

12.2 Academic Requirements

The Ph.D. programme comprises of course work and research work. The aim of the course work is to strengthen the fundamental understanding in the subject and to prepare them for conducting research work. The minimum course credit a student has to register for the Ph.D. curricula is 16 (equivalent to 4 courses of 4 credits each). Additional course credit may be imposed by department to suit their requirements. Department wise minimum course credits are outlined below:

| Name of the Department | Minimum Course Credits |
|---|------------------------|
| Biological Sciences | 16 |
| Chemistry | 16 |
| Chemical Engineering | 16/24# |
| Earth and Environmental Sciences | 16 |
| * Name of the Department | Minimum Course Credits |
| Electrical Engineering and Computer Science | 16/32\$ |
| Mathematics | 24 |
| Physics | 24 |
| Humanities and Social Sciences | 16 |
| Economic Sciences | 24 |

The minimum course credits for students admitted with M.Tech./ M.E./M.S. in Chemical Engineering is 16. However, students admitted with M.Sc./M.S. degree in Natural Sciences having some experience in allied areas of Chemical Engineering or B.E./B.Tech. in Chemical Engineering have to complete a minimum of 24 course credits.

* \$ The minimum course credits for students admitted with M.Tech./ M.E./M.S./other relevant degrees (4+2 or higher)/IISERB BSMS in EC/CS/EE/IT and other relevant discipline is 16. However, students admitted with M.Sc./M.S. in Physics/ Mathematics or B.Tech./B.E./B.S. in EC/CS/EE have to complete 24 to 32 course credits as suggested by the DPGC committee.

Every Department should permit the student to register for courses outside the Department, if recommended by the thesis supervisor, for a maximum of 8 credits. Out of the minimum prescribed course requirements for a Ph.D. student, the student cannot register for more than 50% credits of the prescribed courses with the same instructor. After completion of the minimum prescribed courses, the above rule will not be applicable. The minimum course credits for students admitted in department of Earth and Environmental Sciences prior to AY: 2018-19-I semester is 24. For students who have completed their masters from reputed institutes such as IISERs, IITs etc., the Convener DPGC of the concerned Department can recommend an exemption of maximum 8 credits from this requirement, based on advanced (500/600 level) courses taken during BS-MS (Dual Degree)/Master's programme. Such an exemption will be done only upon the approval of DoAA. Ph.D. students will also have to register for a minimum of 40 research credits. Ph.D. students should register for a total minimum of 96 credits (coursework and research work). Besides the above-mentioned minimum requirements, a Department may prescribe some additional credits of courses/thesis work approved by the Senate. The Senate may also allow Ph.D. students to credit courses in other academic Institutions. Students conducting a part of their research work at other academic institutions may seek residence and research credits for the time spent outside. However, such work must be carried out under the guidance of IISER Bhopal faculty and his/her thesis supervisor will evaluate the progress of this work. Prior to undertaking work outside IISER Bhopal, the student must obtain consent from the DPGC and approval from DoAA.