

Memorandum of Understanding

This memorandum of understanding lays down the roles and broad principles of association between the two institutions for their mutual benefit and the benefit of the incubated Students, Faculty, staff & Alumni of **National Institute of Technology Delhi / School of Planning and Architecture ,Delhi** and external entrepreneurs of the proposed **Atal Incubation Center (AIC)** towards creating successful technology ventures, disrupting industries & translating benefits to the society at large in the domain of Transportation.

National Institute of Technology Delhi (NITD) is a leading engineering institutions, (an autonomous Institute of National Importance) which functions under the aegis of Ministry of Human Resource Development, Government of India. NITD works with a mission to seek solutions to important global problems and educate leaders who will make the world a better place by using the power of engineering principles, techniques and systems.

NITD conducts curiosity-driven and problem-driven research in various disciplines of Engineering, Science and Technology, Management, Social Sciences and Humanities generating new knowledge and producing discoveries that provide the foundations for future engineered systems.

NITD is applying for Atal Incubation Center (NITD AIC) to be set up in its campus as per the Guidelines of the Niti Ayog under the Atal Innovation Mission with **Transportation** as one of the focus areas adopted.

NITD desires a strong academic linkage with institutes of repute in the domain of Transportation, for the benefit of several alumni, young entrepreneurs as well as enterprising students, who would want to get transport related businesses incubated at the proposed NITD AIC.

School of Planning and Architecture (SPA) is an Institution of National Importance Under an Act of Parliament (Ministry of HRD, Govt. of India) and was established in 1941. The Transport Planning Department in the School of Planning & Architecture provides high quality Masters & Doctoral degree education in the field of transport planning and management.

Transport Planning Department at SPA, is approached by many entrepreneurs for larger academic advice around their innovative applications in trying to solve problem areas of Urban Transportation. Some of these entrepreneurs are being actively guided by our faculty from time to time, today in an unstructured manner.

With the current national thrust towards innovation and start ups and SPA being one of the premier Town Planning institution in the country (under the MHRD), SPA believes that a formal incubation center is necessary to propel innovations in this domain and promote entrepreneurs. Most use case solutions within urban transportation employ IT / ITES / Electronics technology. However these solution sets have to be derived by careful and in depth research into the problems one is trying to solve - this contextualisation is the Transport Planning departments core speciality.

Examples of applications that are being informally guided by faculty at SPA ,Delhi are as follows:

- Pre-paid Auto Taxi Management System using Smartphone App
- Shuttle Bus management system using smartphone App
- Audio alert Pelican crossing system for the hearing impaired
- School Bus Arrival Alert System using Smartphone App
- Personal Mobility System - PRT for Urban Areas



SPA, Delhi also desires a strong linkage with the NITD AIC, for the benefit of several alumni, young entrepreneurs as well as enterprising students from both institutes who want to get transport related businesses incubated at the proposed Atal Incubation Center.

Role of NITD

1. Provide all such Incubation related facilities as per the guidelines of AIC.
2. Provide latest engineering domain knowledge, idea validation, peer reviews, mentorship
3. Provide linkages to finance, entrepreneurship development programmes.

Role of Transport Planning Department, School of Planning & Architecture

1. Provide latest transport planning domain knowledge, idea validation, peer reviews, mentorship to the Incubates of the NITD AIC.
2. Provide linkages to transportation industry and related knowledge organisations that operate within the domain.

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