



Professor M.P.Poonia is former Vice Chairman of All India Council for Technical Education (January 2017 to January 2023). He also held the additional charge as Chairman, Commission for Scientific and Technical Terminology (CSTT), Ministry of Education, established with an objective to evolve technical terminology in all Indian Languages(10.09.2021-26.05.2022). Currently he is Chairman of Distance Education Council of Punjab Technical University, Jalandhar. He has also recently been offered a key role as a 'Member' on the 'Inda- specific strategy Group' of Asian Institute of Technology, Thailand, an international institute to aid in strategies and initiatives, identify opportunities and collaborations. He is specialized in the field of Mechanical Engineering (IC Engines, Gas Dynamics, Ref. & AC), Renewable Energy and Sustainable Development. He is a meritorious graduate Engineer from MBM Engineering College, Jodhpur in 1985 and M.Tech. in 1990 from IIT, Delhi. He further secured Ph.D in Thermal Engineering from IIT, Delhi in 1996.

Prof. Poonia has 37 years of experience in various capacities in different institutions/ organizations. He initially started his career as Professor in M.N.I.T., Jaipur in the year 1999 and continued there upto 2004. During this period, he taught several subjects like IC Engines, Gas Dynamics, Refrigeration and Air Conditioning and Renewable Energy Sources to Undergraduate and Post Graduate students. Later, in the year 2004, he joined as Principal, Government Engineering College, Bikaner. At that moment the institute was in nascent stage, and a huge responsibility was entrusted upon him by the State Government to do the needful by way of strengthening the financial, administrative as well as academic improvement of Govt. Engineering College, Bikaner. As a result of strenuous efforts and teamwork during the short span of 2 years i.e. 2005-07, the institute geared up the construction activities like construction of academic blocks, administrative block, workshop block, canteen, hostels and completed it beyond the required level. On the other hand, the intake strength of students was 500 which later rose to 7000 students when he relinquished the charge of Principal, Government Engineering College, Bikaner. Consequent upon the hard work and put in best efforts, the following is the glimpse of landmark achievements of Government Engineering College, Bikaner during his tenure:

- Ranked first in Rajasthan by Career 360.
- Declared as Model Institute of Rajasthan Government in State Legislative Assembly. *Awarded State Level Second Prize for Clean and Green campus.
- Academic result of college students is among the best in Rajasthan (more than 95% result).
- Within short span, college has collaborated with the industries and generating revenue of over 2 Crore rupees per year through consultancy and testing services.
- More than 50,000 books in Library, Digital Library, E-Journal and DELNET facility, Eklavya Channel, 1219 Educational Lecture DVDs from IIT-Delhi and IIT-Kharagpur Keeping in view the targets achieved by him, Government of Rajasthan assigned him another task for setting up of three other State Government Technical Institutions/ Engineering Colleges namely:
 - Centre for E-Governance, Jaipur which was completed during 2006-08.
 - Engineering College, Bharatpur, completed in 2007. *College of Engineering and Technology, Bikaner completed during 2007-09

Consequently, Prof. Poonia was honoured on 15th August, 2008 by the Government of Rajasthan for his extraordinary and meritorious services rendered during this period. His stay at Government Engineering College, Bikaner was marked as a milestone in his bright career.

In the year 2010, Prof. Poonia reverted to his parent department i.e. M.N.I.T, Jaipur. In view of his wonderful job and leading experience in Govt. Engineering College, Bikaner, he was assigned the responsibility of Dean-Planning and Development at M.N.I.T., Jaipur. During this period, he also contributed towards academic and administrative growth of MNIT, Jaipur. He planned policy formulation and its implementation in such a way that MNIT, Jaipur was marked as one of the prestigious institutions in North India.

One more feather was added to Prof. Poonia's cap in the year 2012, he was appointed by the Government of India, Ministry of Human Resource Development as Director of National Institute of Technical Teachers Training and Research, Chandigarh. The institute is fully funded by the Government of India. He made significant contributions towards upgraded teaching-learning processes and various developmental activities in the institute. He has been conferred National Award for the Empowerment of Persons with Disabilities - 2013 by the Hon'ble President of India on 3rd December, 2013 in New Delhi in recognition of outstanding performance in the field of Best Institution for Empowerment of Persons with Disabilities in the country during his tenure as Director, NITTTR, Chandigarh.

Prof. Poonia has guided research at Masters and 06 Doctoral level students and published 80 papers which find place in International and National Journals. He has published several books (13 nos.) and manuals (02 nos.) in the field of Mechanical Engineering. Names of books as mentioned below:

Books	
"Environmental Studies" 1st Edition	M.P.Poonia & SC Sharma
Elements of Mechanical Engineering, 3 rd Edition	D.S.Bedi & M.P.Poonia
Biofuels - Engine Performance and Exhaust Emissions	M.P.Poonia & S.K.Mehta
Biodiesel - Performance Evaluation of Internal Combustion Engines	M.P.Poonia & S.K.Mehta
Objective Review in Internal Combustion Engines and Automobile Engineering	MP Poonia
Production Systems Management	MP Poonia, Upender Pandel, BL Salvi
Environmental Technologies for Sustainable Development	Upender Pandel MP Poonia
Energy Technologies for Sustainable Development	Upender Pandel MP Poonia
Waste to energy	Sanjay Mathur Upender Pandel, MP Poonia, J. Mathur
Elements of Mechanical Engineering	PN Gupta M.P.Poonia
Article in Environmental Science and Pollution Research published "A durability study of a compression ignition engine operating with Thumba (Citrullus colocyntis) vegetable oil."	Sh. N.L. Jain, M.P.Poonia, SL Soni, D Sharma, AK Srivastava, H Jain

He has more than 50 videos related to Management Skills, Sustainable Development, NSQF, Skilling India, Internal Combustion Engines, Preparing Students for Job Interview, 34 Number of Slides shares uploaded on Google International Conferences organized.

Dr. Poonia has carried out three research projects sponsored by AICTE and one project sponsored by DST, Delhi. Professor Poonia is a member of several bodies like IEL, ISTE, Society of Automotive Engineers.

Prof. Poonia has participated in the International Programme on “Technical and Vocational Education and Training Leaders in Education Programme” from 3 - 7 December, 2012 at ITE Education Services, Singapore organized by Colombo Plan Staff College for Technical Education, Manila, Philippines.

Keeping in view his meritorious contributions in the field of Technical Educations, he was awarded “Eminent Engineering Personality Award-2012” on Engineers Day at Geeta Institute of Management & Technology, Kanipla, Kurukshetra. He has the honor of receiving the Life Time Achievement Award in Technical Education - Indo Asia Leadership Awards 2023 in September.

As Vice Chairman of the All India Council for Technical Education (AICTE), he was engaged in planning, coordination and implementation of AICTE activities, schemes and novel initiatives, with a special focus on improvement of access, equity and quality in technical education in the country. Following initiatives deserve a special mention:

- Development of an outcome-based Model curriculum for technical education (Diploma, Undergraduate and Post Graduate Courses in Engineering and PGDM & MBA Courses) in tune with the latest industry requirements.
- Introduction of mandatory 3-week induction program offered at the commencement of first year to acclimatize the students to their new environment based on UHV (UHV-1 in AICTE’s Model Curriculum). Also, a mandatory UHV-II course in the 2nd year syllabus as the first tangible input on values for the students has also been included to reinforce and exemplify a holistic and humane world-vision.
- Setting up of AICTE’s Training and Learning (ATAL) Academies for capacity building in emerging areas like AI, IoT, ML, AR/VR, Robotics, Block Chain Management etc.
- Formulating the Training Policy for Technical Teachers’.
- Evolved policy of Mandatory Internship for students to align academics with Industrial needs.
- Designed the policy for Exam Reforms for a more comprehensive assessment.
- Designed an innovative model curriculum with a focus on promoting innovation, creativity and startups culture and aimed at strengthening academia-industry knowledge transfer.
- Strategized the continued engagement of talent pool in the academic world through schemes like Margdarshak and Margdarshan.
- Promoted and strengthened the culture of transparency in the administration through **E-governance**, digitalization of payments etc.
- Enhanced focus on innovation, incubation, IPR, startups, and academia-industry knowledge transfer.
- Was instrumental in launching a new initiative called NEAT, a scheme for using technology for better learning outcomes with AICTE as its implementing agency.
- Developed AICTE Student Learning Assessment Portal to conduct assessments of students' members and faculty towards improving overall competence of students which promotes holistic assessment of faculty and students' learning outcomes.
- Executed the project of Technical Book Writing in various Indian Languages. 2021-22. As per AICTE’s Model Curriculum released technical books in 8 Indian languages for first year students of diploma level (12 books) and UG level (10 books) based on Outcome Based Education.
- Was involved in the project of developing technical terminology in all Indian Languages (an enabler for creating a repository of ~9.5 lakhs technical words) and published technical dictionaries/glossaries, definitional dictionaries and encyclopedias.

AICTE alongwith NCVET and CBSE and MOE worked on the National Credit Framework for the mobility of students. Was a Member on the High Level of National Credit Framework (NCrF) Committee, which submitted its report to Govt. of India.

Prof. Poonia has been member of the following organizations:

- Member of Senate, Thapar University, Patiala
- Member, All India Council of Technical Education (NWRO Chandigarh)

- Member, Governing Body of NC College of Engineering & Technology, Israna, Panipat *Member, Pushpa Gujral Science City, Jalan, Member, State Steering Committee under Technical Education Quality Improvement Programme (TEQIP) of Haryana State.

(Prof. M.P. Poonia)

