

DEPARTMENT OF PHYSICS

Action Plan 2019-20

Criterion I: Curricular Aspects

Department meetings are conducted once in a month, hard and soft copies of minutes are maintained. Course wise teaching plan is maintained and updated with already available format. Hard and soft copies of detailed association activity report are maintained. External lectures by prominent alumni and other renowned personalities are conducted at least twice in a semester. Department conducts Add-on program 'Assembling of LED Bulbs' to provide hands on experience in assembling and to make them aware of business opportunities. Subject related free online courses will be identified and advanced/ interested learners will be encouraged to do them. Facilities will be provided for those who have no internet access. A talk on gender equality will be conducted by department in this year. Opportunities will be made for selected students to do final project at university centers.

Criteria II: Teaching Learning and Evaluation

Advanced learners and slow learners will be identified. Slow learners will be given classes by advanced learners and teachers. Advanced learners will be given online quizzes. "Talent Search Examination by APT Kerala" is conducted every year at department. PG Entrance orientation/training class will be conducted this year.

Class monitors are given the charge of maintaining Log books for ICT classes. Every teacher will be assigned 20 - 30 students to mentor. A mentoring diary is maintained by each mentor describing activities done by them. Mentoring activities will be monitored by HOD. Subject related TED talks will be identified and exhibited for all students. Different virtual labs will be introduced to 1st year students. Student satisfaction survey will be conducted at department level too.

Criterion III: Research, Innovations & Extension

Research projects will be undertaken by faculty. Students are encouraged to apply for summer projects. Two of the four permanent faculties are research guides (Dr. Saji & Dr. Tina). One international publication and 3 conference proceedings would be published every year by department. An innovative extension activity: "Physics to school" will be conducted from this year to develop interest in Physics in school students. A 'Sky Watch Program' will be conducted by the department. Department has two MoUs for collaboration in research. Industrial visits are done every year and records are maintained.

Criterion IV: Infrastructure & Learning Resources

Physics related movies and documentaries will be collected and exhibited. Repository of project reports will be made. Soft copies of previous year question papers are made available to the students. Students are encouraged to prepare PPT's on novel topics and selected slides will be made available online.

Criterion V: Students Support and Progression

Dr. Rocily N Joseph Scholarship for Hindi is added from this year (along with 2 scholarships we already have). Bridge courses on practical is conducted for 1st year students every year. Students will be asked to submit their final project in LaTeXformat (necessary training will be given in this regard).Orientation class for final year students will be conducted by experts. Placement training will be conducted for final year students. Formation of student cabinet (6 students are selected from each year) is done from this year. Rejuvenation program for 2nd semester and 4th semester students will be arranged.

Criterion VII: Institution Values and Best Practices

Vicinity to MGU and CUSAT would be utilised by inviting Resource persons who visit these institutions to our department. Students are encouraged to attend seminars, exhibitions and openschools. 'Physics to School program', Add-on Program, Department Magazine, Digital Repositories, Sky Watch Program and Science Day Celebration are some of the best