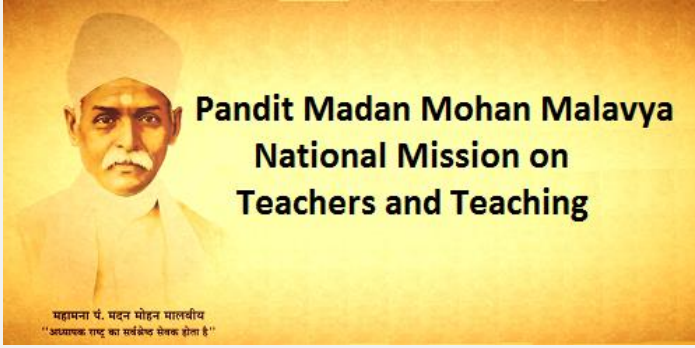




Ministry of Education

Government of India



A Higher Education Teaching Learning Scheme Established under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching Scheme



National Institute of Technology Warangal

An Institute of National Importance

BUILDING FOUNDATION DAY: 07-03-2017

Building Name	:	Teaching Learning Centre
Project Cost	:	Rs.796 Lakh
Foundation Date	:	07-03-2017
Total Plinth Area	:	2283.43 Sq. m. (Ground+2 Floors)
Completion Period	:	21 Months
Project Undertaken by	:	CPWD, Hyderabad

BRIEF PROFILE OF TLC AT NIT WARANGAL

We are very thankful to you for your regular updates on the activities of the PMMMNMTT Centers and for the situational guidance for our Teaching Learning Centre. We are also happy to inform you that the new Building named as “Pandit Madan Mohan Malaviya Teaching Learning Centre” built with funds from the TLC Project, has been recently (22nd October, 2020) has been inaugurated by the Hon’ble Minister of Education, Shri. Ramesh Pokhriyal ‘Nishank’ online by remote switch.



New Building of Pandit Madan Mohan Malaviya Teaching Learning Centre was Inaugurated by the Hon’ble Minister of Education, **Shri. Ramesh Pokhriyal 'Nishank'** on 22nd October, 2020

The Teaching Learning Centre building comprises of the state-of-art training facilities that include a studio for production of video and e-lectures, training halls, seminar halls, a computer lab for developing on-line courses and other learning resources, learning spaces for facilitating interaction among various stake holders. The center also has facilities for hosting on-line courses employing Learning Management Systems like MOODLE.

One of the important objectives of the Centre is to conduct Faculty Development Programmes (FDPs) for the aspiring, newly inducted and in-service faculty in science, engineering, social sciences disciplines in higher education in pedagogy, use of ICT in teaching. FDPs are also conducted in inter-disciplinary and emerging areas of Science and Technology like Nano-materials, Bioinformatics, 3D printing, Internet of Things Artificial Intelligence, Big-Data.

Other activities of the TLC include preparation of print and e-learning materials, offering on-line courses, curriculum design, carrying out research in educational technology, pedagogy, evaluation techniques and integrating ICT into teaching-learning process. Many senior and young faculty of NIT Warangal are associated with this Centre as Core-Team members.

ACTIVITIES OF TLC AT A GLANCE

S. No	Activity	Number of Programmes Conducted	Number of Training Days	Number of Faculty Members Trained	Number of SC/ST Participants Trained
1	Faculty Development Programmes/ Workshops/ Training Programmes	68	335	3428	539
2	Four-Week Induction Training Programmes	3	90	128	26
3	Four-Day Faculty Training Programmes	1	12	313	54
4	Conferences	1	2	71	09
	Total	73	439	3940	628

IMPORTANT FEATURES AND SPECIFICATION OF THE BUILDING

1. Name: Pandit Madan Mohan Malaviya Teaching Learning Centre
2. Floors: Presently Ground + Two Upper Floors (Planned for G+6 Floors)
3. Ground Floor: **Parking, Reception Area, Fire Fighting Avenue, Powerhouse, Generator Room, Ramp for PDA Guests, Lawns**, etc.
4. First Floor: **Seminar Hall, Training Hall with Pantry, TLC Office, Project Coordinator Chambers, Resource Development Cell**, etc.
5. Second Floor: **Academics Studio with Control Room, Training Hall, Digital Pedagogy and Learning Material Development Computer Lab, Conference Hall, Learning Space for Group/Panel Discussions**, etc.
6. **Service Features:** Two Wide Staircases, Lift of 13 Persons (Facility is built-in for Second Similar Lift), Foyers and Lobby; Separate Toilets for Ladies, Gents and PDA Guests on every Floor; Fire Fighting; Wi-Fi, LAN, Cassette Air-Conditioned Interiors with False Roofing, Sliding Windows with Flushing Curtain Shutters
7. **Civil Structure:** RCC Framed Structure with Isolated Footings, Walls with Brick Work, Fly Ash Cement Bricks, Internal and External Plastering, Putty Finishing Walls with Low VOC Paint, Flooring with Granite, Vitrified Tiles and Ceramic Tiles at Designated Areas, Wooden Tiles in the Studio, Walls Wood-Paneled Interior Walls, Front Rear Elevations with Structural Glazing.

SALIENT FEATURES OF ELECTRICAL AND MECHANICAL SERVICES

1. The required lighting levels are given as per ‘Accessible India Campaign’ with LED Lighting Fixtures."
2. MRL (Machine Room Less) Lift with all safeties and features as per ‘Accessible India Campaign’ is provided.
3. Provided Fire Safety Systems as per National Building Code-2016 including Down Comer System, Manual Fire Alarm System and Fire Extinguishers.
4. Seminar Halls/ Training halls are provided with aesthetic lighting, 3 star rated Cassette type AC units, and State of the Art Audio Video Systems.
5. Power distribution is provided by means of LT panels and compact rising mains in separate electrical shaft.
6. Separate Uninterrupted Power Supply System (UPS) is provided for back up to LAN & computer systems.

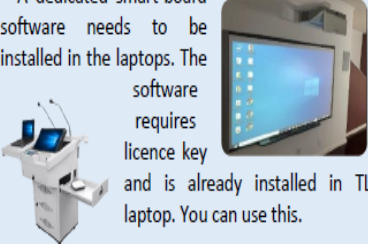





TLC Civil Works: Total Carpet Area

S.No	Floor	Sq. mt	Sq. ft.
1	Ground floor	500.11	5383.14
2	First Floor	1000.30	10767.14
3	Second Floor	997.54	10737.43
4	Parking	541.53	5828.98
Total Carpet Area (Business)		2283.00	
5	Landscaping & Amenities	2960.52	31866.77
Total		6000.00	64583.46



The Virtual Inauguration of the Teaching Learning Centre can be watched at <https://youtu.be/z1vfxfcTwHI>

ACADEMIC FACILITIES IN TLC BUILDING

S. No	Feature	Unique Features	Applications
1	Training Hall (AC) equipped with <ul style="list-style-type: none"> • Smart Board* • Roof-Mounted LCD Projector • Motorised Pulldown Big Screen • Stand-Mounted White Board • Public Address System • Electronic Podium • Video-Capturing Provision 	* A dedicated smart-board software needs to be installed in the laptops. The software requires licence key and is already installed in TLC laptop. You can use this. 	<ul style="list-style-type: none"> • Synchronus and Asynchronus Classes • Dias Lecture Recording • Handwriting to Text • Digital Colour Chalk • Video-Capturing Provision • Video Lecture Editing. • WiFi Router 
2	Seminar Hall (AC) equipped with <ul style="list-style-type: none"> • Roof-Mounted LCD Projector • Motorised Pulldown Big Screen • Stand-Mounted White Board • Public Address System • Electronic Podium • Video-Capturing Provision 	Podium (with built-in-PC)  <p>Spacious Dias and Setback before the multipurpose seats (Staggered Seating possible with Physical Distancing as walkable space is available on all sides and in the middle of the rows)</p>	<ul style="list-style-type: none"> • Synchronus and Asynchronus Classes • Dias Lecture Recording • Video-Capturing Provision • Live Demonstrations of Experiments <i>(Chemicals and Hazardous Materials Not Permitted)</i> • Video Lecture Editing • WiFi Router
3	Learning Resources Development Lab (AC) equipped with <ul style="list-style-type: none"> • 60 HP Desktop Computers, configured by <ul style="list-style-type: none"> ◦ Intel i5 8500 CPU 3.00 GHz 64 bit ◦ 8GB RAM; 1TB SATA HDD ◦ Built-in-Wi-Fi Transceiver ◦ 19" LED Monitor 1600:900 resolution) ◦ Built-in-Bluetooth ◦ HDMI/VGA/USB3.0/AV/LAN Ports ◦ Windows 10 Pro and MSOffice • Roof-Mounted LCD Projector • Motorised Pulldown Big Screen • Stand-Mounted White Board • Public Address System • Wi-Fi Enabled and Ethernet Connected 		<ul style="list-style-type: none"> • Development of Online Courses • Development of Virtual Laboratories • Development of Animations/VR/AR/XR Materials • Holding Online Lectures/Classes • Holding Online Examinations • Accessing Online Learning Resources • Dias Lecture Recording; Video-Capturing • Live Demonstrations of Virtual Experiments • Web-Designing; E&ICT OPERATIONS • Faculty Development Programmes on IT Tools • Applications of OBS, LMS-MOODLE, H5P, Screencast-o-Matics • Mathematical Applications, Data Processing, etc
4	Studio with Control Room (AC) equipped with <ul style="list-style-type: none"> • Studio-Grade Controlled Acoustics • Dedicated Video Recording Hardware • 4K High End Cameras (3 Nos) • Huge Open Space for Liberal Movements • Customisable Settings • Green Matting • Live Shows/Recording • Wooden Panel Flooring • Furniture for Panel Discussion • Roof-Mounted LCD Projector • Motorised Pulldown Big Screen • Wi-Fi Enabled 	The expertise of a Start-Up company, A-Theorem with expertise on Motion Capturing, Virtual Reality (VR), Augmented Reality (AR), Extended Reality (XR), Animations Virtual Lab, etc. seems to be useful to the needs of NITW, especially, in the wake of the COVID-19 and the online education to be implemented from the current Semester. 	<ul style="list-style-type: none"> • Videorecording of Online Courses • Videorecording of Virtual Laboratories • Holding Online Lectures/Classes • Holding Online Debates/Discussions/Quizzes • Holding Realtime Panel Discussions and Recording • Dias Lecture Recording; Video-Capturing • Engagement with a Start-Up company, A-Theorem 

S. No	Feature	Unique Features	Applications
5	<p>Centre for Educational Technology in Liaison with A-Theorem, a Start-Up Company (AC) equipped with</p> <ul style="list-style-type: none"> • Roof-Mounted LCD Projector • Motorised Pulldown Big Screen • Stand-Mounted White Board • Public Address System • Educational Tools Knowhow • Educational Technology Knowhow • Video-Capturing Provision • Technical Expertise of the A-Theorem 	<p>The expertise of a Start-Up company, A-Theorem with expertise mentioned at Item 4, is advised to offer its expertise to NIT Warangal in liaison with the TLC and CET.</p> 	<ul style="list-style-type: none"> • Huge open space for fabrication of low-cost and no-cost teaching aids • Development of working models as teaching aids • Novel Educational Technology Tools • Innovations in Educational Tools • Motion Capturing • Virtual Reality (VR) • Augmented Reality (AR) • Extended Reality (XR) • Animations Virtual Lab <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-top: 10px;"> <p>In Association with A-Theorem, a StartUp Company. Its Office will be operated from this premises</p> </div>
6	<p>Other Amenities:</p> <p>The TLC is the closest Academic Structure to the Main Gate and is immediately behind the Kalam International Guest House. Some general salient features are:</p> <ul style="list-style-type: none"> • State of the Art Elevation with Lawns and metal hoarding at entrance for banners • Ramp from Road to Inside-Building • Spacious Foyer (Ground Floor) for Poster Presentations • Reception Counter (Ground Floor) and Office (1st Floor) • Roofed Parking Area Separately for 4- and 2-Wheelers • Huge Learning Open Space (2nd Floor) • Committee Hall (2nd Floor) • Generator Back Up, Fire Safety, Dual Staircases, Lift, Tidy Washrooms on Every Floor (Separately for Ladies, Gents, PDA); Immediate neighbour to Visweswaraiiah Skill Development Centre, Computer Centre, Visitors Block 		

Photo gallery reflecting some of the glimpses of the activities conducted by the TLC of NIT Warangal

