



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF PHYSICS

Minutes of Meeting –BoS– 20th November, 2021

MINUTES OF THE 3rd ONLINE MEETING

BOARD OF STUDIES OF PHYSICS

DATE: 20th November 2021, Saturday

Time: 2.00 PM –4.00 PM

PLATFORM: GOOGLE MEET

Meeting Link: <https://meet.google.com/udt-utgh-tic>

IN ATTENDANCE:

S.No	Name of the Expert	Designation	Capacity
1	Dr.A.Bhaskaran	Professor and Head, Department of Applied Physics, Head - Campus Safety and Security, Sri Venkateswara College of Engineering, Sriperumbudur - 602117	Overall Coordinator of First-year Board
2	Dr.M.Mahendran	Professor and Head, Department of Physics Thiagarajar College of Engineering, Madurai Email: manickam-mahendran@tce.edu Phone: 04522482240	Anna University Nominee
3	Dr.K.Jayakumar	Former Professor, Department of Physics, Gandhigram Rural Institute (Deemed to be University), Gandhigram, Dindigul Kjkumar_gri@rediffmail.com Phone: 04512452371	Academic Council nominated BoS Member



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FACULTY OF PHYSICS	MEMBERS
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S.No	Name of the Faculty	Designation
1	Dr. A.Yelilarasi	Chairman / HoD-Physics <i>for Dr. Hema</i>
2	Dr. M.Hema	Associate Professor / Physics <i>Dr. Hema</i>
3	Dr.K.Sakthiraj	Assistant Professor / Physics <i>Sakthiraj</i>
4	Dr.M.Shanthi	Assistant Professor / Physics <i>a-hs</i>
5	Dr.G.Bharathy	Assistant Professor / Physics <i>Bharathy</i>
6	Dr.K.M.Manikandan	Assistant Professor / Physics <i>Manikandan</i>

THE MINUTES:

The meeting is called for considering the Undergraduate curriculum & syllabi.

DISCUSSIONS:

1. Dr. K.Sakthiraj, Assistant Professor, Department of Physics welcomed the gathering and board of studies members of Physics.
2. Dr.A.Yelilarasi, Head & Associate Professor, Department of Physics discussed the important minutes of the second BoS meeting about the open elective syllabus offered by Physics department.



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3. Dr.A.Yelilarasi presented the syllabus for first-semester theory PH101- Engineering Physics & PH102- Physics laboratory common to all branches.
4. BoS members accepted the PH101- Engineering Physics syllabus because no modifications are done in the R2020 syllabus.
5. In PH102-Physics Laboratory 10 experiments are introduced. BoS members commented on this. Dr.M.Mahendran, Dr.K.Jayakumar and Dr.A.Bhaskaran suggested that, for the Physics laboratory to complete the 10 experiments, we need 12 to 14 weeks and also need time to conduct a model exam. Hence 7 experiments out of 10 can be considered, and one experiment should be demonstrated.
6. Dr.A.Bhaskaran suggested that only one theory paper for both semesters is not enough. He also suggested the following points:
 - For first-semester fundamental Engineering physics is enough, but for the second semester, it is essential to have branch specific Physics papers like Material Science, Physics of Materials & Physics for civil Engineers.
 - For EEE & ECE students, their core papers are relevant to semiconductors and advanced level Quantum mechanics, so the students need basic knowledge about it. Quantum computing is also a blooming up technology now.
 - Mechanics, Advanced Mechanics, Materials Science must be covered in the second semester for Mechanical Engineering students. He also mentioned that all branches of students must know the properties of materials.



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- He also pointed out that “Students straight away cannot take the Engineering without physics”. He recommended it to the Academic Council for consideration. Dr.K.Jayakumar accepted the same.


7. Dr.M.Mahendran suggested the following points:

- Department of Physics must offer a separate Materials Science paper for second semester or branch-specific papers like physics for Electronics Engineering, Physics for Information science, and physics for Civil engineering.
- He also suggested that in addition to material science, Physics department should offer foundation electives for higher semesters(fourth semester to eighth semester) like “Smart materials, Quantum computing, Nano-materials, and thin film”
- He requested the Principal, Management, and HoDs of all departments to have a separate physics theory paper on the second semester, because physics or materials knowledge is an essential one for all branches of Engineering.

8. Dr.K.Jayakumar suggested that most of the devices depend on materials, so he has recommended a common Materials science paper for the second semester.

9. Dr.M.Hema. Associate Professor / Physics proposed the vote of thanks to all the external and internal experts. The meeting adjourned.


[Dr.G. Bharathy]
BOS Coordinator - Physics Dept.


C. Dr. A. Yelid (Ravi)
HOD/ Phys.