

# **Department of Mining Engineering**

## **IIT (BHU) Varanasi**

Broad Areas/Syllabus for Ph.D. Admission Test, December 2017

1. Mining Geology,
2. Underground Mine Planning,
3. Surface Mine Planning,
4. Mining Methods,
5. Operations Research,
6. Data Analytics,
7. Mining Machinery,
8. Mines Safety Engineering,
9. Clean Coal Technology,
10. Mine Environment, Legislation and Safety,
11. Mineral Processing,
12. Mine Management and Economics,
13. Rock Mechanics and Ground Control,
14. Basics of Computer Programming,
15. Mine Rehabilitation and Resettlement
16. Application of Computers in Mining
17. Application of GIS in Mining