination

**Final Examinations**

- The final examination will be of two (02) hours duration.
- Students need to answer four (04) essay questions out of six (06).
- It will be held at the semester end.

## FNU3201 Communication Skills

**Senior Course Coordinator:** Mrs. Renuka Hettiarachchi  
Tel: 011 2881 242 Email: rdhet@ou.ac.lk

### Course Materials:

Unit 1 Communication Skills

Unit 2 Communication Skills

Unit 3 Communication Skills

### Contact Details at Regional Centers:

Anuradhapura (ARC):	Dr. H.M.P.S. Herath	Tel: 071 8308 804
Batticaloa (BRC):	Will be given later	Tel: 065 2222 264
Colombo (CRC):	Mrs. Renuka Hettiarachchi	Tel: 011 2881 242
Jaffna (JRC):	Will be given later	Tel:
Kandy (KRC):	Dr. Nayomi Yapa	Tel: 071 9156 724
Matara (MRC):	Dr. U.G.D. Maduranga	Tel: 077 7245 735

### Dayschools / Workshops / CATs / Presentations

Activity	Duration	Sessions covered
DS1 and DS2	04 hr	Unit 1
DS3 and DS4	04 hr	Unit 2
<b>DS5 and DS6 (Compulsory)</b>	04 hr	Unit 3 + Presentation Grouping
WS1	02 hr	Units 3
<b>Presentation</b>	½ hr	Units 2 & 3
Revision DS	04 hr	Units 1 & 2
<b>CAT 1</b>	01 hr	Unit 1
<b>CAT 2</b>	01 hr	Unit 2

- Attendance for the Continuous Assessment tests are compulsory.
- You will be grouped to do student presentations. Presentation groups are formed during the **compulsory dayschool** (i.e. DS5 and DS6).

### Student Presentations:

- There will be one student presentation.
- Please note that student presentations are compulsory.
- The allocated dates for Presentations at Regional Centers are shown in the Master Time Table and the Department Time Table.
- You should select one session to do your presentation.
- Student presentations are held **ONLY** at ARC, BRC, CRC, JRC, KRC and MRC.

Activity	Session	Regional Centre
Workshop Presentations	1	CRC, KRC, MRC
Workshop Presentations	2	CRC, KRC, MRC
Workshop Presentations	3	CRC, KRC
Workshop Presentations	4	ARC, BRC, JRC, CRC

### Continuous Assessment Test (CAT), Presentation, OCAM and Eligibility:

- Two CATs will be conducted during the semester each of them is of 1-hour duration.
- Student Presentation will be evaluated
- Overall Continuous Assessment Mark will be calculated as follows:  
OCAM = 0.6 of the best NBT + 0.4 of the Presentation
- Eligibility to sit for the Final Examination:  
Only those who get OCAM  $\geq 35$  can sit for the Final Examination

### Final Examinations

- The final examination will be of two (02) hours duration, with essay type questions. It will be held at the semester end.

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This [Information Sheet](#) and [Department Time Table](#) can also be downloaded from the homepage of the Department at OUSL Website.