VIGNAN'S
Foundation for Science, Technology & Research
UNIVERSITY
(Estd u/s 3of UGC Act of 1956)

DEPARTMENT OF SCIENCE & HUMANITIES
Division of Physics
Minutes of Board of Studies Meeting

The Board of studies (BoS) meeting to frame Ph.D. Course syllabus is held on 23-4-2016 at VFSTR university campus, Vadlamudi.
Members Present:

1. Dr. N. Srinivasu, BoS Chairman, Professor &HOD, Department of S & H, VFSTR, Guntur
2. Dr. M. Sai Shankar, Professor, Dept. of Physics, NIT Warangal
3. Dr. M. Sreenivasulu, Professor, Dept. of S&H, VFSTR(deemed to be University), Guntur
4. Dr. K. V. Madhuri, Associate Professor, Dept. of S&H, VFSTR(deemed to be University), Guntur

The following are the suggestions made,

1. The committee is greeted by Dr. M. Sreenivasulu, Professor of Physics and a brief appraisal of the proposed syllabi is given to the committee.

2. The Committee has suggested to implement a new course Glass Science to meet the state of the art.

3. Unit wise discussion as per the proposed syllabus in Glass Science course has been taken up and necessary modifications are incorporated.

4. The syllabus is finalized for the following courses

   a) Material Science & Engineering
   b) Instrumental Methods and Characterization Techniques
   c) Glass Science

1. Dr. N. Srinivasu, BoS Chairman N. Srinivasu
   (Professor, Dept. of S&H, VFSTR (deemed to be University), Guntur)

2. Dr. M. Sai Shankar M. Sai Shankar
   (Professor, Dept. of Physics, NIT Warangal)

3. Dr. M. Sreenivasulu
   (Professor, Dept. of S&H, VFSTR (deemed to be University), Guntur)

4. Dr. K. V.Madhuri
   (Associate Professor, Dept. of S&H, VFSTR (deemed to be University), Guntur)

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Division of Physics

Department of Science and Humanities

Recommendation of DRC members for pre-Ph.D courses

In the interest of proposing the PhD Programme course work in Physics, Doctoral Review Committee meeting was conducted at Division of Physics, Department of S & H, VFSTR deemed to be University on 06.01.2016. In the perspective of the research area of interest, the following Pre- PhD courses were finalized.

1. Material Science & Engineering
2. Instrumental Methods & Characterization Techniques
3. Glass Science.

Members Present:

Dr. N. Srinivasu, BoS Chairman,

Professor &HOD. N. Srinivasu

Dr. M. Sreenivasulu,

Professor

Dr. K. V. Madhuri,

Professor

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DEPARTMENT OF SCIENCE & HUMANITIES
Division of Physics
Minutes of Board of Studies Meeting

The Board of studies (BoS) meeting to frame Ph.D. Course syllabus is held on 14-7-2017 at VFSTR university campus, Vadlamudi.

Members Present:

1. Dr. N. Srinivasu, BoS Chairman, Professor &HOD, Department of S & H, VFSTR, Guntur
2. Dr. M. Sai Shankar, Professor, Dept. of Physics, NIT Warangal
3. Dr. M. Sreenivasulu, Professor, Dept. of S&H, VFSTR(deemed to be University), Guntur
4. Dr. K. V. Madhuri, Associate Professor, Dept. of S&H, VFSTR(deemed to be University), Guntur

The following are the suggestions made:

1. The committee is greeted by Dr. M. Sreenivasulu, Professor of Physics and a brief appraisal of the proposed syllabi is given to the committee.

2. Unit wise discussion as per the proposed syllabus in each course has been taken up and necessary modifications are incorporated.

3. The Committee has suggested to implement new coursesMaterials Science & Engineering and Condensed Matter Physics and Characterization techniques

4. Dr. M. Sai Shankar has suggested to include Band Theory of Solids as second Unit in Condensed Matter Physics and Characterization techniques

5. The committee has also suggested to include Biomaterials as fourth unit in Materials Science & Engineering to get acquaintance in Biomaterials

6. The syllabus is finalized for the following courses
   a) Material Science & Engineering
   b) Instrumental Methods and Characterization Techniques
   c) Glass Science
   d) Materials Science & Engineering
   e) Condensed matter Physics and characterization techniques

1. Dr. N. Srinivasu, BoS Chairman N. Srinivasu
(Professor, Dept. of S&H, VFSTR (deemed to be University), Guntur)

2. Dr. M. Sai Shankar M. Sai Shankar
(Professor, Dept. of Physics, NIT Warangal)

3. Dr. M. Sreenivasulu
(Professor, Dept. of S&H, VFSTR (deemed to be University), Guntur)

4.Dr. K. V. Madhuri
(Associate Professor, Dept. of S&H, VFSTR (deemed to be University), Guntur)

Recommendation of DRC members for pre-Ph.D courses

The doctoral review committee was held on 09-03-2017 to frame and revise Ph.D course work syllabus at division of physics, Department of S&H, VFSTR Deemed to be University, Guntur. The following courses have been finalized / recommended as the pre-Ph.D course content in the research areas of materials science, glass science and thin films.

1. Materials science and Engineering
2. Glass science
3. Vacuum and thin film technology
4. Instrumental methods and characterization techniques

Members Present:

Dr. N. Srinivasu, BoS Chairman, N Srinivasu

Professor &HOD.

Dr. M. Sreenivasulu,

Professor

Dr. K. V. Madhuri,

Professor

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DEPARTMENT OF SCIENCE & HUMANITIES
Division of Physics
Minutes of Board of Studies Meeting

The Board of studies (BoS) meeting to frame Ph.D. Course syllabus is held on 12-5-2018 at VFSTR university campus, Vadlamudi.
Members Present:

1. Dr. N. Srinivasu, BoS Chairman, Professor &HOD, Department of S & H, VFSTR, Guntur
2. Dr. M. Sai Shankar, Professor, Dept. of Physics, NIT Warangal
3. Dr. M. Sreenivasulu, Professor, Dept. of S&H, VFSTR(deemed to be University), Guntur
4. Dr. K. V. Madhuri, Professor, Dept. of S&H, VFSTR(deemed to be University), Guntur

The following are the suggestions made,

1. The committee is greeted by Dr. M. Sreenivasulu, Professor of Physics and a brief appraisal of the proposed syllabi is given to the committee.

2. The committee has recognized the importance of the present Ph.D Courses and their syllabus and suggested to continue without any modifications.

3. The finalized courses are as follows

   a) Material Science & Engineering
   b) Instrumental Methods and Characterization Techniques
   c) Glass Science
   d) Materials Science & Engineering
   e) Condensed matter Physics and characterization techniques

1. Dr. N. Srinivasu, BoS Chairman N. Srinivasu

(Professor, Dept. of S&H, VFSTR (deemed to be University), Guntur)

2. Dr. M. Sai Shankar M. Sai Shankar

(Professor, Dept. of Physics, NIT Warangal)

3. Dr. M. Sreenivasulu

(Professor, Dept. of S&H, VFSTR (deemed to be University), Guntur)

4.Dr. K. V. Madhuri

(Professor, Dept. of S&H, VFSTR (deemed to be University), Guntur)

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Division of Physics

Department of Science and Humanities

Recommendation of DRC members for pre-Ph.D courses

The members of doctoral committee of division of physics, department of S&H met on 05-02-2018 to review the Ph.D program courses in physics/materials science. The members have endorsed the following courses toward pre-Ph.D course work in the area of materials science.

1. Materials science and Engineering
2. Instrumental methods and characterization techniques
3. Glass science
4. Condensed matter physics and characterization techniques.

Members Present:

Dr. N. Srinivasu, BoS Chairman, N. Srinivasu

Professor &HOD.

Dr. M. Sreenivasulu,

Professor

Dr. K. V. Madhuri,

Professor

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DEPARTMENT OF SCIENCE & HUMANITIES
Division of Physics
Minutes of Board of Studies Meeting

The Board of studies (BoS) meeting to frame Ph.D. Course syllabus is held on 5-4-2019 at VFSTR university campus, Vadlamudi.
Members Present:

1. Dr. N. Srinivasu, BoS Chairman, Professor &HOD, Department of S & H, VFSTR, Guntur
2. Dr. M. SaiSankar, Professor, Dept. of Physics, NIT, Warangal
3. Dr. SakethAsthana, Associate Professor, Dept. of Physics, IIT, Hyderabad
4. Dr. M. Venkateswarlu, Scientist, Amar Raja Batteries, Tirupati
5. Dr. M. Sreenivasulu, Professor, Dept. of S&H, VFSTR(deemed to be University), Guntur
6. Dr. K. V. Madhuri, Professor, Dept. of S&H, VFSTR(deemed to be University), Guntur
7. Dr. J. N. Kiran, Associate Professor, Dept. of S & H, VFSTR(deemed to be University), Guntur
8. Dr. B. Naveen Reddy, Assistant Professor, Dept. of S&H, VFSTR(deemed to be University), Guntur

The following are the suggestions made,

1. The committee is greeted by Dr. M. Sreenivasulu, Professor of Physics and a brief appraisal of the proposed syllabus is presented to the committee.

2. We have included eight courses for Ph.D programme in Physics namely Quantum Physics for Nanostructures, Physics and Chemistry of Solids, Nano sensors, Carbon Nanomaterials, Physics of the Semiconductor Devices, Lithographic Techniques for Device fabrication, Nanomagnetism Fundamentals and Applications and Atomic and Molecular Spectroscopy

3. Unit wise discussion as per the proposed syllabus has been taken up and necessary modifications are incorporated.

4. Taking into consideration the comments of subject experts the following modifications are being offered in the curricula.

5. The committee has decided to take up the coursesQuantum Physics for Nanostructures, Physics and Chemistry of Solids, Nanosensors, Carbon Nanomaterials, Physics of the Semiconductor Devices, Lithographic Techniques for Device fabrication, Nanomagnetism Fundamentals and Applications and Atomic and Molecular Spectroscopy

6. Prof. M. Sai Shankar suggested including an Electronic Band Structure in Unit-3. The Band structure plays an important role in the quantum nanostructures and other members of the committee felt the same.

7. Dr. SakethAsthana has recommended to include the Structure of Matter in UNIT-1 in order to understand the Bonding thoroughly.

8. Prof. M. Sai Shankar and Dr. SakethAsthana have suggested incorporating the topics right from mechanical nanosensors to bionanosensors to understand the nanosensors applications in various fields.

9. The committee recommended incorporating other Carbon Based Nanomaterials in UNIT-5 to know the various forms of carbon nanomaterials.

10. The committee has felt that the arrangement of the topics in the Physics of the semiconductor devices course as per a standard text book.

11. Dr. SakethAsthana has recommended deleting the Introduction part in the UNIT-3 as it is familiar in undergraduate and post graduate level.

12. All the committee members have suggested incorporating X-ray lithography as X-ray studies are more familiar in graduate and undergraduate level.

13. Prof. M. Sai Shankar has recommended deleting the topics Magnetism of localized electrons on the atom in UNIT-2 because the topics are already studied.

14. Dr. SakethAsthana has suggested including the Nanoscale magnetism in UNIT-5. The Nanoscale magnetism is having vital role at device fabrication and working level.

15. The committee felt that the inclusion of the Subject Atomic and Molecular spectroscopy at Ph.D course is highly appreciable due to its wide importance in various subjects or fields.

16. The committee members suggested strongly the inclusion of Raman Spectroscopy in UNIT-4 in Atomic and Molecular spectroscopy as it has many useful applications.

1. Dr. N. Srinivasu, Chairman, BoS

(Dept, of S&H, VFSTR (deemed to be University), Guntur)

2. Dr. M. Sai Shankar

(Professor, NIT Warangal)

3. Dr. SakethAsthana

(Associate Professor, Dept. of Physics, IIT Hyderabad)

4. Dr. M. Venkateswarlu

(Scientist, Amara Raja Batteries, Titupathi)

5. Dr. M. Sreenicasulu

(Professor, Dept, of S&H, VFSTR (deemed to be University), Guntur)

6. Dr.K.V.Madhuri

(Professor, Dept, of S&H, VFSTR (deemed to be University), Guntur)

7. Dr. J. N. Kiran

(Associate Professor, Dept, of S&H, VFSTR (deemed to be University), Guntur)

8. Dr. B. Naveen Reddy

(Assistant Professor, Dept, of S&H, VFSTR (deemed to be University), Guntur)

Recommendation of DRC members for pre-Ph.D courses

The members of Doctoral committee assembled on 21.1.2019 to review and frame the syllabus related to Ph.D Programme in the Physics Division. The committee recommended the following courses in the areas of material science

1. Quantum Physics for Nanostructures
2. Physics & Chemistry of Solids
3. Nano sensors
4. Carbon nanomaterials
5. Physics of semiconductor process
6. Lithographic techniques for device fabrication
7. Nano magnetismfundamentals& applications
8. Molecular spectroscopy

Members Present :

1. Dr. N. Srinivasu
2. Dr. M.Sreenivasulu
3. Dr. J.N.Kiran
4. Dr. K.V.Madhuri