

**Professional Activities of Civil Engg Dept.  
Jan15-Dec15**

# Achievements of faculty

## 1. Dr. M. K. Verma,

- Best research paper and presentation award in “2nd International Conference on Geological and Civil Engineering (ICGCE 2015)”, at Dubai, UAE during January 10-11, 2015.
- Member Board of Governors, NIT Raipur w.e.f. 06/07/2015.
- Member of Executive Council, Chhattisgarh Swami Vivekanand Technical University, Bilai (C.G.) 2015

## 2. Ishtiyaq Ahmad

- Best Paper Award at 2015 2nd International Conference on Geological and Civil Engineering 10-11 January 2015, organized by CBEES, Hong Kong

## 3. Manikant verma

- Won First prize in college level competition on Hindi Questionnaire at NIT Raipur in 2015

# Publications of faculty

## INTERNATIONAL JOURNALS

- ❑ Manoj Kumar Tiwari, Dr. Samir Bajpai, Dr. U. K. Dewangan (2015) An Analytical Study of Heavy Metal Concentration in Soil of an Industrial Region of Chhattisgarh, central, India, International Journal of Scientific and Research Publications, Volume 5, Issue 7, July 2015 1, ISSN 2250-3153, [www.ijsrp.org](http://www.ijsrp.org)
- ❑ Shalem Ernest and U. K. Dewangan ( 2015) Identification of Structural System: Recent Trends and Challenges. International Journal of Structural Engineering and Analysis, Vol. 1: Issue 1, [www.journalpub.com](http://www.journalpub.com), P 1-8
- ❑ M. Murmu and S.P. Singh, Strength Characteristics of Lime Activated Slag Cement, Advances in Cement Research, 2015,27(1), 268-77.

# Publications of faculty

## INTERNATIONAL JOURNALS

- ❑ P. V. Joshi, N. K. Jain, G.D. Ramtekkar, 2015, Analytical modeling for vibration analysis of partially cracked orthotropic rectangular plates, European Journal of Mechanics A/Solids, Vol. 50 (2015), pp. 100 – 111
- ❑ P. V. Joshi, N. K. Jain, G.D. Ramtekkar, 2015, Analytical modeling for vibration analysis of thin rectangular orthotropic/functionally graded plates with an internal crack, Journal of Sound and Vibration, Vol. 344 (2015), pp. 377 – 398.
- ❑ P. V. Joshi, N. K. Jain, G.D. Ramtekkar, 2015, Effect of thermal environment on free vibration of cracked rectangular plate: An analytical approach, Thin-Walled Structures, Vol. 91 (2015), pp. 38 – 49.
- ❑ P. V. Joshi, N. K. Jain, G.D. Ramtekkar, 2015, Effect of fragment size, uniformity coefficient and moisture content on compaction and shear strength behaviour of European Journal of Advances in Engineering and Technology, Vol. 2(12), 1-10.
- ❑ Ishtiyag Ahmad, V. Verma, M. K. Verma “ Application of curve number method for estimation of runoff potential in GIS environment”, IPBCEE, Vol.- 80, 16-20, 2015

# Publications of faculty

## INTERNATIONAL JOURNALS

- ❑ Ishtiyag Ahmad, M. K. Verma, Application RS and GIS in estimation of sub basin runoff potential using HEC-HMS”, International Journal of Applied Engineering Research, Vol.-20, No.-15, 41243-41248.
- ❑ Anju Jangade, Ishtiyag Ahmad, M.K. Verma, “Application of MODFLOW in Water Resource Management”, Journal of Water Resource Engineering and Management, 2015; 2 (2), 1-5p.
- ❑ Sabyasachi Swain, Mani Kant Verma, M.K. Verma, “Analysis of Change in Annual Rainfall for Raipur District, Chhattisgarh”, International Journal of Engineering Research & Technology, 2015, PP- 74-76.
- ❑ Sabyasachi Swain, Mani Kant Verma, M.K. Verma, “Statistical Trends Analysis of Monthly Rainfall for Raipur District, Chhattisgarh”, International Journal of advance engineering research and studies, Vol. IV (II), 87-89, 2015.
- ❑ Fathian, F., Prasad, A.D., Dehghan, Z. and Eslamian, S. (2015) ‘Influence of land use/land cover change on land surface temperature using RS and GIS techniques’, Int. J. Hydrology Science and Technology, Vol. 5, No. 3, pp.195–207.

# Publications of faculty

## INTERNATIONAL JOURNALS

- ❑ Deo S. V. (2015), “Problems review and suggestions for early high strength, high volume, low lime-fly ash concrete ” European Journal of Environmental and Civil Engineering, DOI: 10.1080/19648189.2015.1053153 (SCI Expanded)
- ❑ Deo S.V. (2015), “Mix design approach for high 28 days’ strength, high volume, low lime fly ash concrete” Road Materials and Pavement Design, DOI: 10.1080/14680629.2015.1026381, pp-1-9. (SCI Expanded)
- ❑ Deo S.V. and Pofale A.D.(2015), “Parametric Study for Replacement of Sand by Fly Ash for Better Packing and Internal Curing” Open Journal of Civil Engineering, Vol-5, pp-118-130

# Publications of faculty

## NATIONAL JOURNALS

- ❑ Sabyasachi Swain, Mani Kant Verma, M.K. Verma, Analysis of Change in Annual Rainfall for Raipur District, Chhattisgarh, International Conference on 'International Seminar On Non-Conventional Energy Sources for Sustainable Development of Rural Areas', PARAS 2015, 21-22 March 2015.
- ❑ Swain, M. J. Reddy, Mani Kant Verma, M. K. Verma, " Statistical analysis of Rainfall over seonath basin, Chhattisgarh, India " 20th International Conference on Hydraulics, Water Resources and River Engineering(HYDRO 2015), 17-19 December, 2015.
- ❑ Ishtiyag Ahmad, Vivek Verma & Dr. M. K. Verma. "Application of Curve Number Method for Estimation of Runoff Potential in GIS Environment", 2nd International Conference on Geological and Civil Engineering (ICGCE 2015), Dubai UAE, 10-11 Jan, 2015.
- ❑ Hitesh Sharma and Govardhan Bhatt (2015), "A Review on Mining Induced Earthquake" Journal of Structural Engineering and Management, ISSN: 2393-8773.

# **Publications of faculty**

## **NATIONAL JOURNALS**

- ❑ Sharma, H., Govardhan & Deo, S. V., " Earthquake risk reduction development and disaster management programme in India", International journal for scientific research and development, Vol-2, Issue-11, Jan 2015, pp-258-272.

# Publications of faculty

## INTERNATIONAL CONFERENCE/SEMINAR

- ❑ A. D. Prasad, Scope of Integrated Farming Systems with Organic Agriculture and Geomatics Techniques in India, 4th World Conference on Applied Sciences, Engineering & Technology, 24-26 October 2015, Kumamoto University, Japan.
- ❑ P. V. Joshi, N. K. Jain, G.D. Ramtekkar, 2015, Analytical modeling for vibration analysis of partially cracked orthotropic rectangular plates, European Journal of Mechanics A/Solids, Vol. 50 (2015), pp. 100 – 111
- ❑ P. V. Joshi, N. K. Jain, G.D. Ramtekkar, 2015, Analytical modeling for vibration analysis of thin rectangular orthotropic/functionally graded plates with an internal crack, Journal of Sound and Vibration, Vol. 344 (2015), pp. 377 – 398.
- ❑ P. V. Joshi, N. K. Jain, G.D. Ramtekkar, 2015, Effect of thermal environment on free vibration of cracked rectangular plate: An analytical approach, Thin-Walled Structures, Vol. 91 (2015), pp. 38 – 49.
- ❑ P. V. Joshi, N. K. Jain, G.D. Ramtekkar, 2015, Effect of fragment size, uniformity coefficient and moisture content on compaction and shear strength behaviour of European Journal of Advances in Engineering and Technology, Vol. 2(12), 1-10.

# Publications of faculty

## INTERNATIONAL CONFERENCE/SEMINAR

- ❑ Yadu L.K. and Tripathi R.K. (2015). “Response of Circular Footing on New Key Engineering Material - Granulated Blast Furnace Slag as Structural Fill” 5th International Conference on Key Engineering Materials 2015 (ICKEM 2015), March 21-23, 2015, Singapore.
- ❑ Yadav, N., Deo, S. V. and Ramtekkar, G. “Internal curing using secondary materials driving profitability and sustainability in producing concrete” Proceedings of UKIERI Concrete Congress - Concrete Research Driving Profit and Sustainability, November 2-5, 2015, NIT Jalandhar, India, pp- 708-716.
- ❑ Raut, M. and Deo, S. V. “A review on effect of fly ash and fibers on shrinkage cracking and durability of concrete” Proceedings of UKIERI Concrete Congress - Concrete Research Driving Profit and Sustainability, November 2-5, 2015, NIT Jalandhar, India, pp- 748-771.
- ❑ Rath, B., Deo, S. V. and Ramtekkar, G. “A review on possibility of sustainable engineered cement concrete” Proceedings of UKIERI Concrete Congress - Concrete Research Driving Profit and Sustainability, November 2-5, 2015, NIT Jalandhar, India, pp- 2349-2361.

# **Publications of faculty**

## **INTERNATIONAL CONFERENCE/SEMINAR**

- ❑ M.Murmu, Govardhan Bhat and S.Eswary “Partial Replacement of GGBS in Concrete for Prevention of Natural Resources”, ICCESE 2015 : International Conference on Civil, Environmental and Structural Engineering to be held in Kuala Lumpur, Malaysia during February, 12-13, 2015.
- ❑ Satya Eswari, J. Sekharbabu, Meena Murmu, Govardhan Bhat , “Modeling and Optimizing of sinker electric discharge machine process parameters on AISI 4140 alloy steel by Central Composite Rotatable Design Method”, ICCESE 2015 : International Conference on Civil, Environmental and Structural Engineering to be held in Kuala Lumpur, Malaysia during February, 12-13, 2015.

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## NATIONAL CONFERENCE/SEMINAR

- ❑ B. Rath, S. Deo, G.D.Ramtekkar , 2015, A review on possibility of sustainable engineered cement concrete UKIERI Concrete Congress- Concrete research driving profit and sustainability. 2349
- ❑ N. Yadav, S. Deo, G.D.Ramtekkar , 2015, Internal Curing using secondary materials driving profitability and sustainability in producing concrete UKIERI Concrete Congress- Concrete research driving profit and sustainability. 708
- ❑ Ashish Patel, M K Verma, B P Sahariah, Jyotikant Choudhary Jyotsna Choubey, “CO Emission Assessment from Fossil Fuel Energy use in Raipur”, National Conference on “Research & Innovation in Engineering & Technology” (RIET 2015) on 6th -7th November 2015, pp-251-254.
- ❑ Ishtiyag Ahmad, M.K.Verma, “Application of Remote Sensing & GIS in Developing Rainfall Runoff Model”, National Conference on “Research & Innovation in Engineering & Technology” (RIET 2015) on 6th -7th November 2015, pp-267-273.
- ❑ Mokshdhar Meshram, Ishtiyag Ahmad, M. K. Verma, Flood Risk Management, BITCON National Conference on ‘Innovation on Civil Engineering’, 20-21 February 2015, BIT Durg, (C.G.).

# Publications of faculty

## NATIONAL CONFERENCE/SEMINAR

- ❑ Shalem Ernest, U. K. Dewangan A Review on Structural Health Monitoring , BITCON 2015, National Level Conference at BIT Durg
- ❑ Nadella Anusha, Ishtiyaq Ahmad, M. K. Verma, Impact of Urbanization and Climate Changes on Urban Floods- A Review, BITCON National Conference on 'Innovation on Civil Engineering', 20-21 February 2015, BIT Durg, (C.G.).
- ❑ Anurag Swarnkar, Ishtiyaq Ahmad, M.K. Verma, Application of Remote Sensing and GIS in Water Resource Engineering, BITCON National Conference on 'Innovation on Civil Engineering', 20-21 February 2015, BIT Durg, (C.G.).

# Achievements of students

Aakash Shrishrimal (First Year)

Selected for final round of CDQ at IIT BHU 2015

Mayank Shrivastava ( First Year)

Won the first prize in Instrumental competetion held at Raipur organised by  
Royal and Genius School in collaboration with Anand Music 2015

Reddi cherla Chandana (Fourth Year)

'A' Grade in NCC B Certificate exam 2015.

Payyavula Bhavasagar(Second Year)

1<sup>st</sup> prize winner in Inter University Competition 2015 on Non Water Resource  
Management held at Kolkata TERI.

# Achievements of students

Students Of Second year bagged all the three prizes at the annual Bridge Design Competition 2015 conducted by the organization 'Civil Simplified ':

Siddhant Sharma and Vivek Agrawal ( 1st position)

Bhartendu Mishra and Rishabh Jain(2nd position)

Rakesh Bhushan Nayak and Vikas Chandrakar( 3rd position)

Lokesh Kant Sao, Vishwas Churendra, Dipesh Meshram and Abhishek Anand(all Second Year) won the first prize in the Bridge Design Competition 2015 held at VNIT, Nagpur.

# Achievements of students

SUJATA DHAR ( THIRD YEAR)

- got 6 gold medals in athletics- 200m, 400m, 800m, 1500, marathon & 4x100 relay and thus, awarded the “girls best athlete of nitrr” in SAMAR- sports fest 2015 of nitrr.
- won second prize in Vigyaan,2015 science exhibition of Aavartaan.

RAHUL SHARMA (Third year)

- Got OPJEMS scholarship (OP JINDAL GROUP) 2015.

YASHIKA POTPHODE(Third year)

- Secured 2<sup>nd</sup> position in the event VIGYAN of AAVARTAN'15 at NIT Raipur (2015)

KRISHNA KUMAR ( THIRD YEAR )

- 2<sup>nd</sup> Prize, EDIFICE Megalith 2015 IIT Kharagpur .

VIVEK GUPTA (THIRD YEAR)

- 3<sup>rd</sup> Prize in Essay Contest on Smart Transportation System, Organised by NRDA, 2015.

# **Publications and awards in inter-institute events by students of the programme of study**

1. Deepesh Kumar Patel, Akshay Baxi, Govardhan Bhatt, “Use of fly ash as partial replacement of sand in Concrete”, International Conference on Geo-Engineering and Climate Change Technologies for Sustainable Environmental Management GCCT-2015, October 9-11, 2015, MNNIT Allahabad, India.
2. Akshay Baxi, Deepesh Kumar Patel, Mohit Jaiswal, “Greywater Reuse : A Feasibility Study for Nit Raipur Residential Buildings”, International Conference on Geo-Engineering and Climate Change Technologies for Sustainable Environmental Management GCCT-2015, October 9-11, 2015, MNNIT Allahabad, India.
3. Shashwat Pandey, Madhurima Pandey, S. K. Sinha., “Utilization of Kiln Accretion as a Raw Material in Rural Road Laying”, Civil and Environmental Research, Vol.6(11), 2014.
4. Ansu Thomas, Kavindra kumar, Leeyash tandon, Om prakash, “Effect of flyash on the engineering properties of soil”, Proceedings of fourteenth Theiier International conference, paris, france, 8th march 2015, ISBN: 978-93-82702-72-6, pp 38-40
5. Sunny Deol G, KunalSingh, Rakesh Kumar, “Prediction of 2D-Structural Deformation of Flexible Pavement using Artificial Neural Networks”, International Conference on Recent Trends and Challenges in Civil Engineering, December 12-14, 2014, MNNIT Allahabad, India.

6. Sunny Deol G, MukulGarg and NilinGoyal, "A Novel Freight Traffic Forecasting Algorithm using Econometric Modeling as per IRC Guidelines", International Conference on Recent Trends and Challenges in Civil Engineering, December 12-14, 2014, MNNIT Allahabad, India.
7. Swapnil Shukla, Sunny Deol G, Agarwal P.K, "Accelerated Safety Evaluation Technique for Road Intersection in Indian Scenario", International Conference on Recent Trends and Challenges in Civil Engineering, December 12-14, 2014, MNNIT Allahabad, India.
8. D. Prakash has attended Summer internship at IIT Delhi during 19 th May to 11th July, 2014.
9. D.Prakash , "Emerging challenges and issues in Environmental Protection", on 23 and 24<sup>th</sup> January 2014, held at Raipur Institute of Technology ,Raipur.
10. D.Prakash secured first position in the event EDIFICE, organized in Megalith 2014 at IIT Kharagpur.

11. Dhritiman Chatterjee, "Cost Vs Benefits in Constructing Green" , 2013, which was held at Rungta, Bhilai.
12. D.Prakash, "Zephyr tower: a concept for better wind energy utilization and reducing wind load on buildings", The Eighth Asia-Pacific Conference on Wind Engineering, December 10–14, 2013, Chennai, India
13. Pooja Agrawal, "Environmental Protection & sustainable Development" held at Raipur Institute of Technology, Raipur on 16 th February 2013.
14. Pooja Agrawal secured O.P.Jindal Engineering & Management Scholarships , 2013
15. Pooja Agrawal got Second position in "5th National Civil Engineering Student's Symposium-2013" organized at "AAKAAR'13" by IIT Bombay.
16. Shastrarth , N. S L Mounica & U. K. Dewangan, "Soil Safe Bearing capacity Computation using MATLAB", International Conference, 8-9 Feb. 2013, Bhilai.
17. Rashmeet Kaur Khanuja & U.K. Dewangan, "Soil Classification Using MATLAB programming", International Conference Shastrarth-2013, (2013) 8-9 Feb. 2013, RCET, Bhilai.

18. V. Yadav, "Planning & Analysis of a Green Building for Indian Cities", International Conference Shastrarth-2013, 8-9 Feb. 2013, at RCET, Bilai.
19. Shubham Kherpande & U. K. Dewangan, "Oneway Slab Automation Using MATLAB Programming", International Conference Shastrarth-2013, 8-9 Feb. 2013, RCET, Bilai.
20. Yogesh Nirmalkar, Nitin Naik, Saurabh Singh and Dr. U. K. Dewangan, "Effect of storey height on cost optimization for a g+3 commercial office building – a case study", National Conference on the Role of Science and Technology for Sustainable development of Chhattisgarh,,2012, Shri Shankaracharya Technical Campus, Bilai.
21. Yogesh Patel, Rick Bask and Dr. U. K. Dewangan, "Planning and analysis of a Green Building", National Conference on the Role of Science and Technology for Sustainable development of Chhattisgarh, 2012, Shri Shankaracharya Technical Campus, Bilai.
22. Bhavesh Swarnkar, Ankit Jain, S. V. Deo, and Dr. U. K. Dewangan, "A Comparative Study Of Concrete Mix Design Using British DoE Method, ACI Method and IS Code Method," National Conference on the Role of Science and Technology for Sustainable development of Chhattisgarh, ,2012, Shri Shankaracharya Technical Campus, Bilai.