

Physics Department

Faculty Profile

| Name | Experience in years | Qualifications | Specialisation |
|--|---------------------|-----------------------|-------------------------|
| Ms. D. Daruwalla Head of Department | 35 | M.Sc., M.Phil., D.H.E | Electronics |
| Dr. M. Deshpande | 18 | M. Sc., PhD,NET | Solid State Electronics |
| Mr. S. Dange | 15 | M. Sc., NET | Non linear dynamics |
| Ms. J. Mayekar | 10 | M.Sc., SET | Solid State Physics |
| Dr. Balakrishna | 3 | M.Sc, PhD | Electronics |
| Dr. Niyaz Ahmed K. C. | 1 | M.Sc., PhD | Physics |

Courses covered

Physics

- Mechanics and Thermodynamics I
- Vector Calculus I and Modern Physics
- Mathematical Physics, waves and oscillations
- Electricity and Electronics
- Mechanics and Thermodynamics II
- Vector Calculus II and Analog Electronics
- Applied Physics I
- Optics and Digital Electronics
- Quantum Mechanics
- Applied Physics II
- Mathematical, Thermal and Statistical Physics
- Electronics
- Atomic and Molecular Physics
- Electrodynamics
- Classical Mechanics
- Solid state Physics

- Nuclear Physics
- Special Theory of Relativity

- Courses covered (**Applied component:: Electronic Instrumentation**)
- Analog circuits, Instruments and Consumer appliances
- Digital Electronics, Microprocessor and it's applications, programming in C++

Co- curricular/ Value addition activities

- Exhibition: projects and posters
- Quiz and debate competition
- Guest lectures from eminent speakers in the field of science
- Field visits to research institutions
- Poetry writing
- Departmental magazine
- Discussion club
- Conduct of NGPE (National Graduate Physics Examination)
- Certificate course in Astronomy
- Robotics workshop

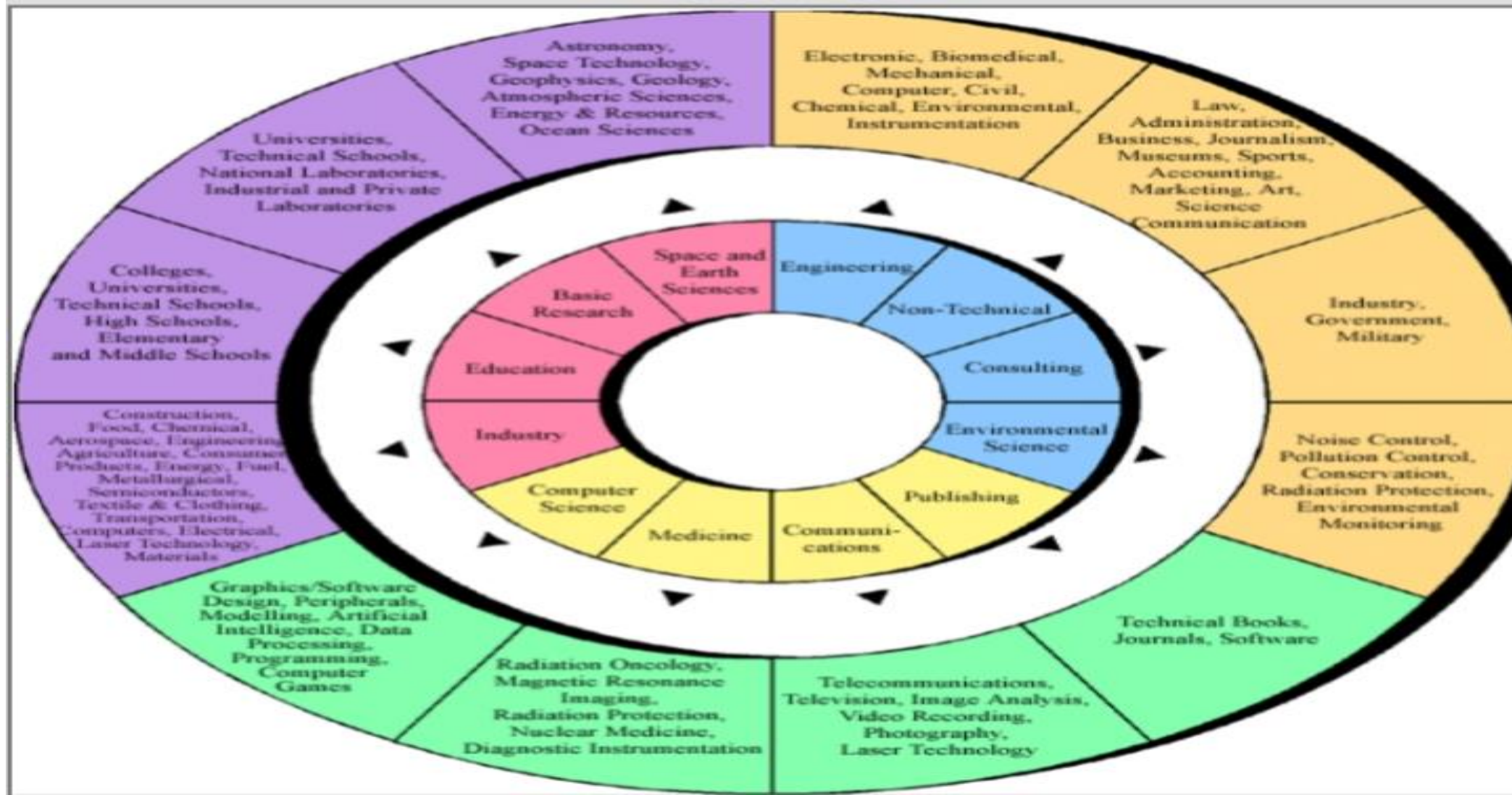
Unique features

- Our learner centric curriculum focuses on developing logical thinking, analytical skills, experimental learning skills as well as problem solving abilities
- Faculty is equipped with the latest innovations in teaching, learning and evaluation: use of simulations, tutorials, seminars in practicals, Google Classroom, Edmodo, Moodle
- Students are motivated to take up research projects
- Laboratories are periodically upgraded to provide a research environment
- The non-teaching faculty are encouraged to attend workshops to upgrade their technical skills for laboratory maintenance and handling of laboratory equipment
- Mentoring and guidance provided to students at all times

Importance

- Well designed syllabi approved by industry experts and eminent educationists
- Dynamic faculty
- Well equipped laboratories
- Physics society, under which a plethora of co-curricular activities is conducted

Opportunities



Future plans

- Career guidance from well placed alumni
- Preparing students for IIT JAM entrance examination in terms of providing guidance and relevant references
- Encouraging students to participate in summer and winter school programs in esteemed research institutes
- Intercollegiate workshop on machine learning for faculty
- Workshop on study abroad opportunities

THANK YOU