

### RESOURCE PERSONS FOR FACULTY DEVELOPMENT PROGRAMMES:

Guest faculty from IITs, I.I.Sc, NITTRs, NITs, IISERs, Central Universities, NIT Warangal, etc., will deliver lectures, conduct workshop sessions, laboratory sessions and teaching practice sessions.

### FACULTY DEVELOPMENT PROGRAMMES (FDP) ORGANIZED AT NIT WARANGAL:

- ❖ Instructional design and delivery methods
- ❖ Process oriented guided inquiry learning (POGIL)
- ❖ Pedagogical skills for teacher-aspirants in science and engineering education
- ❖ Technologies for development and delivery of materials for e-learning
- ❖ Communication skills for effective teaching in higher education
- ❖ Free and Open Source Software in teaching and learning
- ❖ Developing OER-enabled e-learning courses using MOODLE
- ❖ Effective teaching and learning of Digital Electronics
- ❖ Innovative methods in teaching Mechanical Engineering
- ❖ 3-D Printing and Additive Manufacturing with Hands-On Experience
- ❖ Teaching and Learning Physics through Hands-On Experience
- ❖ Teaching and Learning Nano Chemistry through Experiments

### FACULTY DEVELOPMENT PROGRAMMES (FDP) IN OTHER INSTITUTIONS:

To enable wider access and ease of operation, the TLC has been holding Faculty Development Programmes (FDPs) through Workshops and Training Programmes on the campuses of other institutes, as well, on mutual convenience and collaboration. The institutions, interested in hosting the FDPs, may contact the Coordinator, Teaching Learning Centre, for further details and modalities of organisation.

### NETWORKING WITH OTHER TEACHING LEARNING CENTRES

There are many Centres, including TLCs, under the PMMMNMMTT all over the country. The TC at NIT Warangal has been networking with PMMMNMMTT Centres of IIT Bombay, IIT Madras, IIT Hyderabad, IISc Bangalore, etc among others.

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**National Institute of Technology Warangal**  
*Pandit Madan Mohan Malaviya National*  
*Mission on Teaching and Teachers*  
**(PMMMNMTT)**



# TEACHING LEARNING CENTRE

# BROCHURE



## Teaching Learning Centre

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**PREAMBLE:**

The Teaching-Learning Centre (**TLC**) has been established at NIT Warangal with grants from the MHRD, under the scheme, 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching' (PMMMNTT). Under this Scheme, a separate building is under construction, uniquely to TLC activities, with the state-of-art training facilities that include a studio for production and uploading of video and e-lectures on various subjects of higher education, training halls to train faculty in various theme areas of science & technology, humanities and social sciences, linguistics and communication skills, pedagogy and cognition evaluation, etc among others. This Centre has some cyber space learning platforms like MOODLE and MOOCs, etc also. Many senior and young faculty members across various departments of the Institute are associated with this Center as the Core-Team. One of the important objectives of the Center is to conduct training programs for aspiring, newly inducted and in-service faculty in Science, Engineering and Social Sciences disciplines in higher education. Other activities of the TLC include preparation of print and e-learning materials, offering courses on-line, curriculum development, carrying out research in educational technology and pedagogy and integrating with E&ICT into teaching-learning process. The TLC has special programmes of training for faculty hailing from underprivileged and marginalized sections of the society besides women-faculty.

**VISION:**

- ❖ To be a Centre of Excellence for enhancing quality of Teaching and Learning processes and activities of Higher Education in Sciences, Engineering and Technology and Humanities and Social Sciences.

**MISSION:**

- ❖ To promote the scholarship of teaching and learning among the faculty of technical and science education in Institutes of Higher Learning
- ❖ To facilitate research and training in development of new instructional and assessment methods in various subjects of higher learning
- ❖ To disseminate the best practices in teaching, learning and assessment among stake holders of higher education
- ❖ To develop open and free-access educational and learning resources

**OBJECTIVES:**

- To develop discipline-specific learner-centred curricula, pedagogy and evaluation methods and disseminate them to teachers of undergraduate and post-graduate institutions
- To sensitise reforms in curricula of higher education that facilitate generation of updated knowledge in inter-disciplinary and applied areas in tune with global trends
- To conduct short term, medium term and long term training programmes for newly inducted and in-service teachers of all subjects of higher learning, in general and subjects of science and technology, in particular, to make them more effective and responsive to the learners' needs
- To develop learner-centred textbooks, handbooks, e-learning materials etc and make the TLC as one of the National Level Repositories of Teaching Learning Resources
- To carry out research on pedagogical and evaluation methods in higher education and suggest interventions to improve the academic standards of higher education institutions for better global ranking
- To develop pedagogical practices that integrate with E& ICT programmes

**ACTIVITIES:**

1. Faculty Development Programmes
2. Empowering young and newly inducted faculty with the modern tools of teaching and effective classroom
3. Curriculum Design of new interdisciplinary and multidisciplinary courses (Both theory and lab), Development of teaching and learning materials for newly developed courses
4. Development of Open Educational Resources via; Videos, e-learning materials and maintenance of cyber platforms for open access
5. Conducting Online courses through MOODLE and MOOCs
6. Dissemination of best academic practices through TLC e-News Letter and web-hosting
7. Action Research on Pedagogy, Integrating ICT in Teaching and Learning
8. Specially targeted programmes for enhancing communication and effective teaching skills of teachers