

# **COSMIC - Young Engineer Award**

## **for Contribution in the field of**

# **Electronics and Communication Engineering**

**Awarded on 6<sup>th</sup> Jan 2017**  
**at AETM 2017 - Bangkok, Thailand**



**Amit Kumar Varshney**  
**Electronics and Communication Engineering, SKFGI, India**

Amit Kumar Varshney, an M. Tech in Electronics and Communication Engineering (Microwave) Gold Medalist securing First Rank from Burdwan University is working as Assistant Professor at Supreme Knowledge Foundation Group of Institutions, Mankundu, Maulana Abul Kalam Azad University of Technology, West Bengal, India. He is a budding researcher in the area of microwave engineering, in general, and vacuum electron devices (microwave tubes), in particular. Working towards his Ph D degree, he has published himself in a good number of peer-reviewed journals and conference proceedings. He has successfully collaborated for his research with the national laboratories like Central Electronics Engineering Research Institute (CEERI), Pilani, India (CSIR) and Microwave Tube Research and Development Centre (MTRDC), Bengaluru, India (DRDO) as evidenced by his co-authorship of research papers with the scientists of these laboratories (CSIR-CEERI and DRDO-MTRDC).

He has developed the analysis of helical slow-wave structures with tapered-geometry dielectric helix supports for wideband electronic warfare traveling-wave tubes (TWTs). He has also developed the concepts for research in the area of klystrons. He is now exploring the potential of metamaterial loading of the helix of a TWT and the cavity of a klystron for potential of such loading for futuristic application in improving the performances of these devices.