

**DEPARTMENT OF MINING ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY (ISM) DHANBAD**

Ph.D completed as on October 2017

Sl. No	Name of the candidate	Date of Award	Guide(s)	Title of the thesis
1	Tribhuwan Nath Singh	14-02-1981	Prof R D Singh & Bhagwant Singh, CMRS	A STUDY OF THE BEHAVIOUR OF GROUND DUE TO MINING THICK COAL SEAMS BY EQUIVALENT MATERIAL MODELS
2	N M Raju	29-08-1981	Prof A K Ghosh	DESIGN OF ROOF-BOLTING SYSTEMS-INVESTIGATIONS IN INDIAN MINES
3	Sanjay Kumar Ghosh	05-06-1984	Prof S P Banerjee & External, CMRS	A STUDY OF AIR POLLUTION INCLUDING TOXIC TRACE ELEMENTS IN AN INDIAN COALFIELD AND ITS LIKELY IMPACT ON INCIDENCE OF DISEASES
4	R T Deshmukh	04-07-1984	Prof O P Verma & Prof R D Singh	OPTIMAL PLAN FOR EXPLOITATION OF IRON ORE IN INDIA BY 2000 AD
5	Mahendra Narayan Das	22-01-1985	Prof S K Bordia	A PILLAR STRENGTH APPROACH EMPLOYING A NEW TRIAXIAL FAILURE CRITERION FOR ROCK MASSES
6	Vellanky Venkateswarlu	08-08-1987	Prof A K Ghosh & Dr N M Raju, CMRS	GEOMECHANICS CLASSIFICATION OF COAL MEASURE ROCK VIS-À-VIS ROOF SUPPORTS
7	Chiranjib Bandopadhyay	18-02-1988	Prof A K Ghosh, Dr B Singh & Dr P. R. Shenoy, CMRS	AN ANALYSIS FOR STABILITY OF PARTING BETWEEN CONTIGUOUS PILLAR WORKINGS
8	N K Khandelwal	20-11-1989	Prof B K Mazumdar	SPOIL DUMP BEHAVIOUR IN OPENCAST MINES
9	Pramod Kumar Arya	10-12-1990	Prof S P Banerjee & Dr D N Thakur, CMRS	STUDIES INTO THE BIODEGRADATION OF METHANE & ITS APPLICATION FOR DEGASIFICATION IN COAL MINES
10	Mohammad Jawed	27-08-1991	Prof D K Sinha	OPTIMIZATION OF COKING COAL MINING SYSTEM - UNDER INDIAN ENVIRONMENT
11	Bijay Kumar	24-07-1992	Prof A K Ghosh & N C Saxena, CMRS	MECHANICS OF GROUND SUBSIDENCE IN INDIA COALFIELDS
12	Baldev Singh	28-10-1992	Prof P Bandopadhyay & Dr S K Roy, CFRI	BENEFICIATION & PROCESSING OF MONTMORILLONITE TYPE OF CLAYS & THEIR APPLICATION AS

				CATALYST FOR ORGANIC CHEMICAL TRANSFORMATION
13	Chandra Nath Ghosh	27-01-1994	Prof A K Ghose & Dr A Sinha, CMRS	IMPROVED COAL MINE ROADWAY SUPPORT DESIGN INVESTIGATIONS ON PREDICTION OF ROOF CONDITIONS AND SUPPORT EFFICIENTLY THROUGH OBSERVATION APPROACH
14	Parijat De	29-09-1994	Dr P K Banik & Prof J L Chakraborty, BE College, Howrah	PLANNING STRATEGIES FOR COKING COAL DEVELOPMENT IN INDIA SYSTEMS DESIGN FOR UNDERGROUND COKING COAL MINES
15	D C Panigrahi	29-09-1994	Prof S P Banerjee & M L Gupta, CMRS	SIMULATION OF HEAT AND MOISTURE TRANSFER IN MECHANISED LONGWALL FACES OF INDIAN COAL MINES
16	Phalguni Sen	09-02-1995	Prof B K Mozumdar	COMPUTER AIDED DESIGN OF OPEN PIT SLOPES
17	Samir Kr Das	14-03-1995	Prof K S Ghosh	OPTIMIZED SELECTION OF POWERED SUPPORTS IN MECHANISED COAL MINES IN INDIA
18	Murari Mohan Bhattacharyya	02-05-1996	Prof. S P Banerjee	STUDIES ON FUME CHARACTERISTICS OF EXPLOSIVES UNDER LABORATORY AND FIELD CONDITIONS
19	V.M.S.R. Murthy	26-02-1997	Prof. A K Ghose	PRIORITIES FOR ROADWAYS DEVELOPMENT IN INDIAN COAL INDUSTRY – A SYSTEMS DEVELOPMENT APPROACH
20	Manoj Kumar Singh	19-11-1997	Prof. D C Panigrahi	SIMULATION OF ENVIRONMENTAL CONDITIONS IN MINE VENTILATION NETWORKS USING LINEARISED FLOW EQUIPMENT
21	Vinod Kumar Saxena	17-06-1999	Prof. D C Panigrahi	INVESTIGATION INTO SPONTANEOUS COMBUSTION CHARACTERISTICS OF COAL SEAMS WITH SPECIAL REFERENCE TO JHARIA COALFIELD
22	Pramod Kumar Rajmeny	02-03-2000	Prof. U K Singh	DEVELOPMENT OF EMPIRICAL MODELS PREDICTING ROCK MASS FAILURE AROUND OPEN STOPES AND THEIR APPLICATION IN EXTRACTING MARGINAL GRADE DEPOSITS
23	Arvind Kumar Mishra	01-08-2000	Prof. R N Gupta	EVALUATION AND DESIGN OF BLAST USING HIGH SPEED VIDEO CAMERA IN COAL MEASURE ROCKS
24	Rajendra Yerpude	01-08-2000	Prof. P K Banik	TECHNO-ECONOMIC APPRAISAL OF UNDERGROUND COAL MINING PROJECTS

25	Harinder Reddy Anireddy	15-01-2001	Prof. B K Kejriwal	DEVELOPMENT OF SELECTION METHODOLOGY OF ROCK REINFORCEMENT SYSTEMS FOR COAL MEASURE STRATA
26	Debi Prasad Tripathy	10-06-2002	Prof. D C Panigrahi and Prof. Gurdeep Singh	ENVIRONMENTAL QUALITY ASSESSMENT IN SOME FIRE AREAS OF JHARIA COALFIELD –
27	A K Chakraborty	17-10-2002	Prof. R N Gupta	DEVELOPMENT OF PREDICTIVE MODELS FOR OPTIMUM BLAST DESIGN IN MINE ROADWAYS AND TUNNELS UNDER VARIOUS ROCK MASS CONDITIONS
28	Ashim Kumar Sinha	28-03-2003	Prof. S B Srivastava	DEVELOPMENT OF DESIGN GUIDE LINE AND STRATA CONTROL STANDARD IN MULTIPLE SEAM WORKINGS WITH THIN PARTING IN INDIAN COAL MINES
29	Jagdish Kumar Mahnot	07-11-2003	Prof. U K Singh	FORMULATION OF OPTIMUM INVESTMENT DECISION MODEL FOR ECONOMIC EVALUATION OF MINING VENTURE
30	Ram Madhab Bhattacharjee	09-01-2004	Prof. D C Panigrahi	AN INVESTIGATION INTO PILLAR FIRE PROBLEM IN BOARD AND PILLAR METHOD OF MINING IN RANIGANJ COALFIELD AND CATEGORISATION OF PILLARS WITH RESPECT TO THEIR PRONENESS TO SPONTANEOUS TO HEATING
31	Prof. Sib Nath Mukherjee	09-01-2004	Self	OPTIMIZATION OF PARAMETERS OF CUTTER DRUM DESIGN FOR LONGWALL FACE
32	Himanshu Bhushan Sahu	08-04-2004	Prof. D C Panigrahi	INVESTIGATION INTO SPONTANEOUS HEATING CHARACTERISTICS AND AN APPROACH FOR CLASSIFICATION OF COAL SEAMS WITH SPECIAL REFERENCE TO MAHANADI COALFIELDS
33	Braj Kishore Sah	28-03-2005	Prof. S B Srivastava	THE EFFECTS OF CHEMICALS ON THE RHEOLOGY OF COAL WATER SLURRY AND ITS TRANSPORTATION THROUGH HORIZONTAL PIPELINES
34	Harsh Vardhan	24-08-2006	Dr N C Karmakar and Prof. Y V Rao, NIT , Surathkal	ASSESSMENT OF MACHINE GENERATED NOISE IN OPENCAST MINES AND DEVELOPMENT OF SUITABLE MAINTENANCE GUIDELINES FOR ITS ATTENUATION.

35	Jai Krishna Pandey	15-01-2007	Prof. D C Panigrahi and Dr G Udayabhanu	A STUDY ON CHROMIUM CONTAMINATION IN OPENCAST CHROMITE MINE ENVIRONMENT AND DEVELOPMENT OF A METHOD OF CONTROL.
36	C Sawmliana	21-02-2007	Dr VMSR Murthy and Sri P Pal Roy, CMRI	AN INVESTIGATION INTO THE BLAST DESIGN PARAMETERS FOR RINGHOLE BLASTING AND INDUCED BLASTING IN BLASTING GALLERY METHOD OF UNDERGROUND COAL MINES.
37	Murli Dhar Yadav	21-02-2007	Prof. D C Panigrahi, Dr G Udayabhanu and Sri P P Singh, BCCL	A STUDY OF DIFFERENT FIRE RETARDANTS AND SEALANTS FOR PREVENTING AND CONTROLLING FIRES IN INDIAN COAL MINES.
38	Gautam Banerjee	21-11-2007	Prof. S B Srivastava & Dr P R Sheorey, CIMFR, Dhanbad	NUMERICAL MODELLING STUDIES FOR LONGWALL ROOF BEHAVIOUR.
39	Gauri Shankar Prasad Singh	07-07-2008	Prof. U K Singh	CAVABILITY ASSESSMENT AND SUPPORT LOAD ESTIMATION FOR LONGWALL WORKINGS IN INDIA.
40	Kaushik Dey	13-08-2008	Dr VMSR Murthy	INVESTIGATION OF BLAST INDUCED ROCK DAMAGE AND DEVELOPMENT OF PREDICTIVE MODELS IN HORIZONTAL DRIVAGES
41	Mangalpady Aruna	19-12-2008	Dr N C Karmakar & Prof. Y V Rao, NIT, Karnataka	EVALUATION OF ILLUMINATION SYSTEM IN OPENCAST MINE AND DEVELOPMENT OF OPTIMUM DESIGN PARAMETERS.
42	R Sundar Singh	07-12-2012	Prof VMSR Murthy & Prof. Gurdeep Singh	DEVELOPMENT OF PLANNING STRATEGIES FOR MINE CLOSURE WITH SPECIAL REFERENCE TO ECOLOGICALLY FRAGILE IRON ORE MINES
43	Ritesh D Lokhande	04-01-2013	Prof. VMSR Murthy & Dr V Venkateswarlu, NIRM (Ext)	AN INVESTIGATION INTO THE CAUSES OF POT-HOLE SUBSIDENCE AND ITS PREDICTION IN UNDERGROUND COAL MINING
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46	Rabindra Kumar Sinha	16-01-2014	Prof. M Jawed Dr S Sengupta (Ext) NIRM, Bangalore	INFLUENCE OF IN SITU STRESS ON DESIGN OF LAYOUT AND SUPPORT IN BORD AND PILLAR WORK
47	Murari Prasad Roy	16-01-2014	Dr A K Mishra Prof. M Jawed Dr P K Singh, CIMFR, Dhanbad	INVESTIGATIONS INTO THE EFFECT OF DELAY TIME, TOTAL CHARGE AND EFFECTIVE EXPLOSIVES WEIGHT PER DELAY ON BLAST INDUCED GROUND VIBRATION
48	Autar Krishen Raina	27.8.2014	Prof. VMSR Murthy ISM/Dhanbad & Dr A K Soni, CIMFR, Nagpur	MODELLING THE FLYROCK IN OPENPIT BENCH BLASTING UNDER DIFFICULT GEOMINING CONDITIONS
49	Satish Kumar Sinha	27.8.2014	Guide: Prof. D C Panigrahi Co-guide: Prof. G N Singh	A STUDY OF OCCURRENCE OF FIRE IN OPENCAST COAL MINES EXTRACTING DEVELOPED PILLARS
50	Manamohan Rout	3.12.2014	Dr A K Mishra	AN INVESTIGATION INTO THE INFLUENCE OF VARIOUS PROPERTIES OF EMULSION EXPLOSIVES ON VELOCITY OF DETONATION
51	Patitapaban Sahu	9.3.2015	Prof D C Panigrahi (Guide) & Dr D P Mishra (Co- guide)	STUDIES ON RADON EMANATION AND DEVELOPMENT OF A MATHEMATICAL MODEL FOR PREDICTION OF AIR QUANTITY TO MINIMIZE RADIATION LEVELS IN UNDERGROUND URANIUM MINES
52	Sahendra Ram 2012/DR/1002	04.11.2016	Dr. Dheeraj Kumar (Guide) & Dr. Rajendra Singh (External Guide), CSIR- CIMFR, Dhanbad	A STUDY OF ROOF-PILLAR INTERACTION FOR AN EFFICIENT BREAKER LINE DESIGN DURING MECHANISED DEPILLARING
53	Pradeep Kumar 2012/DR/0092	04.11.2016	Dr. D. P. Mishra (Guide) & Prof. D. C. Panigrahi (Co-Guide)	COMPUTATIONAL SIMULATIONS OF METHANE LAYERING AND DISPERSION OF METHANE IN UNDERGROUND COAL MINES
54	Pradeep Kumar Gautam 2013/DR/0293	21.02.2017	Dr. Amit Kumar Verma (Guide) & Dr. Kripamoy Sarkar (Co- Guide)	THERMOMECHANICAL BEHAVIOR OF INDIAN GRANITE AND SANDSTONE FOR UNDERGROUND DISPOSAL OF HIGH LEVEL RADIOACTIVE WASTE
55	Sachin Maheshwar 2013/DR/1052	21.02.2017	Dr. Amit Kumar Verma (Guide)	STUDY OF NEAR-FIELD EVOLUTION OF THERMO-HYDRO-MECHANICAL PROCESSES IN INDIAN DEEP GEOLOGICAL REPOSITORY FOR HIGH LEVEL NUCLEAR WASTES

56	Jitendra Pandey 2011/DR/0117	29.03.2017	Dr. Dheeraj Kumar (Guide) & Prof. D. C. Panigrahi (Co-Guide) & Dr. V. K. Singh (External Guide), CIMFR Dhanbad	AN INVESTIGATION INTO ASSESSMENT, PREDICTION AND PREVENTION OF COAL MINE FIRE OF JHARIA COALFIELD USING INTEGRATED APPROACH
57	Sumit Kumar Chaudhary 2012/DR/0165	31.03.2017	Dr. Dheeraj Kumar (Guide) & Dr. Manish Kumar Jain (Co-Guide)	INVESTIGATION INTO THE SATELLITE IMAGE FUSION AND QUALITY ASSESSMENT TECHNIQUES FOR LAND USE APPLICATIONS
58	Rajni Kant 2012/DR/1093	10.08.2017	Prof. Phalguni Sen (Guide) & Dr. Partha Sarathi Paul (Co-Guide)	DEVELOPMENT OF A PLANNING STRATEGY FOR THE SELECTION OF OPTIMUM STOPPING METHOD FOR HARD ROCK MINES
59	Manjunath A. 2014/DR/1000	04.09.2017	Dr. Partha Sarathi Paul (Guide) & Dr. Biswajit Paul (Co-Guide)	INVESTIGATION OF ENVIRONMENTAL AND SOCIO-ECONOMIC IMPACT OF MINE CLOSURE WITH REFERENCE TO KOLAR GOLD FIELDS
60	Falguni Sarkar 2012/DR/1058	11.10.2017	Dr. Partha Sarathi Paul (Guide) & Shri. S. C. Bhowmik, GM (Mines), UCIL (External Guide)	AN INVESTIGATION OF MULTIVARIATE STATISTICAL MODELS TO ESTIMATE THE RISK AND RISK PERCEPTION OF MINE WORKERS IN UNDERGROUND HARD ROCK MINES