



# Swami Keshvanand Institute of Technology, Management & Gramothan

Approved by AICTE, Ministry of HRD, Government of India  
Recognized by UGC under Section 2(f) of the UGC Act, 1956  
Affiliated to Rajasthan Technical University, Kota

*Center of Excellence  
in  
“Transportation Engineering”*

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Swami Keshvanand Institute of Technology, Management &  
Gramothan, Jaipur

## Report

# Centre of Excellence in “Transportation Research”

## Introduction

We aim at educating and training students with sound knowledge and awareness in variety of areas including transportation and materials. Institute also runs a post graduate programme relevant to the thematic area of proposed Centre of Excellence in Transportation Research.

The Institute broadly emphasizes on quality education, training and research. It has well equipped laboratories that complement the high standards of the Institute. Well qualified and experienced faculty members are serving in the domain of Transportation Engineering.

Experts from the industry are periodically invited to give lectures/demonstrations to the students on the latest developments in the field. Students are given exposure to industries by industrial visits and industrial training sessions. In last few years we have also conducted in-house trainings of our students successfully.

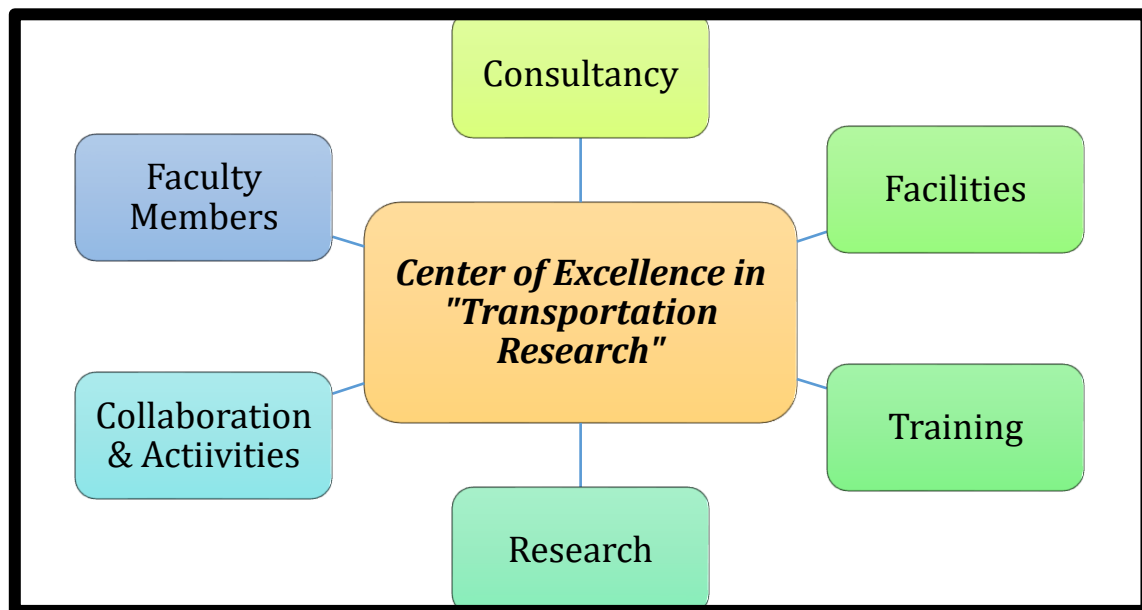
## Objectives

1. To create a resource centre for exchange and dissemination of information and knowledge.
2. To impart training to students and other stakeholders in the domain of Transportation Research.
3. To promote multidisciplinary research in the area of transportation engineering.
4. To provide sustainable technological support for various projects leading to the development of Transportation Systems and materials.

5. To bring awareness in the society related to road safety and utilization of waste materials

In order to achieve above mentioned objectives the following salient features strongly support the cration of Centre of Excellence in Transportation Research at our Institute.

### **Salient Features**



- **Consultancy:** Several consultancy assignments have been undertaken from various organisations in the area of proposed Centre of Excellence. The details are attached in Annexure I.
- **Laboratory Infrastructure:** Well equipped laboratories with state of art equipments used for testing of materials related to construction of pavements and performance evaluation are available . The details are attached in Annexure II.
- **Training:** Successful inhouse training of the students sharing the various aspects related to Transportation Engineering like Traffic Data Analysis, Pavement Material etc have been conducted. The details are attached in Annexure III.
- **Research:** The department has completed few DST sponsored projects and several post graduation projects are undergoing. The details are attached in Annexure IV.

- **Collaborations & Activities:** The Institute is associated with Indian Concrete Institute and several activities like Workshops and Conference have been conducted in the past. The details are attached in Annexure V.
- **Faculty members:** The Institute is having faculty members expertise in the area of Transportation Engineering. The details are attached in Annexure VI.

## ***I. CONSULTANCY***

<b>S.No.</b>	<b>Client</b>	<b>Description of Work</b>	<b>Sanction Date</b>
1	Traffic Police Commissionerate, Jaipur	“Traffic Management Inspection of Jaipur Walled City”	15/02/2021
2	Rural Development & Panchayati Raj Department, Govt. of Rajasthan	“Preparation of Spatial Plans and concept note for identified clusters”	20/09/2020
3	Traffic Police Commissionerate, Jaipur	“Inspection of Congested Streets and Intersections in Jaipur City”	14/08/2019
4	Gram Panchayat Ramsar Palawala, Panchayat Samiti-Bassi, Jaipur	“Compressive Strength Test by Core Cutting Method”	01/06/2016
5	Rural Development & Panchayati Raj Department, Govt. of Rajasthan	“Third Party Inspection of various works under BADP scheme”	01/06/2016
6	Rural Development & Panchayati Raj Department, Govt. of Rajasthan	“Third Party Inspection of various works under MPLAD scheme”	22/03/2016
7	Rural Development & Panchayati Raj Department, Govt. of Rajasthan	“Third Party Inspection & Quality Testing of Various Works”	01/12/2015

## ***II. LABORATORY INFRASTRUCTURE***

The state-of-the-art infrastructural facilities available in this area have been summarised below:

### **1. Digital Marshall Apparatus**

The digital marshall apparatus is used for measurement of bituminous mix properties, stability & flow and optimum binder content of the mix. The apparatus is suitable for testing both standard and modified samples. The Indirect Tensile Strength test assembly is also attached.



### **2. Rolling Thin Film Oven Test (RTFOT) Apparatus**

The Rolling Thin Film Oven (RTFO) test is used to measure the effect of heat and air on a moving film of semi-solid asphalt binder. The results of this treatment are determined from measurements of the binder properties before and after the test. Repeatability of the test is directly related to the accuracy with which the oven temperature can be maintained and the reproducibility of the thermal rise time of the system.



### 3. Accelerated Aggregate Polishing Apparatus

This device is used for the determination of the Polished Stone Value PSV. Fourteen specimen aggregate samples are clamped around a rotating road wheel. These samples are subjected to two timed stages of abrasive polishing under a loaded rubber tyre.



### 4. Pendulum Skid Resistance Tester

It measures the frictional resistance between a rubber slider mounted on the end of a pendulum arm and the test surface. This provides with a routine method of checking the resistance of wet and dry surfaces to slipping and skidding, both in the lab and on site. The distance travelled by the head after striking the sample is determined by the friction of the sample surface. A reading of Skid Resistance is then obtained.



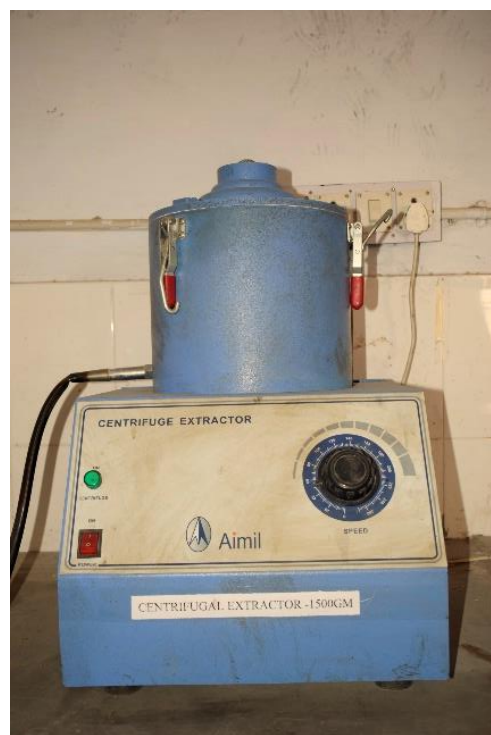
## 5. Automatic Mixer for Bituminous Concrete

This machine is used for laboratory mixing of bituminous materials to prepare the specimens to be used for various asphalt tests.



## 6. Bitumen Extractor

The Centrifuge Extractor is used to establish the bitumen percentage in bituminous paving mixtures. It consists of a removable, precision machined, aluminum rotor bowl, mounted on a vertical shaft.





## 7. Concrete Permeability Testing Apparatus

The concrete permeability testing apparatus is used for the determination of durability characteristics of the rigid pavements or other concrete structures.

The permeability or the ability to resist the flow of water is determined on specimens either casted in the laboratory or obtained by cutting out cores from construction sites.



## 8. California Bearing Ratio (CBR) Test

The California bearing ratio test is penetration test meant for the evaluation of subgrade strength of roads and pavements. The results obtained by these tests are used with the empirical curves to determine the thickness of pavement and its component layers. This is the most widely used method for the design of flexible pavement.



## 9. Tile Abrasion Testing Machine

Tile Abrasion Testing Machine is used for determining the resistance to wear for floor tiles. The tile sample is pressed under a specified load against a grinding path, strewn evenly with an abrasive powder, revolving at the rate of  $30 \pm 1$  rpm. At the end of 100 revolutions of the disc, the second parallel side of the tile is subjected to wear an equal number of revolutions of the disc.



## 10. Los Angeles Abrasion Testing Machine

This machine is for determining the resistance to wear off small size coarse aggregates and crushed rock. The machine consists of a hollow cylinder, mounted on a sturdy frame on ball bearings. A detachable shelf which extends throughout the inside length of the drum catches the abrasive charge and does not allow it to fall on the cover.



## 11. Water Absorption and Specific Gravity testing Apparatus

The density basket apparatus is used to determine bulk specific gravity and water absorption of coarse aggregates



## 12. Ductility Testing Machine

This machine is designed to test three specimens simultaneously. It consists of a carriage moving over a lead screw. An electric motor driven reduction gear unit ensures smooth constant speed and continuous operation. The entire assembly is mounted with water bath completely encased in metal bound hardwood. It is equipped with an electric pump circulator and heater. The temperature is controlled by digital temperature controller.



### 13. Ring and Ball Apparatus

This equipment is used to determine the temperature at which a sample of bituminous material loaded by a 9.5mm diameter steel ball drops a specified distance when heated under specified conditions.



### 14. Temperature Controlled Water Bath

A temperature control water bath is an equipment used to keep bituminous samples over an extended period of time in controlled temperature range.



### **15. Aggregate Impact Testing Machine**

It is for determining the aggregate impact value. The sturdy construction consists of a base and support columns to form a rigid frame work around the quick release trigger mechanism to ensure an effective free fall of the hammer during test. The free fall can be adjusted through  $380 \pm 5$  mm. The hammer is provided with a locking arrangement.

### **16. Thickness Gauge and Flakiness Gauge**

These gauges are used for measuring the shape of the aggregate particles. The elongation index and the flakiness index is tested using the gauges.

### **17. Minor Instruments**

Other minor instruments such as Temperature Radar Gun, Rebound Hammer, Automatic Sieve Shaker, Digital Vernier Callipers, Specific Gravity Bottles etc are also available in the laboratory.



### **III. TRAINING**

Inhouse Internship for B.Tech. III and II-year students is being conducted by the department for enhancing the technical and management skills. The module includes software training, advance laboratory investigations, construction site visits and report preparation.



Traffic Survey at Intersection



Visit to Bitumen Hot Mix Plant



Surveying Training with Total Station



Evaluation of newly constructed road



Presentation of the Training Work



Laboratory sample preparation

## ***IV. RESEARCH***

### **1. COMPLETED PROJECTS**

<b>S.No.</b>	<b>Project Title</b>	<b>Duration</b>	<b>Funding Agency</b>
1	Modelling of bricks for achieving high strength in masonry with low cement consumption	24 Month (2014-15)	DST, Rajasthan
2	Experimental investigations on strength properties of hardened concrete with the use of granite fine	12 Month (2014-15)	DST, Rajasthan

### **2. ONGOING PG PROJECTS**

<b>S.No.</b>	<b>Project Title</b>
1	Bus Rapid Transit Jaipur: An Evaluation of Performance, Design Features, Safety Audit and Impacts
2	Analyses and Design of Traffic Calming Plan for Enhancing Safety: A Case Study of Jagatpura Mahal Road
3	Evaluation of Existing Pedestrian Facilities and Its Potential Improvements from Gopulpura Bypass Junction to Gurjar Ki Thadi Junction
4	Modelling and Simulation of Traffic at Urban Intersection using SUMO software
5	Performance Testing of Aged Bitumen under different Temperature Ranges
6	Redesign and Planning of Traffic Signalization at selected congested Intersections of Jaipur city
7	A study on Partial Replacement Sand Stone Waste in Concrete Pavements
8	A study on safety aspects of National highways crossing from Urban Areas

### 3. PUBLICATIONS

1. Sachdeva, N. & Gupta, L.K., (2020). Analysis of Existing Pedestrian Facilities in Selected Areas of Jaipur City. *International Journal of Engineering Research & Technology*
2. Jain, K. L., & Bhargava, S. (2020). Effect of Alccofine on Durability Properties of Concrete. *International Journal of Concrete Technology*, 6(1), 23-31.
3. Jain, K. L., Sancheti, G., & Gupta, L. K. (2020). Durability performance of waste granite and glass powder added concrete. *Construction and Building Materials*, 252, 119075.
4. Jain, K. L.,(2019). To Study Mechanical Properties of Concrete by Using Industrial Waste Material. *International Journal of Clinical and Experimental Pathology*.
5. A Mathur, DK Sharma, R Choudhary (2018) A Case Study on Analysis of Road Safety concerns on a stretch of National Highway 12 in Rajasthan, *Trends in Transport Engineering and Applications*
6. Sachdeva, N. (2018). Effect of Compaction Temperature on Marshall Properties of Bituminous Concrete.
7. Sachdeva, N., & Sharma, D. K. (2018) Effect of Compaction Temperature on Durability of Bituminous Concrete.
8. Kishan, J. (2016). To effect on strength properties of concrete of by using GGBS by Partial Replacing cement and addition of GGBS without replacing cement. *SSRG Int. J. Civil Eng*, 3, 144-149.
9. Kishan, J. (2016). To study the effect of the partial replacement of cement by using glass powder & fly ash in concrete. *SSRG Int. J. Civil Eng*, 3.



## V. COLLABORATION & ACTIVITIES

### 1. COLLABORATIONS

- **Indian Concrete Institute**



- The Student Chapter of Indian Concrete Institute at SKIT, Jaipur is one of the most active chapters in the country that organizes various inter college events for knowledge dissemination and skill development. Concrete Mix Design Workshop, Quiz Competition, Cube making competition have been widely accoladed by participants from several Institutions.
- The chapter won the Best Student Chapter Award for the year 2019 in Rajasthan.
- Mr. Anirudh Mathur, Asst. Prof. is service as an Executive Committee member of ICI Rajasthan State Centre since 2019.

- **CERTIFIED ROAD SAFETY AUDITOR**

Two faculty members from the department have been certified as Road Safety Auditors by IRC, MORTH and MNIT, Jaipur.



**Malaviya National Institute of Technology Jaipur**  
(An Institute of National Importance)  
**15-Days Road Safety Auditors Certification Course**

**Certificate**  
MNIT/1000113054/RSA2/41



This to Certify that **Dr. Prachi Kushwaha** has successfully completed requirements of **15-Days Road Safety Auditors Certification Course** from 5<sup>th</sup> December 2020 to 19<sup>th</sup> December 2020 organized at MNIT Jaipur, as per the Memorandum of Understanding signed between MoRT&H, IRC and MNIT Jaipur. The course was conducted as per the policy on accreditation of road safety auditors recommended by Indian Roads Congress.

  
**Dr. Arun Gaur**  
Associate Professor, MNIT  
Course Coordinator

  
**Dr. B.L. Swami**  
Professor, MNIT  
Course Coordinator



**Malaviya National Institute of Technology Jaipur**  
(An Institute of National Importance)  
**15-Days Road Safety Auditors Certification Course**

**Certificate**  
MNIT/1000113054/RSA2/35



This to Certify that **Mr. Anirudh Mathur** has successfully completed requirements of **15-Days Road Safety Auditors Certification Course** from 5<sup>th</sup> December 2020 to 19<sup>th</sup> December 2020 organized at MNIT Jaipur, as per the Memorandum of Understanding signed between MoRT&H, IRC and MNIT Jaipur. The course was conducted as per the policy on accreditation of road safety auditors recommended by Indian Roads Congress.

  
**Dr. Arun Gaur**  
Associate Professor, MNIT  
Course Coordinator

  
**Dr. B.L. Swami**  
Professor, MNIT  
Course Coordinator

## 2. ACTIVITIES

### Workshops & Conferences

- RTU-ATU TEQIP-III sponsored Student Workshop on "Design of Traffic Engineering Facilities (DTEF - 2021)" held on 25 - 29 December, 2020

**SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY  
MANAGEMENT & GRAMOTHAN  
RTU(ATU) TEQIP-III**  
Sponsored  
Student Workshop  
on  
"Design of Traffic Engineering Facilities"  
DECEMBER 25-29, 2020

**Prof. (Dr.) R. A. Gupta**  
Hon'ble Vice Chancellor  
RTU, Kota

**Prof. (Dr.) Dhirendra Mathur**  
TEQIP-III RTU(ATU)  
Coordinator

**Prof. (Dr.) A. K. Dwivedi**  
Event Coordinator  
TEQIP-III RTU(ATU)

**Sh. Surja Ram Meel**  
Chairman,  
SKIT

**Dr. S. L. Surana**  
Director (Academics)  
SKIT

**Sh. Jaipal Meel**  
Director  
SKIT

**Dr. Ramesh Kumar Pachur**  
Principal,  
SKIT

**EMINENT SPEAKERS**

**Dr. Rajat Rastogi**  
Professor,  
Department of Civil Engineering,  
IIT, Bombay

**Dr. Akhilesh Kr. Maurya**  
Professor,  
Department of Civil Engineering,  
IIT, Gandhinagar

**Dr. Ankit Gupta**  
Associate Professor,  
Department of Civil Engineering,  
IIT, BHU

**Dr. Shrinivas S Arkatkar**  
Associate Professor,  
Department of Civil Engineering,  
NIT, Surath

**Mr. Jacob George**  
Road Safety Audit Specialist,  
International Consultants and  
Technocrats Pvt. Ltd., New India

**Dr. Ankit Kathuria**  
Assistant Professor,  
Department of Civil Engineering,  
IIT, Bombay

**Ms. Akshika Joshi**  
Traffic Planner and  
Road Safety Engineer  
Indracon, Gurgaon

**Mr. Albin Tharakan**  
IRAP,  
New Delhi

**Mr. Prateek Tak**  
Project Engineer,  
AECOM,  
Mumbai

**Institute Coordinators:**  
Mr. Aniradh Mathur  
(7891931999)  
Dr. Lalit Kumar Gupta  
(9314120770)  
Mr. Nishant Saekheva  
(7737046665)

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More than 750 participants from across the country participated and got benefited from the workshop. Speakers from eminent Institutes and Industry shared their experiences on various topics related to Traffic Engineering Design Facilities, which is one of the booming areas in Transportation Engineering.



- RTU-ATU TEQIP-III sponsored Faculty Development Program on "Emerging Trends in Infrastructure Development (ETID - 2021)" held on February 25 - March 01, 2021

**SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY  
MANAGEMENT & GRAMOTHAN**

RTU (ATU) TEQIP-III  
sponsored Faculty Development Program on  
**"Emerging Trends in Infrastructure Development"**  
25th February - 01st March 2021

**Prof. (Dr.) R.A. Gupta**  
Hon'ble Vice Chancellor,  
RTU Kota

**Prof. (Dr.) Dhirendra Mathur**  
TEQIP-III RTU(ATU)  
Coordinator

**Prof. (Dr.) A.K. Dwivedi**  
Event Coordinator  
TEQIP-III RTU(ATU)

**Sh. Surja Ram Meel**  
Chairman,  
SKIT Jaipur

**Dr. S.L. Surana**  
Dir (Acad.), SKIT Jaipur

**Sh. Jaipal Meel**  
Director, SKIT Jaipur

**Dr. R.K. Pachar**  
Principal, SKIT Jaipur

**EMINENT SPEAKERS**

**Er. Rakesh Srivastava**  
JWIL Infrastructure Limited

**Dr. Srimanta Ray**  
NIT, Agartala

**Er. Pradeep Garg**  
CPWD, Jaipur

**Er. Rakesh Bharti**  
Tata Projects LTD

**Er. Harshil Trivedi**  
Chevrox Construction

**Er. Vikram Gupta**  
Nagar Nigam Jaipur

**Dr. Gaurav Sancheti**  
Manipal University

**Er. Ashwin Prem**  
Pinnacle Infotech

**Er. Rohit Yadav**  
Texel Consulting

**Host Institute Coordinators :**

- Mr. Anirudh Mathur - 7891993999
- Dr. Lalit Kr. Gupta - 9314120770
- Mr. Kishan Lal Jain - 8824431753

SKITJAIP  
skit\_jaipur

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skitjaipurofficial

- More than hundred participants from across the globe participated in the event. Speakers from eminent Institutes and Industry shared their experiences on various topics related to Emerging Trends in Infrastructure Development.

- National Conference on "Development of Smart Cities for Better World (NCDS - 2017)" held on January 18-19, 2019



**DEPARTMENT OF CIVIL ENGINEERING, SKIT, M & G, JAIPUR**

Dear All,

Greetings from the Department of Civil Engineering, SKIT, Jaipur!!!! Please save your dates to attend our Conference!

We are pleased to invite you for National Conference on **Sustainable Development for Smart Cities** at **Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur** to be held on **January 18-19, 2019**. This is a topic that needs in-depth discussion as it has gained immense importance due to development of smart cities in India. We would be delighted to have you at this conference.

We also request you to spread the word amongst your colleagues, research scholars, practicing professionals, etc. and invite them to actively participate in this conference. **Please make sure that you send in your abstract by 8<sup>th</sup> January, 2019 so that the selected papers can be published in the reputed journal.**

**Sub- Themes are as follows but not limited to:**

Urban Mobility & Transportation Planning  
 Road Infrastructure & Drainage  
 Water Management  
 Air Quality Management  
 Solid Waste Management  
 Sustainable Construction Materials  
 Remote Sensing & GIS Applications

Emerging Trends in Geo-Techniques  
 Innovative Technologies in Construction  
 Heritage & Architecture  
 Renewable Energy  
 Resource Monitoring & Management  
 Model City in India  
 Affordable Housing





- National Conference on "Sustainable Development for Smart Cities (SDSC - 2017)" held on August 18-19, 2017

#### ORGANISING COMMITTEE

Er. Amit Jakhra Er. Deepak Sharma Er. Priyanka Gupta Er. Manmohan Sharma Er. Saurabh Kumar Er. Nishant Sachdeva Er. Sunil Kumar Er. Sitaram Saini Er. Shubham Kumawat	Er. J.B. Jangid Er. Ajay Gautam Er. Ankur Mishra Er. Sandesh Saxena Er. Ashish Sharma Er. Tanu Sharma Er. Pooja Jain Er. Anirudh Mathur Er. Ajay Mandrawalia
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#### REGISTRATION PROCESS

For Registration please visit [www.smartcity.skit.ac.in](http://www.smartcity.skit.ac.in)

DELEGATES	REGULAR FEE (₹)
Academicians	1000/-
Research Scholars / Students	800/-
Participants from industries/ Professionals	2000/-

#### CALL FOR PAPER

Original and unpublished research work/ case study on any one or more of the themes are invited from practising engineers, academicians, R&D personnels and consultants. The paper should conform to the following guidelines:

- The official language for the conference is English for all purposes.
- Abstract of the paper must be typed in a single space in 300 words. The full text of the paper must not exceed 12 pages of A4 size in single space using Times New Roman font size 12 including abstract, appendices, tables, illustrations and photographs.

Quality research papers will be published in reputed research journal based on selection of reviewing committee.

#### IMPORTANT DATES

EVENT	LAST DATE
Abstract acceptance	15-06-2017
Intimation acceptance	20-06-2017
Submission of full paper	05-07-2017
Paper review outcomes	15-07-2017
Revised paper submission	25-07-2017
Last date for registration	31-07-2017

#### ABOUT JAIPUR

Jaipur was founded in AD 1727 by Sawai Jaisingh II. Jaipur, the capital of Rajasthan is popularly known as the Pink City with broad avenues and spacious gardens. Jaipur is steeped in history and culture. Here the past comes alive in magnificent forts and palaces, blushed pink, where once lived the Maharajas. The bustling bazaars of Jaipur, famous for Rajasthan jewellery, fabric and shoes, possess a timeless quality and are surely a treasure-trove for the shoppers. This fascinating city with its romantic charm takes you to an epoch of royalty and tradition. Spread around it, in rows, are public buildings, the residences of noblemen, the living and trading quarters of merchants and artisans.

#### ACCOMODATION

Participants have to make their own arrangements for their stay at Jaipur during the conference. Accommodation can be arranged on request and prior information.

#### MODEL & POSTER EXHIBITION

Model & Poster Exhibition will be organized during the conference. Best model and best poster will be awarded separately. For more information, please visit ([www.smartcity.skit.ac.in](http://www.smartcity.skit.ac.in)) or contact **Er. Akash Johari** Contact: 08432764965



## A TWO DAY NATIONAL CONFERENCE ON DEVELOPMENT OF SMART CITIES FOR BETTER WORLD NCDSC-2017

AUGUST 18 –19, 2017



Venue  
**GYAN MANDIR AUDITORIUM, SKIT, JAIPUR**

Organized By



DEPARTMENT OF CIVIL ENGINEERING  
**Swami Keshvanand Institute of Technology,  
Management and Gramothan,**  
Ramnagar, Jagatpura, Jaipur-302017, Rajasthan

Supported By



#### ABOUT THE INSTITUTE

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) inspired from the learning of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for advanced learning. Today the institute is recognized as one of the centers of academic excellence in northern India. The Institute is affiliated to Rajasthan Technical University, Kota for offering postgraduate and under graduate courses in engineering and management. SKIT is putting in efforts for making industry ready engineers and managers through effective Industry-Institute interface. The institute is also accredited by NBA and IE(I).

#### ABOUT CIVIL ENGINEERING DEPARTMENT

Due to extra-ordinary growth in the infrastructure development in the country, the demand for skilled civil engineers is growing with high pace. To meet the growing demand of construction industries, the institute started B.Tech course in Civil Engineering from the session 2011-12. All laboratories of the Civil Engineering department are having latest equipment which are required for research purpose for faculty members and students. Civil Engineering department also provides consultancy services on various technical issues to society.

#### ABOUT NCDSC-2017

The Government of India, Ministry of Urban and development (MoUD) has launched the 'Smart Cities Mission' on 25 June 2015 (<http://moud.gov.in/kms/smart-cities.php>). The objective of this mission is to promote sustainable and inclusive cities that provide core infrastructure and give a decent quality of life to its citizens. Some of the core infrastructure elements in a smart city would include adequate electricity, water supply, sanitation, including solid waste management, efficient urban mobility and public transport, affordable housing & sustainable environment. The strategic components of the 'Smart Cities Mission' are city improvement (retrofitting), city renewal (redevelopment) and city extension (greenfield development). In January 2016, based on the All India Competition, Jaipur was selected as one of 20 smart cities in first round. Engineers have vital role in accomplishment of the major elements of the 'Smart Cities Mission' with this backdrop, Department of Civil Engineering, SKIT, is organizing a two day national conference on 'Development of Smart Cities for Better World'.

This conference is set up to provide a unique platform to bring the major stakeholders and experts of the urban development and governance to discuss and deliberate on the various models of smart city. The Conference also aims to highlight the initiatives and policies of the Indian Government & State Government to accelerate the smart cities project. This would create awareness among the students, academicians, professionals, researchers, industry persons etc. about the need for smart city. It will identify the research gaps to develop and innovate various projects in the field of smart cities. By the virtue of knowledge, multi-disciplinary skill can be developed for getting solutions of the engineering problems.

PATRONS	Shri Raja Ram Meel Shri S.R. Meel, Chairman, SKIT
HOD-CE	Prof. L. N. Datt
CONVENER	Prof. D. K. Sharma
CO-CONVENER	Dr. Neha Shrivastava
ORGANIZING SECRETARY	Er. Ankit Sharma Er. Kishan Lal Jain

#### NATIONAL ADVISORY COMMITTEE

Prof. M. Parida, IIT, Roorkee
Dr. Rajendra Singh, Water Man of India
Prof. A.B. Gupta, MNIT, Jaipur
Prof. B.L. Swami, MNIT, Jaipur
Prof. Praveen Kumar, IIT Roorkee
Prof. A.K. Diwedi, RTU, KOTA
Prof. H.D Charan, RTU, KOTA
Prof. S.C Handa, Director General, Quantum Global Campus, Roorkee
Prof. M. S. Mir, NIT Srinagar
Prof. Suresh Jain, HOD - DEE, TERI University
Dr. B. Uma Shankar, HOD-CE, IIT Hyderabad
Er. Anil Singhal, Chief Engineer, Jaipur Smart City Ltd.
Dr. Rajan Choudhary, IIT Guwahati
Prof. Rajesh Mathur, Director, Manipal University, Jaipur
Dr. (Ar) Tarush Chandra, MNIT, Jaipur
Dr. Pawan Kalla, MNIT, Jaipur
Dr. Sandeep Shrivastava, MNIT, Jaipur
Dr. Krishna Prapoorna Bilgiri, IIT Kharapur
Er. Chitranjan Kaushik, COO, Ecofirst Services Limited, Mumbai
Dr. Hemant Kumar Sharma, ACE, RUIFDGO, Jaipur
Er. Tarun Sharma, SE, JDA, Jaipur
Er. KK Sharma, S.E., Panchayati Raj Department
Dr. Meena Sharma, Manipal University, Jaipur

#### LOCAL ADVISORY COMMITTEE

Mr. Jaipal Meel, Director, SKIT
Prof. S. L. Surana, Director (Academics), SKIT
Prof. S. K. Calla, Director (D&W), SKIT
Prof. R.K. Pachar, Principal, SKIT
Ms. Rachna Meel, Registrar, SKIT
Prof. M.L. Bhargava, Advisor, SKIT
Ms. Abha Meel, Advisor, SKIT
Prof. H.O.Thakare, Chairman, CVDB (IEI)
Prof. Praveen Jain, Chairman (IEI RSC)
Prof. R.A. Gupta, Honorable Secretary (IEI RSC)
Prof. N. K. Bhanthiya, HOD-ME
Prof. S. K. Bhatnagar, HOD-CE
Prof. C.M. Chaudhary, HOD-CSE
Prof. Anil Chaudhary, HOD-IT
Prof. Akash Saxena, HOD-EE
Prof. S.P Garg, Dean-DMS
Dr. Vikas Shrotriya, HOD-DMS
Prof. Sudha Calla, Head, B.Tech-1 Year
Prof. S.N Vijayvargya, Dean-Research
Prof. R.K Jain, HOD- Physics
Prof. Rohit Mukherji, HOD-Mathematics
Dr. Niraja Saraswat, HOD-English
Prof. Archana Saxena, HOD-Chemistry

#### SUB THEMES

Urban Mobility & Transportation Planning	Emerging Trends in Geo-Techniques
Road Infrastructure and Drainage	Innovative Technologies in Construction
Water Management	Heritage & Architecture
Air Quality Management	Green Energy (Renewable Energy)
Solid Waste Management	Resource Monitoring & Management
Sustainable Construction Materials	Model City in India
	Affordable Housing

#### PAYMENT DETAIL

Fee can be paid via online transfer ([www.smartcity.skit.ac.in](http://www.smartcity.skit.ac.in)) or as DD (in favor of "SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN", JAIPUR" payable at Jaipur)

#### CONTACT US

Er. Ankit Sharma (07737238044), *Organizing Secretary*  
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Email : [smartcity@skit.ac.in](mailto:smartcity@skit.ac.in)

## ***VI. FACULTY MEMBERS***

The following faculty members are serving in the area proposed for Centre of Excellence in Transportation Research

- **Dr. Prachi Kushwaha**

Designation: Assistant Professor

Qualification: B.E., M.Tech., PhD

Research Interest: Characterization and performance evaluation of road materials, warm mix technology, Bitumen stabilized materials, Foamed bitumen, Road safety Engineering

Email: [prachi.kushwaha@skit.ac.in](mailto:prachi.kushwaha@skit.ac.in)

- **Er. Anirudh Mathur**

Designation: Assistant Professor

Qualification: B.Tech., M.Tech., PhD\*, AMIE, LM-ICI, LM-IBC, LM-TRG

Research Interest: Road Safety Engineering, Traffic Analysis and Improvement, Intelligent Transportation System

Email: [anirudh.mathur@skit.ac.in](mailto:anirudh.mathur@skit.ac.in)

- **Er. Nishant Sachdeva**

Designation: Assistant Professor

Qualification: B.Tech., M.Tech., PhD\*, AMIE, LM-ICI, eLM-IRC

Research Interest: Material Investigations (Road Material), Material Properties and Pavement design parameters, Ground Improvement Techniques, Grouting, Experimental Modelling

Email: [nishant.sachdeva@skit.ac.in](mailto:nishant.sachdeva@skit.ac.in)

- **Er. Nikhil Kumar Sharma**

Designation: Assistant Professor

Qualification: B.Tech., M.Tech.

Research Interest: Utilization of C&D waste in pavements, Use of plastic waste in flexible pavement, Road safety Audit, Modified the property of soil by applying ground improvement techniques

Email: [nikhil.sharmacivil@skit.ac.in](mailto:nikhil.sharmacivil@skit.ac.in)

- **Er. Sitaram Saini**

Designation: Assistant Professor

Qualification: B.Tech., M.Tech.

Research Interest: Utilization of sand stone waste in flexible pavement