Overview

Roads are a basic part of rural infrastructure and are needed for development, land management, access to areas, and movement of goods and services. Sixty to seventy percent of the roads in most countries are "low-volume" and are unsurfaced or have only a gravel surfacing. Also roads have long been known to contribute to substantial erosion and sediment production, cause slope instability, impact drainages with channel modifications, as well as create animal barriers and land use changes. This course presents many of the “Best Practices” and mitigation measures developed and used today for good, cost-effective road design, and used to minimize environmental damage from roads. The primary objectives of the course are as follows:

- To present “appropriate technologies” useful for low-volume road design and construction.
- To help produce well designed and constructed roads that last and that reduce maintenance and repair costs.
- To promote long-term cost-effective management of low-volume roads and to reduce the negative environmental impacts of roads; and
- To provide useful information and references about the many aspects of rural roads engineering in the course.

<table>
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<tr>
<th>Course</th>
<th>September 26th to September 30th, 2016</th>
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<tbody>
<tr>
<td>Host Institute</td>
<td>National Institute of Technology, Warangal</td>
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<td>Maximum Number of Participants</td>
<td>50</td>
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<tr>
<td>You Should Attend If...</td>
<td>You are a civil / transportation engineer involved in the design, construction, evaluation, and maintenance of low volume roads. You are a research scientist interested in characterizing pavement materials. You are a research scholar or post-graduate student or faculty interested in learning how to design pavements for low volume roads.</td>
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<td>Fees</td>
<td>The participation fees (excluding lodging and boarding) for taking this course is as follows: Faculty/Scientists/Industry Personnel from abroad: US $200 Student participants from abroad: US $100 Persons working in Industry/ Consultancy Firms: Rs. 8,000/- Faculty (Internal &amp; External)/ Scientists from Research Organizations: Rs. 4,000/- Students: Rs. 1,000/- (without grading) and Rs. 2,000 (with grading) The above fee includes all instructional materials, computer use for tutorials and assignments, and session refreshments. The participants will be provided with accommodation on payment basis.</td>
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</tbody>
</table>
The Faculty

Mr. Gordon R. Keller is a licensed Civil and Geotechnical Engineer at Genesee Geotechnical and a consulting geotechnical and geologic engineering in California. He received a BS in Civil Engineering from UCLA in 1968, and then a MS in Geotechnical Engineering from University of California, Berkeley in 1972. He has worked with the U.S. Forest Service for over 40 years and is currently retired, but continues working as a private engineering consultant. Professional experience has included extensive work with low-volume roads, slope stability, retaining structures, drainage, materials source development, and bridges and dams. Recent professional experience has included conducting over 40 Low-Volume Roads Engineering Best Practices lectures and training courses (one to five days long) worldwide over the past 5 years. He is involved in activities with the Transportation Research Board Low-Volume Roads Committee, International Erosion Control Association (IECA), American Society of Civil Engineers (ASCE), International Roads Federation, and US Forest Service Office of International Programs, and a variety of other agencies and Universities. He has published numerous papers on various aspects of Geotechnical and Geologic Engineering, as well as manuals on Minimum Impact Low-Volume Roads Engineering Best Practices and Storm Damage Risk Reduction.

Dr. S. Shankar is an Assistant Professor in the Department of Civil Engineering at NIT Warangal, Telangana. He received his Ph.D. from NIT Warangal in 2012. He is having more than 8 Years of Experience in the field of teaching, research, and consultancy. His research interests on low volume roads, pavement analysis and design, pavement evaluation, pavement deterioration modeling, and Geosynthetics. He is the author of about 25 publications in leading international journals and conference publications. He is regularly involved in various training programs conducted by Ministry of Rural Road Development (MoRD) India. He is a reviewer for International Journal of Civil Engineering, International journal for research in Science Engineering and Technology (IJRSET) and several International and national conferences.

Dr. Venkaiah Chowdary is an Assistant Professor in the Department of Civil Engineering at National Institute of Technology, Warangal. He received his Ph.D. from IIT Madras in 2008. He is having more than 10 Years of Experience in the field of teaching, research, and consultancy. His research interests include characterization of asphalt binders and mixtures, asphalt pavement design and evaluation. He is a member of AAPT, IEI, ISAP, and IRC. He is regularly involved in various training programs conducted by Ministry of Rural Road Development (MoRD) India. He is a reviewer for International Journal of Civil Pavement Engineering, India Road Congress Journal, Journal of Rehology and several International and national conferences.

Course Co-ordinators

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