

Course Type	Course Code	Name of Course	L	T	P	Credit
DP4	NGLC215	Petrology Practical	0	0	2	1
Course Objective						
The students will learn to identify rocks in hand specimen and thin sections.						
Learning Outcomes						
Upon successful completion of this course, students will be able to:						
<ul style="list-style-type: none"> • Learn identification of rocks in hand specimen • Learn igneous and metamorphic textures • Learn sedimentary textures 						

Unit No.	Topics to be Covered	Lecture Hours	Learning Outcome
1	Identification of igneous, metamorphic and sedimentary rocks in hand specimen	2	Megascopic identification of natural rock samples
2	Petrographic study of textures of igneous rocks	4	Understanding of textures of igneous rocks.
3	Petrographic study of textures of metamorphic rocks	4	Understanding of textures of metamorphic rocks.
4	Petrographic study of textures of sedimentary rocks	3	Understanding of textures of sedimentary rocks.
5	Practical Examination	1	
	Total	14	

Textbooks:

1. Best, M.G., 2003. *Igneous and Metamorphic Petrology*, Blackwell Publishing; 729 p.
2. Winter, J.D., 2014. *Principles of Igneous and Metamorphic Petrology*, PHI Learning Private Limited, Delhi; 702 p.

Reference Books:

1. Philpotts, A.R., Ague, J.J., 2009. *Principles of Igneous and Metamorphic Petrology*, Cambridge University Press, New York; 684 p.
2. Sam Boggs, Jr., 2009. *Petrology of Sedimentary Rocks*, Cambridge University Press; 600 p.