

NORTH MAHARASHTRA UNIVERSITY, JALGAON
EQUIVALENT COURSES OF F.Y., S.Y.B.Sc. AND M.Sc.

PHYSICS

CLASS

OLD COURSES

NEW COURSES

F.Y.B.Sc.	<u>Paper-I Section-I</u> Mechanics and properties of Matter.	<u>Paper-I Section-I</u> Mechanics and properties of Matter.
	<u>Paper-I Section-II</u> Mathematical Physics.	<u>Paper-I Section-II</u> Mathematical Physics.
	<u>Paper-II Section-I</u> Elementary Kinetic Theory Heat and Thermodynamics	<u>Paper-II Section-I</u> Elementary Kinetic Theory Heat and Thermodynamics.
	<u>Paper-I Section-II</u> Electricity and Electromagnetic Fields.	<u>Paper-II Section-II</u> Electricity and Electromagnetic Fields.
S.Y.B.Sc.	<u>Paper-I Section-I</u> Waves and Oscillations	<u>Paper-I Section-I</u> Waves and Oscillations.
	<u>Paper-I Section-II</u> Optics	<u>Paper-I Section-II</u> Optics
	<u>Paper-II Section-I</u> Modern Physics	<u>Paper-II Section-I</u> Modern Physics.
	<u>Paper-II Section-II</u> Electronics I or Instrumentation I or space and Matereology I	<u>Paper-II Section-II</u> Electronics I or Instrumentation I or Space and Metereology-I
M.Sc.	PHY 1 UT 01	PHY 101
	PHY 1 UT 02	PHY 102
	PHY 1 UT 03	PHY 103
	PHY 1 UT 07	PHY 104
	PHY UP 01	PHY 105
	PHY 2 UT 04	PHY 201
	PHY 2 UT 05	PHY 202
	PHY 2 UT 06	PHY 203
	PHY 2 UT 09	PHY 403A
	PHY UT 10	PHY 204
	PHY UT 11	PHY 303A
	PHY UT 12	PHY 302
	PHY UT 13	PHY 402
	PHY UT 14	PHY 403B
	PHY UT 15	PHY 303B
	PHY 2 UP 02	PHY 205
	PHY 3 UP 03	PHY 304
	PHY 3 UP 05	PHY 305
	PHY 4 UT 03	PHY 401
	PHY 4 UT 04	PHY 404
PHY UP 05	PHY 405	

INORGANIC CHEMISTRY

EQUIVALENT COURSES OF M.Sc. PART-II

Class	<u>OLD COURSES</u>	<u>EQUI. CURRENT COURSES/PAPER</u>
M.Sc. II	<u>Compulsory Courses</u>	
Sem. III	CH-330 Co-ordination Chemistry	CH-330 Co-ordination Chemistry.
	CH-332 Organometallic Chemistry and Catalysis	CH-332 Organometallic Chemistry and Catalysis
	CH-331 Structural Inorganic Chemistry	No equivalent new courses can be assigned to
	<u>Optional Paper</u>	Old CH-331, and Optional Courses CH-321, CH-322, CH-323, CH-324, CH-325, CH-326, CH-327 and CH-328.
	CH-321 Ionisation Spectroscopic Methods.	Hence question paper be set on old courses only.
	CH-322 Inorganic Spectroscopy and magnetism I.	
	CH-323 Theoretical Inorganic Chemistry I	
	CH-324 Inorganic Biochemistry I	
	CH-325 Material Science-I	
	CH-326 Industrial Inorganic Analysis-I	
	CH-327 Current Topics in Inorganic Chemistry-I	
	CH-328 Corrosion.	
M.Sc. II	<u>Compulsory Courses.</u>	
Sem. IV	CH-430 Co-ordination Chemistry-III	CH-430 Co-ordination Chemistry-II
	CH-431 Physical Methods of Inorganic Chemistry	CH-431 Physical Methods in Inorganic Chemistry.
	<u>Optional Papers.</u>	No equivalent new courses can be assigned to
	CH-422 Inorganic Spectroscopy and Magnetism-II	Old CH-422, CH-423, CH-424, CH-425, CH-426, CH-427 and CH-428. Hence question papers be set on old courses only.
	CH-423 Theoretical Inorganic Chemistry-II	
	CH-424 Inorganic Biochemistry-II	
	CH-425 Material Science-II	
	CH-426 Industrial Inorganic Analysis-II	
	CH-427 Current Topics in Inorganic Chemistry-II	
	CH-428 Heterogenous Catalysis.	

EQUIVALENT COURSES OF M.Sc. PART-II

PHYSICAL CHEMISTRY

Equivalent Current Courses/Papers.

Class Old Courses/Paper

M.Sc.II Compulsory Courses

Sem.III CH-310 Quantum Chemistry
 CH-311 Nuclear and Radiation Chemistry
 CH-312 Surface Chemistry & Electrochemistry

CH-310 Quantum Chemistry and Statistical Thermodynamics
CH-311 Nuclear Chemistry and Solid state Chemistry.
CH-411 Surface Chemistry & Electrochemistry.

Optional Courses.

- * CH-301 Chemistry of Macromolecules
- * CH-303 Polymer Chemistry-I
- CH-300 Problem Solving
- CH-302 Physico Chemical Methods of Analysis

CH-312 Polymer Chemistry-I
CH-312 Polymer Chemistry-I

No equivalent new Courses can be assigned to Old
CH-300 & CH-302. Hence question papers be set on
Old courses only.

M.Sc.II Compulsory Courses.

Sem.IV CH-410 Molecular Structure
 CH-411 Statistical Thermodynamics, Phase
 Rule and Solid state Chemistry.

CH-410 Molecular Structure.
CH-310 Quantum Chemistry and Statistical Thermodynamics

Optional Courses.

- * CH-400 Special Topics in Bonding Spectroscopy
- * CH-401 Special Topics in Surface Chemistry
- * CH-402 Special Topics in Electrochemistry
- * CH-403 Polymer Chemistry-II
- * CH-404 Special Topics in Nuclear &
 Radiation Chemistry.

CH-410 Molecular Structure.
CH-411 Surface Chemistry and Electrochemistry.
CH-411 Surface Chemistry and Electrochemistry.
CH-412 Polymer Chemistry-II
CH-311 Nuclear Chemistry & Solid State Chemistry.

* - Departmental Courses.