

CURRICULUM VITÆ

1. PERSONAL INFORMATION

Name in Full: **Pankaj Kumar Dewangan**

2. PARTICULARS OF EDUCATIONAL QUALIFICATIONS

Sl. No.	Degree Obtained & Branch / Specialization	Name of the University/Institute	Year of Passing	% of Marks/ CGPA	Class/ Division
1.	B.E. Mining Engg.	GEC, Raipur/ Pt Ravishankar Shukla University, Raipur	1992	76 %	First Div. with Hons.
2	M. Tech Open Cast Mining	Indian School of Mines, Dhanbad	2000	4.74	First Div. with Hons
3	Ph. D. persuing	NIT Raipur 2011			

3. PARTICULARS OF EXPERIENCE

i) Teaching Experience : 18.5 years					
Sl. No.	Name of the organization	Designation	Date of Joining	Date of leaving	Last Pay Band and Grade Pay*
1	Govt. Engg. College, Bilaspur	Lecturer	02.06.1997	30.08.1998	8000-275-13400
2	Govt. Engg. College, Raipur	Lecturer	31.08.1998 to	01.06.2002	8000-275-13400
3	Govt. Engg. College, Raipur	Sr. Lecturer	02.06.2002	02.06.2007	10000-325-15600
4	NIT, Raipur	Reader	02.06.2007	02.06.2010	15600-38000 (PB3)
5	NIT, Raipur	Asso. Prof.	02.06.2010	Till date	37400-67800 (PB4)
ii) Research Experience: Nil years					
Sl. No.	Name of the organization	Designation	Date of Joining	Date of leaving	Last Pay Band and Grade Pay*
iii) Industry Experience: 4.2 years					
1	Western Coalfields Limited, Nagpur	Under Manager (Asstt. Manager)	08.04.1993	31.05.1997	2200-175-3700

5. SOFTWARE SKILLS-

Blastware, Flac/Slope

6. LIST OF PUBLICATIONS

S. No.	Papers in journals
International Journals	
1.	Dewangan P. K., Pradhan M. and Ramtekkar G. D. Shear strength behaviour of fly ash mixed coal mine overburden dump material and stability assessment using numerical modelling, ARPJ Journal of Engineering and Applied Science, VOL. 11, NO. 1, JANUARY 2016 (ISSN 1819-6608)

2.	P K Dewangan, Manoj Pradhan, GD Ramtekkar, Effect of compaction density and moisture content level on shear strength behavior of fly ash mixed coal mine overburden dump material, ARPN Journal of Engineering and Applied Science, ISSN/ISBN 1819-6608 11(13)
3.	Dewangan P. K. , Pradhan M, Ramtekkar GD, Shear Strength Criteria for Soft and Weathered Coal Mine Overburden Dump Material, Academic Journal of Science, ISSN/ISBN 2165-6282
4.	Dewangan P. K. , Pradhan M. and Ramtekkar G. D. (2016), “ Shear Strength Behavior of Fly Ash Mixed Coal Mine Overburden Dump Material and Stability Assessment using Numerical Modeling’ , ARPN Journal of Engineering and Applied Science, Vol. 11, No. 1, (ISSN 1819-6608)
5.	Verma L, Dhekne PY, Jharia DC, Dewangan P.K., Predicting dangerous seismic events in active coal mines through data mining, International Journal of Applied Engg. Research, Volume 12, Number 5, ISSN 0973-4562
6.	Valmikee Sahu, Dewangan P.K., Jharia DC, 2017, Opencast coal mining at large depth in India, World Journal of Engg. And Technology, ISS2454-695XN
7.	Pankaj Kumar Dewangan , Manoj Pradhan, G.D. Ramtekkar, Effect of fragment size and moisture content on compaction and shear strength behaviour of coal mine overburden dump material, European Journal of Advances in Engineering and Technology (EJAET) Dec. 2015, 2(12) (ISSN 2394-658X)
National Journals	
1	M. Pradhan, Ravi Jade and Pankaj Dewangan , “Policy Issues and Reforms needed for growth of Indian Thermal Power sector in an Economincal and Eco-friendly way” The Indian Mining & Engineering Journal, Vol. 52, No. 7, July 2013 (ISSN 00195944)
2	Jharia DC, Kumar Tarun, Dewangan Rakesh, Pal Dharam and dewangan PK, Assessment of ground water Quality Index for Drinking Purpose in the Durg District, Chhattisgarh using Geographical information system (GIS) and Multi Criteria Decision analysis (MCDA) techniques, Geological Society of India, 0016-7622 (88)
2	Pankaj Dewangan , M. Pradhan, Nawal Kishore; “Slope Stability Radar system for monitoring open pit slopes”, The Indian Mining and Engg. Journal, Vol. 52, No. 4, April 2013 (ISSN 00195944)
3	Pankaj Dewangan , Dr. Manoj Pradhan, Dr. Nawal Kishore; “Use of coal combustion residues in Mining Industry for sustainable development of Mining and Power Sector together”, The Indian Mining and Engg. Journal, Jan. 2011 (ISSN 00195944)
4	Nawal Kishore Pankaj Dewangan ; “Drawing of Balancing Diagram of Dragline Operations”, The Indian Mining and Engg. Journal, March 2011 (ISSN 00195944)
5	Pankaj Dewangan , Dr. Manoj Pradhan, Dr. Nawal Kishore; “ Utilization of fly ash as a structural fill material for safe and sustainable development: Need of the hour”, The Indian Mining and Engg. Journal, Vol. 49, No. 8, Aug. 2010 (ISSN 00195944)

6	Nawal Kishore, Pankaj Dewangan ; “Estimation of operating cost of Dragline in various modes of operation”, The Indian Mining and Engg. Journal, Vol. 49, No. 8, Aug. 2010 (ISSN 00195944)
7	D.K. Mishra, Pankaj Dewangan , Ajay Chaturvedi and N. Dewangan, “Remote Sensing: A powerful tool for mineral Exploration”, ”, The Indian Mining & Engineering Journal, Vo. 46, No. 12, December 2007, (ISSN 00195944)
8	Pankaj Dewangan , Ajay Chaturvedi, M.D. Patel, G.R. Verma and B. Prasad, “ An insight in to the status of small scale mining in India”, The Indian Mining & Engineering Journal, January 2006, (ISSN 00195944)
9	Dhekne P.Y. Pradhan M Dewangan P. Verma G.R. “Assessment of Excavation Method Using RMR Classification” The Indian Mining & Engineering Journal Vol 44, No 11, pp 25-27. 2005 (ISSN00195944)
10	Pankaj Dewangan and A. K. Mishra, “Influence of Moisture Content on Seismic Wave Propagation through Rocks”, Mining Engg. Journal, Vol. 7, No. 3, Oct. -2005, (ISSN0975-3001)
11	M.D. Patel, G.R. Verma, B. R. Parate, P.K. Dewangan and B. Prasad, “Ventilation Network analysis of an Underground Metalliferous Mine by Simulation”, Mining Engg. Journal, Vol. 6, No. 10, May -2005 (ISSN0975-3001)
12	Pankaj Dewangan and A. K. Mishra, “Effect of Total Explosive Charge Fired and Direction of Initiation on the Magnitude of Blast Induced Ground Vibration”, The Indian Mining & Engg. Journal, Vol. 44, No. 5, May -2005 (ISSN 00195944)
13	Pradhan M, Dewangan P & Dhekne P.Y.(2004), Estimation of Safe Peak Particle Velocity in the Vicinity of Blasting Site Near an Earthen Dam” Mining Engineering Journal, Vol 06, No04, pp23-28. (ISSN0975-3001)

S. No.	Papers in Conference
International Conference	
1	Pankaj Kumar Dewangan , Manoj Pradhan, G.D. Ramtekkar, Generalized shear strength criteria for soft and weathered coal mine overburden dump material, International Journal of Arts and Science Conference, Boston, USA, May 23-27, 2016 (Paper accepted)
2	Pankaj Kumar Dewangan , Manoj Pradhan, Fly ash utilization in India vis-à-vis technological advancement and barriers ahead, MiCTM, Dubai, March 25-26, 2015
3	Pankaj Dewangan , An Investigation in the effect of moisture content and porosity on cohesion and angle of internal friction of sandstone rock” International Symposium on Rock Mechanics and Geo-Environment in Mining and Allied Industries, ITBHU, Varanasi, 13-14 Feb. 2009
4	Pankaj Kumar Dewangan, Manoj Pradhan , G.D. Ramtekkar, (2016) Generalized Shear Strength Criteria for Soft and Weathered Coal Mine Overburden Dump Material, International Journal of Arts and Science Conference, Boston, USA, May 23-27, 2016 (Paper accepted)
National Conference	

1	Pankaj Kumar Dewangan , Manoj Pradhan, G.D. Ramtekkar, Shear strength characterization of fly ash mixed coal mine overburden dump material. National Seminar on Recent Practices and Innovations in Mining Industry, Raipur, 19-20 Feb 2016
2	Pankaj Kumar Dewangan , Subhendu Mishra, D. Tiwari, Amit Goswami, Recent advancements in slope monitoring instrumentation, National Seminar on Recent Practices and Innovations in Mining Industry, Raipur, 19-20 Feb 2016
3	Pankaj Kumar Dewangan , Manoj Pradhan, G.D. Ramtekkar, Effect of gradation, gravel content and fragment size on the compaction and shear strength behavior of coal mine overburden dump material, SSIOMCE, NIT Rourkela, July 25-26, 2015
4	Pankaj Kumar Dewangan , Manoj Pradhan, Strategy for fly ash utilization to achieve 100% utilization target, Seminar on sustainable development in Mineral & earth resources, SDMinER, New Delhi, June 21-22 2014
5	Pankaj Dewangan , M Pradhan, Nawal Kishore, Opencast coal mining technology in India- Present scenario and challenges ahead, National Seminar on Problems of Mining Industry and Technological advancement, March 7-8, 2014
6	Pankaj Dewangan , M Pradhan, Nawal Kishore; Advancement in geotechnical instrumentation for monitoring unstable open pit slopes, Workshop on clean mining technologies- Extraction, beneficiation and use, Mine Tech 13, May 03-04, 2013, Bhubneshwar
7	Pankaj Dewangan , M. Pradhan, Ravi Jade, Punch Mining System: An Eco-Friendly Solution to Exploit High Stripping Ratio Coal Blocks, National Conference on Challenges in 21 st Century Mining-Environment and Allied Issues, 19-21 Feb. 2013
8	Kishore, N. and Dewangan, P. Estimation of Operating Cost of Dragline in Various Modes of Operation., MineTECH'2010 .Proceedings of National Seminar on Mining Technology- Extraction, Beneficiation for Safe and Sustainable Development, Bhubaneswar
9	Dhekne P.Y, Pradhan M & Dewangan P , Role of Rock Mass Classification in Site Characterization, National Conference on Emerging Trends in Civil Engineering for Infrastructure Development, Org. by Dept of Civil Engineering ,NIT, Raipur, Dec 15-16, 2008
10	Pankaj Dewangan , A. K. Mishra and R. N. Gupta, Parameters influencing blast induced ground vibration- a review, Rock Frag 01, Institute of Technology, Banarus Hindu University, Varanasi, 14-15 Feb. 2001

7. RESEARCH PROJECTS UNDERTAKEN

S. No	Sponsoring Agency	Title of project	Amount of grant	Period	Role

8. SPONSERED PROJECTS UNDERTAKEN

S. No	Organization	Title of project	Amount of grant	Period	Role

1	Jamul Cement Works Limestone Mine, A.C.C. Ltd.,	Study To Validate And Suggest Measures On Existing Safe Operating Procedures (Sop) During Backfilling Operations Near Water Logged Area (Block Iii), 2015-16	467400=00	2015-16	Principal Investigator
2	Jamul Cement Works Limestone Mine, A.C.C. Ltd.,	A Report On Scientific Study For SME Trial Blasts And Ground Vibration Monitoring at Jamul Cement Works Limestone Mine, , 2015-16	399000=00	2015-16	Principal Investigator
3	Century Cement Limestone Mine, Baikunth	Establishment Of Ground Vibration Predictor Equation	224720=00	2014-15	Investigator
4	Chhatisgarh Mineral Development Corporation, Raipur	Assessment of Strength Properties of Coal Measuring Rocks,	301671=00	2011-12	Principal Investigator
5	M/S KSK Mahanadi Power Company Ltd, Akaltara	Monitoring of Blast Practice and Controlled Blast Designing for the Construction of KSK Mahanadi Power Plant, , 2010-11	220600=00	2010-11	Investigator
6	Century Cement limestone mine, Baikunth	Establishment of Ground vibration predictor Equation	110300=00	2010-11	Investigator
7	M/S South Eastern Coalfields Ltd. Sohagpur Area,	Study of Effect of Blast Induced Ground Vibrations on Structure Near Dhanpuri & Amlai OCP	110300=00	2009-10	Co-investigator
8	M/S Steel Authority of India Ltd. Bhilai	Assessment of Technical Feasibility of The Bulk Emulsion Explosive at the Mines of SAIL	157304=00	2009-10	Co-investigator
9	M/S Fatehpur East Coal Company, Raipur	Assessment of Strength Properties and Elastic Behavior of Coal Measuring Rocks	179238=00	2009-10	Investigator

10	M/S Shriram Gemicom	Assessment of Strength Properties and Elastic Behavior of Coal Measuring Rocks	160487=00	2009-10	Investigator
11	M/S Sharda Minerals, Kawardhi OCP	Assessment of Strength Properties and Elastic Behavior of Coal Measuring Rocks	121330=00	2008-09	Investigator
12	M/S Soth Eastern Coalfields Ltd., Rajendra Sub Area, Sohagpur	Assessment of Strength Properties of Coal Measuring Rocks	111955=00	2008-09	Investigator
13	Century Limestone Mine, Baikunth	Establishment of Ground Vibration Predictor Equation	61732=00	2007-08	Investigator
14	Raipur Alloys and Steel, Raipur	Ground Vibration Monitoring at Dongarbor Iron Ore Mine,	52972=00	2007-08	Investigator
15	National Thermal Power Corporation, Sipat, Bilaspur	Investigation in to Founding Levels,	55000=00	2006-07	Investigator
16	Manikpur OCM, SECL, Bilaspur	Assessment of Strength Properties and Elastic Behavior of Coal Measuring Rocks	74591=00	2006-07	Investigator
17	Italian Thai Dev. Ltd, Kyan H P	Controlled blast design and Blast monitoring at Kol dam Hydro electric Project	481206=00	2005-06	Investigator
18	Super Thermal Power Project, NTPC Sipat., Bilaspur	Geotechnical Investigation for the Assessment of Blastability of The Strata at The Raw Water Reservoir Site, Stage II ,	275500=00	2005-06.	Investigator
19	Stage II, NTPC Sipat., Bilaspur	Classification of Strata at the Raw Water Reservoir Site Stage II	44480=00	2005-06	Investigator
20	M/S SEW Construction Ltd., Hyderabad	Controlled blast design for the Protection of Earthen Dam at sikasar Micro hydro electric Plant of CSEB	50000=00	2004-05	Investigator

21	M/S South Eastern Coal Fields Ltd. Rajendra and Nawagao Sub Area, Shahdol	Assessment of Strength Properties and Elastic Behavior of Coal Measuring Rocks	114000=00	2003-04	Investigator
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9. SHORT TERM COURSES/WORKSHOPS/SEMINARS ORGANIZED

Organization	Title of the program	Period
Worked as a member of Editorial Board and Organizing Committee	National Seminar on Recent Practices and Innovations in Mining Industry, Raipur	19-20 Feb 2016
Worked as a member of Organizing Committee	National Seminar on Mining Technology for Sustainable Development, IM and EJ	18-19 Nov. 2011

10. SHORT TERM COURSES/SEMINARS CONFERENCES ATTENDED

Organization	Title of the program	Period
NIT Raipur	Workshop on Advanced Techniques in Material Characterization	Jan 22-23, 2016
IIT, Kharagpur	Short term course on stability and design of slope and dump in opencast mines	September 15-17, 2015
Manipal Technological University, Dubai	International Conference	March 24-26, 2015
NIT Raipur	Workshop on Cloud Computing	July 20-21, 2013
NIT Raipur	Workshop on Convergence of Technology, Management and Global Business	Dec. 20, 2011
Raipur	National Seminar on Mining Technology for Sustainable Development, IM and EJ	18-19 Nov. 2011
NIT Raipur	National Conference on Emerging trends in Civil Engg.	15-16 Feb. 2008
IT BHU, Varanasi	Technology Exchange Prog. On Rock Instrumentation	27-29 Dec. 2007
VNIT Nagpur	National Seminar on Emerging trends in Mining Technologies	Oct. 1-2, 2007
Raipur	National Seminar on Clean and Green Mining in Chhattishgarh	Oct. 28, 2006
Govt. of Chhattisgarh and I.I.T., Kanpur	Short term course on 'MATLAB'	Oct. 4 to Oct 8, 2005 (One Week)

I.I.T., Kharagpur	Short term course on 'Geostatistical Models in Grade Control'	Sept. 5 to Sept. 9, 2005 (One Week)
Govt. of Chhattisgarh and I.I.T., Kanpur	Short term course on 'Project Management'	Jan. 27 to Jan. 29, 2005
Govt. of Chhattisgarh and I.I.T., Kanpur	Short term course on 'Alternative Fuels and Advances in Engines'	Oct. 16 to Oct 20, 2004 (One Week)
Canada India Institute Industry Linkage Project, Raipur	Short term course on 'Development of Linkage Models and the Market Study'	Jan. 9 to Jan. 11, 2002

11. MEMBERSHIP OF PROFESSIONAL BODIES

Professional Body	Member no./ID	Remarks
Indian Mining and Engineering Journal, Bhubneshwar	LM-2884	Life Member
Mining, Metallurgical and Geological Institute of India, Kolkata	9915	Life Member
International Society of Rock Mechanics, New Delhi, India	---	Member since 2013
Indian Geotechnical Society, New Delhi	LM-3719	Life Member

12. OTHER INFORMATION

1. Paper Reviewer /Editor

- *Reviewer of Manuscripts for Arabian Journal of Science*
- *Editor of Proceedings of RPIMI-2016*

2. Development of Laboratory/ Courses

Rock Mechanics Laboratory Manual

Following four new experiments were added in the last two years which will be

- *Determination of compaction parameters for dump material.*
- *Measurement of rebound hardness using Schimidts Hammer*
- *Direct shear test of gravels/ dump materials*
- *Direct shear test of rock containing discontinuity*

3. Curriculum Design

- Development of Curriculum for B.Tech Mining Course of NIT Raipur (member)
- Development of Curriculum for Diploma Mining Course of Rajeev Gandhi Prodyogiki

Viswavidyalaya, Bhopal (member)

- Development of Curriculum for B. E. Mining Course of CSVTU, Bhilai (Member)
- Development of Curriculum for B. E. Mining Course of Pt. R.S.S.U, Raipuri

4. Contribution to the Institute Development:

- 1 Institute Purchase Committee Chairman Purchase Committee (March 2015 to till date)
- 2 TEQUIP Purchase Committee Chairman , (September 2015 to Till date)
- 3 TEQUIP Purchase Committee Member, (Aug 2014 to September 2015)
5. B.Tech./B.Arch. First Year Verification Officer CSAB admission 2015
6. B.Tech./B.Arch. First Year Dy. Center Incharge CSAB admission 2014
7. B.Tech./B.Arch. First Year Verification Officer CSAB admission 2013
8. B.Tech./B.Arch. First Year Verification Officer CSAB admission 2012
9. B.Tech./B.Arch. First Year Verification Officer CSAB admission 2011
10. B.Tech./B.Arch. First Year Verification Officer CSAB admission 2010
11. B.Tech./B.Arch. First Year Verification Officer CSAB admission 2009
12. Institute Examination,Superintendant of Exam Spring 2014
13. Institute Examination,Superintendant of Exam Autumn 2014
14. Institute Examination,Superintendant of Exam Spring 2013
15. Purchase Committee Member App. Geology Deptt.
16. Purchase Committee, Member Mech. Engg. Deptt
17. Purchase Committee, Member Mining Engg. Deptt
18. Institute Magazine Committee, 2015, Member
19. Institute Magazine Committee, 2014, Member
20. Departmental Advisory Committee, Member, Mining Engg. Deptt.
21. Examination Cell, Dy. Controller, Exam. (Oct. 2005 to Dec. 2010)
22. Institute anti ragging committee, Member 2010 to 2015
23. Convocation -2013, 2014, 2015, 2016 –
Worked as Chairman, Degree and Medal
Distribution Comm. on Stage