



SASTRA
DEEMED TO BE UNIVERSITY

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To: The Head of the Department
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Syllabus Validation Report

B. Sc. Physics (2020-21 on wards):

The B. Sc. Physics curriculum is well structured and organized in such a way that it covers the languages, core subjects, allied subjects, elective subjects, skill based subjects and practical courses (both for core and allied subjects). And the non-major elective subjects, extra departmental course and the add on courses are very useful for the B. Sc. Physics students. The credits, hours for class / lab and total marks are also appropriately distributed for the core / elective / practical / etc. courses. The course objectives and learning outcomes are well projected for the syllabi. The evaluation pattern and the Bloom's taxonomy based evaluation pattern proposed are good. The curriculum will be highly useful for the students to enter in to the higher education or job upon successful completion of the B. Sc. Physics degree programme.

Wherever possible, online recourse links can be included in the syllabi for reference.

M. Sc. Physics (2020-21 on wards):

The M. Sc. Physic curriculum is well structured and organized in such a way that it covers the core subjects, elective subjects, and practical courses. And the non-major elective subjects, such as, thin film technology, plasma physics and crystal growth are very useful for the students to proceed further in their research. During the third and fourth semesters, seminar (no credit) can be introduced, so that the students can refine their presentation skills, which will be highly useful for their career. The students can be encouraged to carry out their project work in reputed educational and research institutes or industries besides the facilities / expertise available at KASC. The course objectives and learning outcomes are well projected for the syllabi. The evaluation pattern and the Bloom's taxonomy based evaluation pattern proposed are good. The curriculum will be highly useful for the students to enter in to the higher education/research or job upon successful completion of the M. Sc. Physics degree programme.

Wherever possible, online recourse links can be included in the syllabi for reference.

Yours sincerely,

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VALIDATION REPORT OF THE SYLLABUS FOR THE YEAR 2020-2021 (UG PHYSICS)

- ❖ ESE and CIA components may have a split up of 50-50 marks or 60-40 marks respectively
- ❖ Course objectives and course outcomes are well defined and mapped with PSO's
- ❖ All the concepts of Physics are clearly covered in 11 Core papers and 2 elective papers
- ❖ Practical papers cover all the concepts of Physics
- ❖ Skill Based Subjects – Medical Instrumentation and Introduction to microprocessor defined in Part IV may be moved to Part III as the papers are related to major subject
- ❖ In Non-major elective papers Universal Human Values may be introduced
- ❖ To enhance the programming skills one or two papers may be introduced according to the industrial requirements like Python, R programming etc.,

VALIDATION REPORT OF THE SYLLABUS FOR THE YEAR 2020-2021 (PG PHYSICS)

- ❖ ESE and CIA components may have a split up of 50-50 marks or 60-40 marks respectively
- ❖ Knowledge level may be defined upto K5 and K6 for the core paper 2- Mathematical Physics
- ❖ Course Outcomes may be defined for all the levels (i.e) K5 and K6 also for all PG papers
- ❖ All the concepts of Physics are clearly covered in 12 Core papers and 2 elective papers
- ❖ Practical papers cover all the concepts of Physics
- ❖ Non-major elective papers covers the recent trends that are needed for the research
- ❖ Online courses on MOOC and Swayam encourages the student to up skill their knowledge in recent trends

Validation report by

J. Balavijayalakshmi

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