

## CHAPTER 18

### GEOLOGY

#### Doctoral Theses

201. ARUCHE (K Manini)  
**Soil-Geomorphic Variations of Gangetic Plains in Response to Late Quaternary Climatic Changes.**  
Supervisor : Prof. Pankaj Srivastava  
Th 21094

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1. Introduction 2. Methodology 3. Soil geomorphic analysis and mapping 4. Micromorphology of the IGP soils 5. Bulk geochemistry of the IGP soils 6. Discussion and conclusions. References.

202. BISWAS (Paromita)  
**Provenance and Paleoclimatic Studies off the Coast of East Antarctica Near Wilkes Land.**  
Supervisor : Dr. N.C. Pant  
Th 21093

*Contents*

1. Introduction 2. Area of investigation and sample description 3. Provenance inferences from heavy minerals 4. Clay mineralogical studies and paleoclimatic inferences 5. Microtexture of Quartz 6. Geochemistry 7. Summary and Conclusion. References. Appendix

203. JHA (Surendra Kumar)  
**Compositional Studies on Clays and Organic Matter and Their Relevance to Depositional Mechanism and Palaeoenvironmental Control Over Uranium Mineralization in Bijawars of the Sonrai Basin.**  
Supervisor : Prof. J P Shrivastava  
Th 21092

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1. Introduction 2. Geology of the area 3. Clay mineralogy

4. Mineral chemistry of clys 5. Bulk geochemistry of clays 6. Organic geochemistry 7. Discussion 8. Conclusions. References and appendix.

204. JOSHI (Kumar Batuk)  
**Petrological, Geochemical and U-Pb Zircon Geochronological Studies of the Bundelkhand Granitoid Complex, Central India : Constraints on Archean Crustal Evolution.**  
 Supervisor : Prof. Talat Ahmad and Dr. Ashima Saikia  
Th 21271

*Contents*

1. Introduction and Geology 2. Analytical techniques, methodology and results 3. Field observations and petrography 4. Mineral chemistry 5. Classification and major element geochemistry 6. Trace elemental geochemistry 7. SIMS U-Pb zircon geochronology 8. Discussion and conclusion 9. References and appendices.

205. MERAJ ALAM  
**Geochemistry and Petrogenesis of Mafic Magmatic Rocks of Bhandara-Balaghat Granulite (BBG) Belt, Central Indian Tectonic Zone (CITZ), Central India.**  
 Supervisor : Prof. Talat Ahmad  
Th 21091

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1. Introduction 2. Field observation and petrography 3. Element geochemistry and classification 4. Trace element geochemistry 5- Rare earth element geochemistry 6. Isotopic studies of BBG belt 7. Discussion and conclusion. References. Appendices.

206. SAMOM JWELLYS DEVI  
**Geochemistry and Petrogenesis of Mafic Magmatic Rocks of Gwalior Basin.**  
 Supervisor : Prof. Talat Ahmad  
Th 21095

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1. Introduction 2. Regional geology, field observations and petrography 3. Methodology, analytical techniques and results 4. Geochemistry 5. Petrogenesis 6. Isotope geochemistry 7. Tectonic setting, Discussion and Conclusion. References. Appendices.

## M.Phil Dissertations

207. AADHISESHAN K. R.  
**Petrology and Geochemistry of Mafic Magmatic Enclaves from the Central Part of the Archean Closepet Granite, Dharwar Craton, Southern India.**  
Supervisor : Prof. M. Jayananda
208. DISHA KUMARI  
**Groundwater Quality Assessment in Parts of Lower Yamuna Basin.**  
Supervisor : Dr. Shashank Shekhar
209. NAIR (Aravind S.)  
**Geomorphic Analysis of Tectonic Deformation using Remote Sensing and GIS, Markanda River Basin, Garhwal Himalayas.**  
Supervisor : Dr. Vikrant Jain
210. PANDEY (Rajesh)  
**Geomorphic Evolution of Mohand Range and its Control on Geomorphology of Adjoining Idogangetic Plain.**  
Supervisor : Dr. Vimal Singh