



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान भोपाल

शैक्षणिक कार्यालय

Notification

IISERB/DOAA/2019/325

July 23, 2019

Sub: Restructuring the Pre-major Curricula.

Ref: Senate 54 (Agenda Item No. 54.4) dated July 22, 2019.

The Senate in its 2019-2/54th meeting has approved to restructure the pre-major curriculum. This will be implemented students opting for pre-major in AY 2019-20 onwards.

- During the pre-major year, students from Natural Science Stream will have to register for 20/21 credits per semester. No overload courses will be permitted during the pre-major year.
- During the pre-major year, departments under Natural Science Stream will offer mandatory courses of 6/7 credits per semester and will not impose any mandatory course(s) from other department.
- Students from Engineering Science Stream will have to register for 19/21 credits per semester. No overload courses will be permitted during the pre-major year.
- Pre-major curriculum for Economic Sciences remains unchanged.
- Students from the Natural Science Stream will have to mandatorily register for courses from three disciplines within their stream.
- Students from Engineering Science Stream will have to mandatorily register for all the prescribed courses by all disciplines of their stream.
- The Maximum number of students permitted for pre-Major in a discipline is 150.
- The Maximum number of students permitted to major (beginning 3rd year of programme) in a discipline is 50.
- The allotment for both Major and Pre-Major Discipline will be purely on CPI basis subject to fulfilling the eligibility criteria.

Dean, Academic Affairs

Enclosure: 1. Revised Curriculum of Pre-Major Year for Natural Science and Engineering Science Streams.

To,

1. All First and Second Year Students via E-mail.
2. All Heads of Academic Departments via E-mail.
3. Notice/Website.

Curriculum of Pre-Major Year w.e.f. AY 2019-20

Semester III

Course No	Course Title	Credits
Natural Science Stream		
<i>Department of Biological Sciences</i>		
BIO201	Biology III: Fundamentals of Molecular Biology	3
BIO203	Biology V: Diversity of Life I	3
BIO205	Biology Laboratory I	1
<i>Department of Chemistry</i>		
CHM211	Basic Organic Chemistry II	3
CHM221	Basic Physical Chemistry	3
CHM223	Chemistry Laboratory II	1
<i>Department of Earth and Environmental Sciences</i>		
EES201	Atmospheric Sciences	3
EES205	Oceanography	3
EES207	Introduction to Earth and Environmental Sciences Laboratory	1
<i>Department of Mathematics</i>		
MTH201	Multivariable Calculus	3
MTH203	Introduction to Groups and Symmetry	3
<i>Department of Physics</i>		
PHY201	Waves and Optics	3
PHY205	General Physics Laboratory II	1
PHY209	Electromagnetism	3
Minimum Credits to be Registered		20
Engineering Science Stream		
CHE201	Engineering Mechanics (Solid and Fluid)	3
CHE205	Chemical Engineering Thermodynamics	3
ECS201	Discrete Mathematics I	3
ECS203	Basic Electronics	3
MTH201	Multivariable Calculus	3
*** **	Open Elective	3
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Minimum Credits to be Registered		21

Semester IV

Course No	Course Title	Credits
Natural Science Stream		
<i>Department of Biological Sciences</i>		
BIO202	Biology IV: Basic Genetics	3
BIO204	Biology VI: Diversity of Life II	3
BIO206	Biology Laboratory II	1
<i>Department of Chemistry</i>		
CHM204	Basic Inorganic Chemistry	3
CHM206	Chemistry Laboratory III	1
CHM222	Classical Thermodynamics	3
<i>Department of Earth and Environmental Sciences</i>		
EES202	The Evolution of the Earth	3
EES208	Geochemistry	4
<i>Department of Mathematics</i>		
MTH202	Probability and Statistics	3
MTH204	Complex Variables	3
<i>Department of Physics</i>		
PHY202	Physics by Numerical Analysis	3
PHY204	General Properties of Matter	3
PHY206	General Physics Laboratory-III	1
Minimum Credits to be Registered		20
Engineering Science Stream		
CHE204	Chemical Process Calculation	3
CHE206	Introduction to Chemical Engineering Laboratory	1
CHE208	Chemical Process Technology	3
ECS202	Data Structures and Algorithms	3
ECS204	Introduction to Signal Processing and Systems	3
MTH202	Probability and Statistics	3
*** **	Open Elective	3
Minimum Credits to be Registered		19