



(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), Madurai District.

DEPARTMENT OF PHYSICS
Minutes of Meeting –BoS–8th May 2021

MINUTES OF THE 2nd ONLINE MEETING

BOARD OF STUDIES OF PHYSICS

DATE: 8th May, 2021, Saturday

Time: 2.00 PM –4.00 PM

PLATFORM: MICROSOFT TEAMS

Meeting Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NWVhMTFhMmEtNTA5YS00NjdhLTg3NjltNWUyNmU5MDdmZGJk%40thread.v2/0?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%2213ab5982-23d8-4355-b04c-a3d1cf484ca3%22%7d

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, Ma- durai Email: manickam-mahendran@tce.edu Phone: 04522482240	Anna Univer- sity Nominee



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3	Dr.J.Hemalatha	Professor and Head Department of Physics National Institute of Technology, Tiruchirappalli hemalatha@nitt.edu 0431-2503800 / 2503803	Academic Council nominated BoS Members
4	Dr.K.Jayakumar	Former Professor, Department of Physics, Gandhigram Rural Institute (Deemed to be University), Gandhigram, Dindigul Kjkumar_gri@rediffmail.com 04512452371	

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



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6	Dr.K.M.Manikandan	Assistant Professor / Physics
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THE MINUTES:

The meeting is called for considering the Undergraduate Open elective syllabi, Approval of first BoS meeting minutes held on 7th August 2020 and Approval of list of experts for staff selection / Faculty performance appraisal and panel of external experts for question paper setting / Scrutiny / Valuation and practical Examinations

DISCUSSIONS:

1. Dr.S.Luna Eunice, Assistant Professor, Department of Chemistry welcomed the gathering and board of studies members of Physics & Chemistry.
2. Dr.K.M.Manikandan, Assistant Professor / Physics present the Minutes of the meeting of first Board of Studies meeting held on 7th August 2020, for the approval of BoS members. BoS members approved the minutes of meeting held on 7th August 2020.
3. Dr.A.Yelilarasi, Head & Associate Professor, Department of Physics present the 2020 – 2021 ODD SEM – Pedagogy Information to the BoS members. Points discussed are: As per the government instruction, due to the COVID-19 pandemic situation, the first set of first-year Autonomous students (2020-21), classes are held through Microsoft Teams Platform by using PPT, Videos, and live demonstrations. The Cycle tests and semester exams are conducted through online using the Hire mee platform. The practical classes are held online mode by using demonstration videos by faculty members and live classes. In February 2021 offline classes are started for students. Hands-on training were given to students for practicals and a Model examination was also conducted for internal assessment in the lab course. The semester practicals are held through offline mode with the presence of internal, external faculty members.
4. Dr.A.Yelilarasi, Head & Associate Professor, Department of Physics presents the open elective syllabus – OPH151 Nanotechnology for Engineers for B.E/B.Tech., 5th semester UG students offered by Department of Physics for the approval of BoS members.



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5. Dr,S.Murugesan, Madurai Kamaraj University, Chemistry board BoS member give some suggestions regarding the modifications of the syllabus. In the first unit he suggested including PVD and CVD techniques along with other synthesis techniques. He also suggested including fullerene and graphene based nanomaterials with carbon nanotubes in Unit-II. He feels Unit-IV is heavy and suggested to revise it. Dr.A.Bhaskaran also accepts the suggestions given for Unit- I by Dr.S.Murugesan. He also suggested removing the word Elemental composition in Unit-IV.
6. Dr.M.Mahendran gives some suggestions regarding the syllabus. The points suggested are:
 - The syllabus discuss the nanomaterials and not about the nanotechnology except Unit-V. So, the title may be changed as Nanomaterials for engineers. In Unit-I the title may be changed to Basics of Nanomaterials or Synthesis of Nanomaterials instead of Introduction to nanotechnology. Include some more preparation techniques in Unit-I.
 - He feels that the second unit deals with the nanocomposites not with core-shell nanoparticles.
 - In unit-III carbon nanotubes some basic introductory aspects like what is carbon? fullerene, graphene may be included. The title of Unit-III may be changed as carbon based nanomaterials or Carbon-based materials on a small scale. In the final part it is generally mentioned as applications, he suggested, specifically mentioning one or two applications of carbon nanotubes.
 - Mention specific title not the general term like nanosensors in Unit-V, mention Specifically any two nanosensors. He suggested some books for Nanomaterials. He will send the list of books later.
7. Dr.K.Jayakumar suggested that the best book for nanomaterial is the book written by Dutta. In unit-V he suggested including Semiconductor nanostructure-based Transistors.
8. Dr.J.Hemalatha suggested that the title may be changed as Nanoscience & Technology. She suggested including some introductory aspects of Nano like Nanoscale, Nanomaterials, surface effects of nanomaterials, Quantum confinement, Physical properties of nanomaterials in Unit –I.

In the synthesis technique, the vapour phase deposition must be specific either physical or chemical vapour deposition. She suggested to include some physical vapour deposition techniques like sputtering, electrospinning. Keep either sol-gel process or solvothermal technique. She feels Unit-II focused only



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on core-shell nanoparticles, there are very efficient nanomaterials are available, include them in the syllabus and change the course title as Nanomaterials. She suggested including quantum dots in Unit-V Nanodevices.

9. Dr.A.Yelilarasi, Head & Associate Professor, Department of Physics presents a list of experts for staff selection / Faculty performance appraisal and list of panel of external experts for question paper setting / Scrutiny / Valuation and practical Examinations for approval.
10. Dr.M.Mahendran suggested including some expert members from IIT's. He suggested arranging the list of expert members in order based on seniority or designation. He also suggested that the questions set by the expert members must be audited.
11. Dr.M.Hema. Associate Professor / Physics proposed the vote of thanks to all the external and internal experts of the Physics and Chemistry board. The meeting adjourned.

A handwritten signature in blue ink that reads 'Abhasgaram'.

Dr. A. BHASKARAN, PhD

Prof and Head
Dept of Applied Physics
Sri Venkateswara College of Engg
Sriperumbudur 602117

A handwritten signature in black ink that reads 'Dr. Yelilarasi'.

Dr.A.Yelilarasi

HOD/PHYSICS