

CURRICULAM VITAE

Dr. K. MANJULA VANI

Professor of Civil Engineering

JNTUH, Hyderabad

mobile:+919493973821

Email: manjulavani@jntuh.ac.in,

ronilekha@gmail.com



1. EDUCATIONAL QUALIFICATION:

- B. Tech (Civil Engineering)
- M. Tech. (Structural Engineering)
- Ph.D (Civil Engineering)
- MIE, MISTE.

2. PROFESSIONAL EXPERIENCE:

- Professor in Civil Engineering, JNTUHCEH, Hyderabad, August 2016 to till date.
- Professor in Civil Engineering (Remote Sensing & GIS), IST, JNTUH, Hyderabad, 2009 to August 2016
- Professor in Civil Engineering, JNTUCEA, Anantapur, Aug 2006 to Mar 2009
- Associate Professor in Civil Engineering, JNTUH, Hyderabad, Oct 1994 to Aug 2006
- Lecturer in Civil Engineering (Asst. Professor), JNTUH, Hyderabad, Oct 1989 to Oct 1994
- Asst. Executive Engineer in R&B department, October 1989
- Lecturer in VR Sidhartha College of Engineering, Vijayawada, 1988

3. SPECIALIZATION AND EXPERTIZE

- Specialized in Structural Engineering, Remote sensing & GIS (Landuse/Landcover, Disaster Management, Multispectral Image analysis)

4. RESEARCH GUIDANCE:

- Guided 4 Ph.d projects.
- Titles:
 1. Flood routing through canal systems (2009)
 2. Investigation on Flexure and Shear Behaviour of cold-formed steel-concrete composite beams. (January 2015).
 3. Microstructure study of NBD fiber reinforced high performance concrete (2016)
 4. FEM analysis of concrete gravity dams subjected to earthquakes. (2016)
- Guided more than 150 M.Tech projects.
- As a member of industrial consultancy services, offered consultancy to various Government and Non-government constructions, in particular on quality control, bitumen mix design and material testing, non destructive testing of various structures.
- Teaching for both undergraduate and postgraduate programmes.
- Ongoing M.Tech projects – 25.
- Ongoing Ph.d projects – 5.

5.AWARDS & DISTINCTIONS:

- Awarded by “**Savithri Bai Phooley**” Best Teacher Award in 2009
- Awarded “**Sabala**” by Doordarsan Saptagiri channel in 2013
- Nominated for Nandi Award, “**Plastics Plastics**” film on research work carried out in JNTUH college of Engineering Hyderabad. The documentary film shot by SITE, Govt of AP was telecast in October 2008 teleschool, Doordarshan, Saptagiri Channel
- Chaired 2 international and one national conference sessions.
- Conducted 2 National Conferences(NCSUP-2016,NCRSA-2018)
- Conducted 2 National Workshops(NWDM-2018,NWSC-2018)
- Conducted 08 IIRS Dehradun outreach programmes as coordinator JNTUH
- Conducted 96 Programmes in 2 years, as Director, UGC Academic staff college.
- Conducted and Co-ordinated 15 orientation courses of 4 weeks duration.
- Conducted and Co-ordinated 4 refresher courses of 3 weeks duration in GIS based Engineering Applications.

6.PUBLICATIONS(latest)

International Journals:

1. Manjulavani.K,SashikiranBabu.K,“The Effect of Reservoir Compressibility on the Earthquake Performance of Gravity Dams”, International Journal of Advances in Mechanical and Civil Engineering,Sweden, Volume-4, Issue-5, Oct.-2017, ISSN: 2394-2827.
2. G. SrinivasaRao,Manjula Vani K an Srinivasa Sarma.D, “Structure of HDPE Fiber Reinforced High Strength Concrete Containing Metakaolin”, International Journal of Engineering Trends and Technology, Volume 36 Number 6- June 2016.
3. Ballu Harish1, R.Venkat Sheshu2, V. Madhavi supriya3, K.Manjula Vani4, 'Automation of Global Telecommunication system data processing, 2016 IJEDR | Volume 4, Issue 3 | ISSN: 2321-9939.
4. Prof. K.Manjula Vani.a , K.Sashikiran Babub “Evaluation of Hydrodynamic Pressure in Arch Dams under Earthquakes.”International journal of Advances in Mechanical and Civil Engineering,ISSN-2394-2897,volume-2,issue-2,April-2016.
5. Maloth Chaitanya, Ballu Harish, Maruthi Rao K, Manjula Vani K. A review on wireless sensor networks evolution for Smart cities in urban planning. *Discovery*, 2016, 52(246), 1509-1519
6. T. Valsa Ipe, H. Sharada Bai, K. ManjulaVani and Merchant Mohd Zafar Iqbal, “Flexural Behaviors of Cold-Formed Steel-Concrete Composite Beams”, International Journal of Steel and Compositestructures, Vol. 14, No. 2 (2013) 105-120.
7. Y.Satya Prabhakar, M.Potharaju, K.ManjulaVani ‘Mystery of building failures in North coastal Andhra Pradesh: An FGE approach.’, The IUP journal of soil and water sciences, Vol. IV, No. 4, pp. 4767,November 2011.

8. Y.S.Prabhakar, M.Potharaju, K.Manjulavani, 'Civil Engineering Aspects of Tsunami Resistant Buildings: A Forensic Approach'. The IUP journal of soil and water sciences. The IUP Journal of Soil and Water Sciences, Vol. IV, No. 3, pp. 4863, August 2011
9. J.V. Suresh Babu, M.Potharaju, K.ManjulaVani, 'Repair Methodology for Fire Damaged R.C.C Beams.' International Journal of Applied Engineering Research;2011, Vol. 6 Issue 23/24.
10. J.V. Suresh Babu, M.Potharaju, K.ManjulaVani, 'Repair Materials for heated concrete.' International Journal of Applied Engineering Research. Pg 1555-1564.
11. Y.S. Prabhakar, M. Potha Raju And K. Manjulavani " Lime slurry trench technique, to control, cracks on Industrial Flooring-Eco friendly approach', EM International, vol 30,issue 2, 2011,pg 273-278.

National Journals:

1. G. SrinivasaRao, Dr. Manjula Vani K and Dr. D. Srinivasa Sarma, "Structure of HDPE Fiber Reinforced High Performance Concrete", Journal of The Institution of Engineers (India): Series A, IEIA-D-16-00096.
2. Dr. K. Manjula Vani, M. Potha Raju, Madhu Babu. "Microstructure Analysis of HDPE fibre reinforced concrete" - Master builder 2007.
3. Manjula Dr. K. Manjula Vani, Dr. S. Surya Rao, M. Ramesh "Flood Routing through the Ganga water system", Journal of applied hydrology, AHI & AU, Vishakhapatnam June 2008.
4. J.V. Suresh Babu, M.Potharaju, K.ManjulaVani, 'Limiting Deflection of wood substrates for ceramic tile floor installations.' Floor Covering Installer, Jan/Feb 2009, Issue 1, volume 16, pg 39.
5. M. Ramesh, Dr. T.V. Praveen, Dr. K. Manjula Vani, Dr. S. Surya Rao, "Tehri Dam-breach Vs Mansoon Flood Routing in the Ganga river system", ISH Journal of hydraulic engineering, June 2012.
6. T. Valsa Ipe, H. Sharada Bai, K. ManjulaVani, "An experimental study on behavior of thin walled cold- formed steel-concrete composite beams under shear", Indian concrete journal 2016
7. Manjula Vani K., "NBD Fibers as Building Materials", Master builder, June 2013.

International Conferences:

1. K.Manjulavani,G.srinivasa rao,B.Ashritha,"Study on Microstructural behavior of silica fume and non-bio degradable fibersw in high performance concrete", Second International conference on Nano Science and Engineering Applications(ICONSEA-2018),ISBN:979-81-924726-4-5,4th-6th October 2018.
2. Ch.Mamatha,K.Manjulavani,L.Ravi,"Assessing land use land cover dynamics at watershed level using multitemporal satellite data",Second International conference on Nano Science and Engineering Applications(ICONSEA-2018),ISBN:979-81-924726-4-5,4th-6th October 2018.

3. K.Manjulavani,V.Madhavi Supriya, M. Suhrullekha,B. Harish, "Detection of Shoreline Change using Geo-Spatial Techniques along the coast between Kanyakumari and Tuticorin" International Conference on Power, Control, Signals and Instrumentation Engineering ,September 2017,ISBN: 978-1-5386-0814-2.
4. K.Manjulavani,B.Harish,M.Shantosh,V.MadhaviSupriya," Change Detection of Land use and Land Cover using Remote Sensing Techniques", International Conference on Power, Control, Signals and Instrumentation Engineering, September 2017, ISBN: 978-1-5386-0814-2.
5. Ballu Harish, R.Venkat Seshu, K.Manjulavani, "Dissemination of Atmospheric Data through Open Source GIS", International Conference on Environment and Energy, Dec 2014, ISBN: 978-93-81212-96-7
6. Prof. K.Manjula Vani.a , K.Sashikiran Babub "Evaluation of Hydrodynamic Pressure in Arch Dams under Earthquakes." 8th International Conference on Civil and Environmental Engineering (I2C2E), January 2016, Berlin, Germany
7. Manjula Vani.K, Prathysha.B and Ramesh.M "Soil Erosion and Sediment yield modeling using Remote sensing and GIS techniques" International conference on Recent Innovations and Engineering Technologies", August 2016, Copenhagen, Denmark.
8. Sudarshan, Dr Manjulavani, Dr V Bhikshma, " Strength Characteristics of HDPE Concrete." International conference, December 2015, Osmania University, Hyderabad
9. G. Srinivasa Rao and k.manjulavani, Ph.D., "Reuse of Polymers as Fibers in Concrete: Review", International Conference on Science and Engineering of Materials for Future Needs, Dec 2015, ISBN: 978-1-329-77555-8.
10. M.Sumanth Reddy, Sourav Maity, K.Manjula Vani, "Indian Oil Sardine Prediction Pattern using Satellite Remote Sensing and GIS applications", International Conference on Environment and Energy, Dec 2014, ISBN: 978-93-81212-96-7
11. Maloth Chaitanya, Dr. K. Manjula Vani, "Correlation of Wireless Sensor Networks with Remote Sensing", International Conference on Environment and Energy, Dec 2014, ISBN: 978-93-81212-96-7
12. Ballu Harish, R.Venkat Sesh, K.Manjulavani, "Dissemination of Atmospheric Data through Open Source GIS", International Conference on Environment and Energy, Dec 2014, ISBN: 978-93-81212-96-7
13. M.Sumanth Reddy, Sourav Maity, K.Manjula Vani, "Indian Oil Sardine Prediction Pattern using Satellite Remote Sensing and GIS applications", International Conference on Environment and Energy, Dec 2014, ISBN: 978-93-81212-96-7
14. K.Sashikiran Babu, K.Manjula Vani, Ph.D., "Environmental Impact Assessment of Large Dams", International Conference on Environment and Energy, Dec 2014, ISBN: 978-93-81212-96-7
15. G. Srinivasa Rao and K. Manjula Vani, Ph.D., "Reuse of HDPE for Municipal Solid Waste Disposal", International Conference on Environment and Energy, Dec 2014, ISBN: 978-93-81212-96-7.
16. T. Valsa Ipe, H. Sharada Bai, K. ManjulaVani, "Performance of Cold-formed Steel-concrete Composite beams under Flexure", Proceedings of International Conference advances in Architecture and Civil Engineering, Vol. 1, pp. 21-23, June 2012.
17. T. Valsa Ipe, H. Sharada Bai, K. ManjulaVani, "Experimental study on the influence of Lip Size on the Flexural strength of Cold-Formed Steel Concrete Composite Beams", Proceedings of International Conference on Civil, Structural and Environmental Engineering, pp. 586-589, Feb,2011

18. Dr. K. Manjula Vani, Dr. B. Krishna Gandhi, Dr. P.N. Rao “FEA of Koyna concrete gravity dam”, published in proceedings of International Conference on “Disaster Management”, by NAC, India on 10 NOV 2003.
19. Dr. K. Manjula Vani, Dr. P.N. Rao. “Adaptive FEA of Concrete gravity dams”, published in proceedings of International conference on “Disaster Management”, by BITS, India on 15 NOV 2003.

National Conferences:

1. Sashikiran Babu.K 1, Manjula Vani.K, Ph.D “Seismic Risk Analysis of Dam Reservoir System”, National Conference on Sustainable Urban Planning-2016: 5th July 2016, PAPER NO: N002.
2. MALOTH CHAITANYA1, BALLU HARISH1, K.Maruthi Rao2 K.MANJULA VANI3,”A review on wireless sensor networks evolution for smart cities in urban planning,” National Conference on Sustainable Urban Planning-2016: 5th July 2016, PAPER NO: N003.
3. G. Srinivasa Rao₁ and Dr. K. Manjula Vani₂,”Reuse of HDPE and Structure of Fiber Reinforced High Strength Concrete Containing Silica Fume and Metakaolin,” National Conference on Sustainable Urban Planning-2016: 5th July 2016, PAPER NO: N001.
4. T.Jaya Babu₁ Dr.ManjulaVani K₁ SS.Asadi₂, and M.V.Raju,”STRATEGIES FOR NATURAL RESOURCE MANAGEMENT USING REMOTE SENSING AND GIS: A MODEL STUDY” , National Conference on Sustainable Urban Planning-2016: 5th July 2016, PAPER NO: N006.
5. Ballu Harish, R.Venkat Sheshu, K.Manjula Vani, “Exchange of Global Telecommunication System data at INCOIS”, 38th National Systems Conference, Real Time Systems: Modeling, Analysis and Control, November 2014, ISBN: 9789351072973
6. M.Sumanth Reddy, Sourav Maity, K.Manjula Vani, “Sardine Distribution Pattern using Satellite Remote Sensing and GIS application”, 38th National Systems Conference, Real Time Systems: Modeling, Analysis and Control, November 2014, ISBN: 9789351072973
7. Maloth Chaitanya, Dr. K.V. Manjula Vani, “Wireless Sensor Networks for Automated Field Data Collection”, 38th National Systems Conference, Real Time Systems: Modeling, Analysis and Control, Nov 2014, ISBN: 9789351072973
8. Mahendar. G., Ramesh. M. and Dr. ManjulaVani. K., “Land Use Land Cover Mapping using AWiFS Data- a Case Study”, National Conference on Recent Trends in Science and Technology, JNTUH Jagityal, Feb 2015.
9. Hemalatha D*₁, Dr. ManjulaVani K₁, Ramesh M₁ and Asra M₁” Development of an Automatic Algorithm for Extraction of Waterlogged Areas using Geospatial Techniques.” 2nd National Conference on Water, Environment and Society (NCWES - 2015),JNTUH,Hyderabad.
10. Ramesh M*₁, Dr. ManjulaVani K₁, Hemalatha D₁ and Asra M₁ “Evaluation of NDWI and MNDWI for Intra-Annual and Inter Annual assessment of Waterlogged Areas using Satellite Data - A case Study.” 2nd National Conference on Water, Environment and Society (NCWES – 2015),JNTUH,Hyderabad.
11. Jaya Babu T*₁, Dr. Kesava Rao P₂, Dr.ManjulaVani K₁, Dr.MadhavaRaoV₂ & Phanindra Kumar T₂ “Watershed Planning and Impact Assessment – using Satellite Data.” 2nd National Conference on Water, Environment and Society (NCWES - 2015), JNTUH, Hyderabad.
12. Mahbooba Asra₁, Dr. ManjulaVani K₁and Ramesh M,₁ “Satellite based Assessment of Soil & Water Characteristics.” 2nd National Conference on Water, Environment and Society (NCWES - 2015),JNTUH,Hyderabad.

13. K. Manjula Vani and G. Srinivasa Rao, "Effect of High Density Poly Ethylene Fibers in High Performance Concrete", National Conference on Recent Trends in Science and Technology, JNTUH Jagityal, Feb 2015, ISBN: 978-93-82570-52-3.
14. G. SrinivasaRao, Dr. Manjula Vani K and D. Srinivasa Sarma, "Reuse of PET Waste from Coastal Area in High Performance Concrete – Case Study on Goa Coast, 2nd National Conference on Water, Environment and Society (NCWES - 2015), JNTUH, Hyderabad, ISBN: 978-93-83635-87-0.
15. Dr. K. Manjula Vani, Dr. M. Potha Raju "Fire resistant structures – Disasters – Remedies", National conference held by KITS, Warangal, DEC 2003.
16. Dr. K. Manjula Vani, M. Venkateswarulu, P.N. Rao "Flexural behaviour of Flyash RCC beams using GFRP plates", by RACE Patiala, 2004.
17. Dr. K. Manjula Vani, M. Venkateswarulu, P.N. Rao "Epoxy bonded fibre reinforced beams using GFRP plates", CSIR, Bhopal, 2004.
18. Dr. K. Manjula Vani, P.N. Rao "Indian Earthquakes – An overview of Koyna dam", Institution of Engineers, India, 2004.
19. Dr. K. Manjula Vani, "Non-bio degradables as Building materials", Institution of Engineers, India, 2005.
20. Dr. K. Manjula Vani, Dr. S. Surya Rao, M. Ramesh "Dam breach flood analysis for High Rock Fill Dams", ICASDA 2005 GITAM, Vishakhapatnam.
21. Dr. K. Manjula Vani, Dr. S. Surya Rao, M. Ramesh "Modelling overtopping breaching of Non-cohesive homogeneous embankments", HYDRO 2006, Bharati Vidyapeeth University College of Engineering, Pune.
22. Dr. K. Manjula Vani, M. Ramesh "Simulation of Dam breach Flood wave", National Seminar on role of IT in Disaster Management, IACR Engineering College, Rayagada, Orissa, 2006.
23. Dr. K. Manjula Vani, M. Ramesh, Dr. T. Sivaji Rao "Dam break analysis for RP Sagar Dam and its Environmental impacts", National workshop on Disaster Management, SVU, Tirupati, 2005.
24. Dr. K. Manjula Vani, Prabhakar Rao, Dr. M. Potha Raju "Analysis of Building failures at Chodawaram and Srikakulam, Andhra Pradesh", NBM & Construction world, Pg.204-214, August 2008.
25. T. Valsa Ipe, H. Sharada Bai, K. ManjulaVani, "An Experimental study on ductility performance of Cold-Formed Steel-Concrete Composite Beams", National Conference on Recent Advances in Civil Engineering, pp. 328-333, Nov-Dec, 2012.
26. Prof K. Manjula Vani and G. Srinivasa Rao, "Effect of High Density Poly Ethelene Fibres in High Performance Concrete", National Conference on Recent Trends in Science and Technology, JNTUH Jagityal, Feb 2015
27. K.Sashikiran Babu, K.Manjula Vani, Ph.D., "Quasi Static Response of Concrete Gravity Dams", National Conference on Recent Trends in Science and Technology, JNTUH Jagityal, Feb 2015
28. Mahendar. G., Ramesh. M. and Dr. ManjulaVani. K., "Land Use Land Cover Mapping using AWiFS Data- a Case Study", National Conference on Recent Trends in Science and Technology, JNTUH Jagityal, Feb 2015
29. Dr. K.Manjula Vani and V.V.N.Ramesh, "Experimental Studies on Modified Reactive Powdered Concrete – Analysis with Tension and Elasticity", National Conference on Technological Innovations and Sustainable Infrastructure, NIT calicut, Mar, 2015
30. K.Sashikiran Babu, Prof. K.Manjula Vani, "Study of Natural Vibrations in Concrete Gravity Dams", National Conference on Technological Innovations and Sustainable Infrastructure, NIT calicut, Mar, 2015
31. Hemalatha D*1, Dr. ManjulaVani K1, Ramesh M1 and Asra M1" Development of an Automatic Algorithm for Extraction of Waterlogged Areas using Geospatial Techniques." 2nd National Conference on Water, Environment and Society (NCWES - 2015),JNTUH,Hyderabad.

32. Ramesh M*1, Dr. ManjulaVani K1, Hemalatha D1 and Asra M1 “Evaluation of NDWI and MNDWI for Intra-Annual and Inter Annual assessment of Waterlogged Areas using Satellite Data - A case Study.” 2nd National Conference on Water, Environment and Society (NCWES – 2015),JNTUH,Hyderabad.
33. Jaya Babu T*1, Dr. Kesava Rao P2, Dr.ManjulaVani K1, Dr.MadhavaRaoV2 & Phanindra Kumar T2 “Watershed Planning and Impact Assessment – using Satellite Data.” 2nd National Conference on Water, Environment and Society (NCWES - 2015),JNTUH,Hyderabad.
34. Reuse of PET Waste from Coastal Area in High Performance Concrete – Case Study on Goa Coast, G. SrinivasaRao*1, Dr.ManjulaVani. K2 and Dr. D. Srinivasa Sarma32nd National Conference on Water, Environment and Society (NCWES - 2015),JNTUH,Hyderabad.
35. K. Sashikiran Babu*1 and Dr. ManjulaVani. K,2 “Evaluation of damping for safety and stability of Gravity dams by Finite Element Analysis.” 2nd National Conference on Water, Environment and Society (NCWES - 2015),JNTUH,Hyderabad.
36. Sudarshan, Dr Manjulavani, Dr V Bhikshma, “ Strength Characteristics of HDPE Concrete.” International conference, December 2015, Osmania University, Hyderabad.
37. Dr. K. Manjula Vani and V. V. N. Ramesh, “Experimental Studies on Modified Reactive Powdered Concrete – Analysis with Tension and Elasticity”, National Conference on Technological Innovations and Sustainable Infrastructure, NIT calicut, Mar, 2015.
38. S.Jamalaiah Dr.K.ManjulaVani L. Ravi Ballu Harish”3D MODELING OF CARTOGRAPHICMAP AND VISIBILITY ANALYSIS OF BUILT ENVIRONMENT FOR SECURITY MANAGEMENT USING GIS”, NCRSA, April-2018,JNTUH.
39. Doredla Yellamanda Mr.T.Shankar Prasad Dr. K. Manjula Vani” Change Detection Of LULC for North-East Coast Of Visakhapatnam Using Geospatial Techniques” , NCRSA, April-2018,JNTUH.
40. L.Ravi Dr.K.Manjulavani Ballu Harish” Change detection of Vegetation Spectrum for Urban Area through NDVI analysis” NCRSA, April-2018,JNTUH.
41. K. NIHARIKA Kiran Dr.K.Manjulavani BalluHarish” FLOOD VULNERABILITY ANALYSIS OF HYDERABAD METROPOLIS USING GEOINFORMATICS” NCRSA, April-2018,JNTUH.
42. MOHAMMED SAMI UZ ZAMAN 1 Dr K.Manjulavani 2 Ballu Harish 3” GNSS & IMU NAVIGATIONAL AID ON SCABROUS TERRAINS” NCRSA, April-2018,JNTUH.
43. V. Madhavi Supriya, K. Manjula Vani” Hydrological Modelling using HEC-HMS: A Review” NCRSA, April-2018,JNTUH.
44. Kore Renukamr.M.A.Fyzeed,K. Manjula Vani” Impact Assessment Of A Treated Watershed Using GeospatialTechniques” Ncrsa, April-2018,Jntuh.
45. Mohammed Sami Zaman , Dr K.Manjulavani, Ballu Harish ” Naval Surveillance Using Next Generation Autonomous underwater Vehicles” Ncrsa, April-2018,Jntuh.
46. P. Bala Raju , Dr. K. Manjulavani , J.Kiran K.Maruthirao ” Web And Mobile Based Geo-Spatial Information Support For Ruraldevelopment” Ncrsa, April-2018,Jntuh.
47. L. Ravi1 and K. Manjulavani2,” Correlation between land surface temperature (lst) and ndvi using image processing techniques”, Proceedings of 5th National Conference on Water, Environment & Society (NCWES-2018)

7.ADMINISTRATIVE(ACADEMIC) EXPERIENCE

- **Member**,Board of Governing Council for VNR vignana Jyothi Institute of Engineering and Technology,Bachupally,Hyderabad.
- Board of studies **chairperson** in Civil Engineering JNTUH University April 2019 to till date
- **Member** of interview board for professor selections,Bangalore University January 2019
- **Head** Department of Civil Engineering, August 2016- August 2018
- Board of studies **chairperson** in Civil Engineering JNTUHCEH August 2016- August 2018.
- Board of studies **chairperson** in Civil Engineering,
 1. Vaagdevi college of engineering ,Warangal.(2015-17)
 - 2.SR Engineering College,Warangal.(2015-17)
- Board of studies **chairperson** in Spatial Information Technology, 2015 to 2019
- **Director** UGC ASC, JNTUH, Hyderabad: Aug 2010 to May 2013
- Board of studies **member** in civil engineering,JNTUH,2013.
- Member for interview board for 2013 recruitment of teaching staff in IIIT, Hyderabad.
- Member for interview board for 2008 recruitment of teaching staff in GITAM university, Visakhapatnam.
- Chaired 2 international and one national conference sessions.

June,2019

K.Manjulavani