

Time Table for Two week Science Academy Refresher Course on

“Crustal Strength, Rheology and Seismicity”

15-26 May, 2017 at Executive Development Centre (EDC), IIT(ISM) Dhanbad-826004

Day / Date	9:00 – 10:30		10:45 – 12:15		14:15 – 15:45		16:00 – 17:30
15.05.2017 (Monday)	Inaugural Session	Tea Break	Academy activities including Science Education Programme TDM	Lunch Break	Rheology: Historical perspective TDM	Tea Break	Rheological Property of Minerals under deep Mantle Condition AKG
16.05.2017 (Tuesday)	Thermal Convective Cycle within Mantle AKG		Rheology in Mineral Deposits and Environment TDM		Concept of Co-ordination Numbers AKG		Olivine AKG
17.05.2017 (Wednesday)	Pyroxene AKG		Pyroxene AKG		Characteristics of Intra- and inter-plate earthquake PKK		Basics of Strain Analysis SM
18.05.2017 (Thursday)	Basic Concept of Stress DM		Demonstrations on Stress Analysis DM		Basic Concept of Stress DM		Demonstrations on Stress Analysis DM
19.05.2017 (Friday)	State of Stress in Earth's Crust DM		Demonstrations on State of Stress in Earth's Crust DM		State of Stress in Earth's Crust DM		Demonstrations on State of Stress in Earth's Crust DM
20.05.2017 (Saturday)	Rheology of Rocks DM		Demonstrations on Rheology of Rocks DM		Rheology of Rocks DM		Melilite AKG
21.05.2017 (Sunday)	Local Field Excursion						

AKG: Prof. AK Gupta; TDM: Prof. TD Mahabaleswar; DM: Prof. D. Mukhopadhyay; SM: Prof. S Mohanty; PKK: Prof. PK Khan

Course coordinators:

Prof. S. Mohanty

Department of Applied Geology

Dr. M. K. Singh

Department of Applied Mathematics

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22.05.2017 (Monday)	Seismotectonism of the Indian Subcontinent in the light of Seismic Hazard and Risk SN	Tea Break	Seismotectonism of the Indian Subcontinent in the light of Seismic Hazard and Risk SN	Lunch Break	Geological formations and their characteristics MKS	Tea Break	Deformation path concepts in strain analysis: Applications for study of ductile shear zones SM
23.05.2017 (Tuesday)	Amphibole AKG		Geotherm and the crustal strength in continental area PKK		Mica AKG		Crustal Strain in Indian Plate Interior SM
24.05.2017 (Wednesday)	Garnet AKG		Geotherm and the crustal strength in oceanic area PKK		Quartz and feldspar AKG		Demonstration of measurement of rheological properties KS
25.05.2017 (Thursday)	Internal structure of Crust, Mantle and Core with respect to seismic discontinuity AKG		Earthquake activities based on crustal strength and rheology variation PKK		Mathematical Modeling Approaches MKS		Sedimentary basin development: rheological approach SM
26.05.2017 (Friday)	Rheological influence on mode of deformation in sedimentary basins MKM		Rheological variations in sedimentary basins and development of overpressure regimes SM		Group Discussion		Valedictory

AKG: Prof. AK Gupta; SN: Prof. Shankar Nath; SM: Prof. S Mohanty; PKK: Prof. PK Khan; MKS: Dr. MK Singh; MKM: Dr. M.K. Mukherjee; KS: Dr. K. Sarkar

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