



ISTE STUDENTS CHAPTER

MURUGAPPA POLYTECHNIC COLLEGE

Sathyamurthy Nagar, Chennai – 600 062



REPORT ON ISTE TAMILNADU & PUDUCHERRY SECTION SPONSORED

STATE LEVEL TECHNICAL PROJECT COMPETITION & EXHIBITION

“CREATE 2018”

[Challenges in Recent and Emerging Advances of Technological Environment]

A state level technical project competition & exhibition for Diploma Engineering students “CREATE 2018” was conducted on 23rd February 2018 at Murugappa Polytechnic College. The event is sponsored by ISTE Tamilnadu & Puducherry Section and Co-sponsored by M/S Tube Products of India Ltd., Chennai, M/S CLIPTOS Technologies, Chennai, M/S ELTA Tools & Dies, Chennai, M/S Balaji Electrical, Chennai and TDM Batch 2008-2011. The event brought together students from various polytechnic colleges across the state for sharing of knowledge in the emerging trends related to core branches of Engineering and for exhibiting their talents by fabricating and demonstrating their projects.

Students projects were evaluated by a team of jury consist of an Industrial expert and an expert academician. The projects were evaluated considering their new ideas, innovation, and execution of the ideas, working of the projects, their involvement and the student’s presentation skills.

Students from all departments and years visited the exhibit of the projects after competition. It gave them new ideas, improvement in knowledge & skills, confidence in shaping their ideas. Around 600 school students from Classes 8th & 9th were also visited the exhibition. School students found the exhibition more interesting and innovative. They also motivated to choose engineering as their career.

The best projects were awarded with Cash prizes, shields, medals and certificates. A sum of Rs. 5,000/- as First Prize, Rs. 3,000/- as Second Prize and Rs. 2,000/- as Third Prize was awarded to the

winners stream wise for external projects. A sum of Rs. 1,200/- as First Prize, Rs. 900/- as Second Prize and Rs. 600/- as Third Prize was awarded to the department wise winners for Internal projects. First year students participated in the Science Project Competition were also awarded cash prizes. Chief Guest for the Prize distribution function **Dr. K.Manivannan, Vice-President/ISTE New Delhi, Vice-President/IFEES Executive Director and National Experts Advisory Committee Member – NCSTC-DST, MS&T, Govt. of India** distributed the cash prizes, Medals and Certificate to the winners of the competition. The Chief Guest gave an insight about converting the projects into entrepreneurial ventures and motivated the students to become entrepreneurs. Principal Dr. K.Sudhagar presided over the function and wished the participants and offered suggestions to the participants for their betterment.

The general feedback obtained from the participants, visitors, juries and department coordinators are encouraging.

A total of 193 projects participated in the competition and exhibited to the visitors including 70 projects from external polytechnic colleges.

The following experts were participated as judges to select the best projects and motivated the student participants.

1. **Mr. K.Madhiyazhagan**, Assistant Divisional Engineer, Highways Department, Chennai.
2. **Mr. Thomas Babu**, Director, CLIPTOS Technologies, Chennai.
3. **Mr. V.Santhanam**, Sr. General Manager, T.I. Cycles of India., Chennai.
4. **Mr. S.Ramachandran**, Consultant, Technician Solutions (P) Ltd., Chennai.
5. **Mr. S.Selvan**, Head/Manufacturing, TAFE-ABU, Chennai

The projects from following 19 polytechnic colleges were participated in the competition along with projects of Murugappa Polytechnic College students.

1. Central Polytechnic College, Taramani, Chennai.
2. P A C Ramasamy Raja Polytechnic College, Rajapalayam
3. S.R.M. Polytechnic College, Potheri
4. P S G Polytechnic College, Coimbatore
5. Thiagarajar Polytechnic College, Salem
6. Dr Dharmambal Govt. Polytechnic College For Women, Tharamani
7. V Ramakrishna Polytechnic College, Thiruvottiyur
8. Institute of Tool Engineering, Dindugal

9. T.S.Srinivasan Polytechnic College, Vanagaram, Chennai.
10. St. Michael's Polytechnic College, Avadi, Chennai.
11. AMK Technological Polytechnic College, Sembarambakkam, Chennai.
12. T.J.S Polytechnic College, Chennai
13. Adhiparasakthi Polytechnic College, Melmaruvathur.
14. Er. Perumal Manimekalai Polytechnic College, Hosur
15. Sri BalajiPolytechnic College, Vandalur, Chennai.
16. HIET Polytechnic College, Chennai.
17. P.T.Lee C.N Polytechnic College, Chennai.
18. Sai Ram Polytechnic College, Chennai.
19. Meenakshi Krishnan Polytechnic College, Pammal

The following are the list of projects won prizes in the Competition.

Stream/ Department	Category	Prize	Title of the Project	Institution
Civil	External	I - Prize	An experimental investigation on Transport Concrete using Optical Fibre	Thiagarajar Polytechnic College, Salem
		II - Prize	FAL-G concrete using sodium-carbonate and sodium silicate	P A C Ramasamy Raja Polytechnic College, Rajapalayam
		III - Prize	Treatment of waste water and recirculation	Central Polytechnic College, Taramani, Chennai.
	Internal	I - Prize	Smart Traffic Light and Speed Regulator System	MPC
		II - Prize	Maintenance of Canal	
		III - Prize	Ecological Bricks from Polythene waste and Clay	
Computer	External	I - Prize	Gas Leakage detector using Artificial Intelligence	Sri BalajiPolytechnic College, Vandalur, Chennai.
		II - Prize	College website using biometrics	S.R.M. Polytechnic College, Potheri
		III - Prize	Black box system for Automobiles	Little Flower Polytechnic College, Porur, Chennai
	Internal	I - Prize	IOT Garbage monitoring system	MPC
		II - Prize	Wi-Fi based notice-board	
		III - Prize	Self-Driving RC Car	

Stream/ Department	Category	Prize	Title of the Project	Institution
EEE	External	I - Prize	Electrical power generation from water, while filling overhead water tank.	T.J.S Polytechnic College, Chennai
		II - Prize	Deaf and dumb hearing aid	Sri Balaji Polytechnic College, Vandalur, Chennai.
		III - Prize	Automatic street light glow on with vehicle movement detection	V Ramakrishna Polytechnic College, Thiruvottiyur
	Internal	I - Prize	Blind men navigation	MPC
		II - Prize	Automatic home security using arduino	
		III - Prize	Controlling the head of windmill turbine.	
ECE	External	I - Prize	Home Automation	P S G Polytechnic College, Coimbatore
		II - Prize	Smart Irrigation System	T.S.Srinivasan Polytechnic College, Vanagaram, Chennai.
		III - Prize	Ultrasonic Radar using Arduino Microcontroller	Adhiparasakthi Polytechnic College, Melmaruvathur.
	Internal	I - Prize	Accelerometer based Gesture controlled robot	MPC
		II - Prize	Solar dryer using heater coil and DC motor	
		III - Prize	Traffic density detection and adjusting signals using IR Sensor and camera	
MECH	External	I - Prize	Fabrication of automatic drilling and reaming attachment control using PLC	AMK Technological Polytechnic College, Sembarambakkam, Chennai.
		II - Prize	Design and fabrication of pneumatic three axis modern trailer	St. Michael's Polytechnic College, Avadi, Chennai.
		III - Prize	Fabrication of remote controlled lawn mower	T.S.Srinivasan Polytechnic College, Vanagaram, Chennai.

Stream/ Department	Category	Prize	Title of the Project	Institution
MECH	Internal	I - Prize	Multipurpose agricultural machine	MPC
		II - Prize	Design and fabrication of box transfer machine	
		III - Prize	Auto charging grinding machine using solar power	
Tool & Die Making	Internal	I - Prize	Design & fabrication of injection moulding tool for Murugappa logo shield	MPC
		II - Prize	Design & fabrication of tender coconut cutting machine	
		III - Prize	Design & fabrication of a fixture for engine connecting rod.	
Robotics	Internal	I - Prize	Distribution transformer heat monitoring and control system	MPC
		II - Prize	SPY-BOT	
		III - Prize	Automatic railway platform and gate.	

Thiru K.S.Sekar, Faculty Advisor-ISTE Students chapter and Tmt. S.Rajalakshmi, Incharge/General Engg with the team of ISTE Students Chapter office bearers made the arrangements for the event.
