

# International Conference on Advances in Mathematical Sciences and Applications in Engineering & Technology (AMSAET 2017)

with  
Symposium on Mathematical Modeling of Ecological, Environmental and Biological System [Reference - Arid Lands]

January 27-29, 2017

IN ASSOCIATION WITH



**Gwalior Academy of Mathematical Sciences (GAMS)**  
(21<sup>th</sup> National Cum 5<sup>th</sup> International Conference of the Academy)

TECHNICAL SPONSORS



Rajasthan Academy of Physical Sciences



Indian Society of Lighting Engineers



Indian Society for Technical Education (ISTE)



Fire & Security Association of India

ALL THE ACCEPTED & PRESENTED PAPERS SHALL BE SUBMITTED TO INTERNATIONAL BULLETIN OF MATHEMATICAL RESEARCH & GAMS JOURNAL OF MATHEMATICS AND MATHEMATICAL BIO SCIENCES

## AMSAET 2017 COMMITTEES

### CHIEF PATRON

**Dr. S. M. Seth**  
Chairperson, Poornima University  
Chairman, Poornima Group of Colleges & PJ Foundation

### PATRONS

**Dr. K. K. S. Bhatia**  
President, Poornima University  
**Shri Shashikant Singhi**  
Director General, Poornima Foundation

### GENERAL CHAIR

**Dr. Manoj Gupta**, Provost, Poornima University  
**Dr. Mahesh Bundeale**, Dean (R&D), Poornima University

### ORGANIZING CHAIR

**Dr. Shilpi Saxena**, Dean (SBA), Poornima University

### PROGRAM CHAIRS

**Track 1** : Dr. Nupur Srivastava, Prof., Dept. of Mathematics, Poornima University  
**Track 2** : Dr. Arun Devdhar Dewedi, Prof., Dept. of Electrical & Electronics Engineering, Poornima University  
**Track 3** : Dr. Dipti Mathur, Prof., Dept. of Chemistry, Poornima University

### INTERNATIONAL ADVISORS/ EXPECTED SPEAKERS (In Alphabetical Order)

Prof. Aditya Shastri, India	Prof. (Dr.) Kailash C. Patidar, Africa
Prof. (Dr.) A. H. Siddiqi, Saudi Arabia	Prof. M. A. Pathan, India
Prof. (Dr.) A. K. Kulkarni, India	Prof. (Dr.) Milan Stehlik, Austria
Prof. A. M. Mathai, India	Prof. Peeyush Chandra, India
Prof. (Dr.) B. S. Bhatt, West Indies	Prof. (Dr.) Prakash J., Africa
Prof. Bhu Dev Sharma, India	Prof. Rattan K Dutta, India
Prof. (Dr.) D. B. Gurung, Nepal	Prof. (Dr.) Ravi Kulkarni, USA
Prof. (Dr.) Ebrahim Shirani, Iran	Prof. (Dr.) R. C. Schroter, U.K.
Prof. (Dr.) H. M. Srivastava, Canada	Prof. (Dr.) R. Raghavendra, Dubai
Prof. (Dr.) Hema Sharda, Australia	Prof. S.B. Nimse, India
Prof. J. B. Shukla, India	Prof. (Dr.) T. J. Pedley, UK
Prof. J. Chattopadhyay, India	Prof. Vinod P Saxena, India
Prof. Karmeshu, India	Prof. (Dr.) Zafar Aslan, Turkey

### NATIONAL ADVISORY COMMITTEE/ EMINENT SPEAKERS

Dr. A. K. Mathur	Prof. K. C. Deshmukh	Prof. R. K. Saxena
Prof. A. P. Singh	Prof. K. C. Gupta	Dr. R. N. Jat
Dr. Anil Sharma	Prof. K. C. Jain	Prof. Raj Bali
Prof. Bhola Ishwar	Dr. K. N. Singh	Prof. Rashmi Jain
Prof. Baldev Singh	Prof. K. R. Pardasani	Prof. Renu Jain
Prof. D. C. Sharma	Prof. Khalil Ahmed	Prof. S. P. Goyal
Prof. D. S. Chauhan	Prof. M. N. Mehta	Prof. Sarla Pareek
Prof. D. S. Hooda	Prof. P. K. Banerjee	Prof. Sivraj Singh Pundir
Prof. G. C. Sharma	Prof. P. R. Sharma	Dr. S. C. Sharma
Prof. G. C. Tikkiwal	Dr. Paresh Vyas	Prof. T.C. Panda
Prof. J. L. Bansal	Prof. P. Chaturani	Dr. Vatsala Mathur
Prof. Jagdish Prasad	Prof. R. C. Chaudhary	

### TECHNICAL PROGRAM COMMITTEE

Dr. Abha Singhal, Subodh PG College	Dr. Shuchi Dave, PCE
Dr. Abhay Kumar Jha, JECRC	Dr. Shilpi Jain, PCE
Dr. Alka Sharma, MNIT	Ms. Anu Arora, PCE
Dr. Amber Srivastava, SKIT	Dr. Himanshu Rathore, PCE
Mr. Sudhir Mathur, FSAI, Raj.	Dr. Tripti Mehta, PCE
Mr. Daria Singh Acharya, ISTE, Raj.	Dr. Gopal Krushna Panda, PCE
Dr. Hari Singh Parihar, CURAJ	Ms. Deepika Kumari Agarwal, PCE
Dr. Jugal Kishore Prajapat, CURAJ	Mr. Amarjeet Bharti, PCE
Dr. R. P. Sharma, JECRC	Mr. Ashwani Upadhyay, PCE
Mr. R. S. Saxena, ISLE, RSC	Ms. Sonal Mathur, PCE
Dr. Ritu Agrawal, MNIT	Dr. Priya Mathur, PIET
Dr. Rohit Mukherjee, SKIT	Mr. Ashok Kumar, PIET
Dr. Trilok Mathur, Bits Pilani	Mr. Sunil Kumar Yadav, PIET
Dr. Chanchal Jain, PU	Dr. Swapnil Jain, PIET
Mr. Shiv Shanker Garg, PU	Dr. Tripti Mehta, PGI
Mr. Naresh Bhati, PU	Ms. Priyank Pandey, PGI

## Track-I : Mathematical Sciences

Algebra, Discrete Mathematics and Graph theory, Real, Functional and Complex Analysis, Fractals, Geometry, Differential Geometry, Topology, Finite Mathematics, Differential Equations, Special Functions, Numerical Analysis, Number theory, Fluid Mechanics, Relativity and Cosmology, History of Mathematics, Strategies in Mathematical Education, Educational Statistics, Statistics, Operational Research, Probability, Financial Mathematics

## Track-II : Engineering Sciences

Modeling and Simulation of operations in arid/ semi-arid lands, Mineral detection, Mine detection, Machine Learning, Data Mining, Neural Networks and Artificial Intelligence, Logic, Fuzzy mathematics, Industrial Mathematics, Energy, Numerical & Computational Techniques, Fourier Series, Wavelet Transform, Optimization Techniques, Graph Theory and Networks, Information Theory and Coding, Cryptography, Computational Fluid Dynamics, Dynamical systems, Applied and Computational Statistics, Industrial statistics

## Track-III : Allied Sciences including Environment

Mathematical Physics (Solid state Physics, Nuclear and Particle Physics, Astrophysics), Mathematical Biology (Ecology and Epidemiology, Bio-Heat and Mass Diffusion, Population Dynamics). Informatics and its application in Biology, Pharmacology, Chemistry, Business, Crime, Security and Law. Statistical modeling, Bio Statistics, Medical Statistics, Business Statistics, Environmental statistics. Mathematics in Agriculture, Life Science, Food, Environmental & Atmospheric sciences (Mathematical modeling in Ecology, Sand Dunes Migration, Air Pollution), Modeling in arid and semi-arid regions, soil erosion, floods & fire risks, Modeling of Financial derivatives, Financial Science, Econometrics

## PAPER SUBMISSION

Intended participants are invited to submit abstracts not exceeding 250 words on A-4 size paper in double spacing by November 30, 2016. The authors of accepted abstracts shall be intimated of acceptance by December 05, 2016 and full length papers must be submitted by December 24, 2016 at [amsaet2017@poornima.edu.in](mailto:amsaet2017@poornima.edu.in). The papers must contain work that has not been published and is not being simultaneously submitted elsewhere and they should be written in concise and consistent with communication of understanding of the subject. All papers submitted to the conference will be reviewed by the experts in relevant areas. Certificates will be provided to all registered presenters and participants.

## VENUE

**Seminar Hall, Ground Floor,**  
**Poornima University**  
IS-2027-31, Ramchandrapura,  
Sitapura Extension, Vidhani Vatika  
Jaipur - 303905 (Raj.), INDIA  
Tel.: 0141-6500250 to 254

## IMPORTANT DATES

Abstract submission	November 30, 2016
Notification of Acceptance of Abstracts	December 05, 2016
Full paper submission	December 24, 2016
Intimation for presentation of papers	January 04, 2017
Registration	January 16, 2017

## REGISTRATION FEES

Delegate Type	Delegate Indian & SAARC Countries (Foreign) Participants	Registration (Upto January 16, 2017)	Late Registration (After January 16, 2017)
A	Faculty/ Academicians	3500 INR (300 \$)	4000 INR (350 \$)
B	Research Scholar (M. Tech/M. Phil/PhD)	3000 INR (250 \$)	3500 INR (300 \$)
C	Students (UG/PG)(No kit/No dinner, Only lunch & Certificate)	1000 INR (100 \$)	1500 INR (150\$).
D	Sponsored from Industry (Max. 2 Delegates)	12000 INR	14000 INR
Co-Author Full Registration		Above mentioned fee structure	
Co-Author Registration only for Certificate		1000 INR (100 \$)	

## Organized by

Department of Mathematics



(Estd. by Raj. State Leg. vide Act No. 16/2012 & Rec. under Sec. 22 (1) of UGC Act 1956)

**POORNIMA**  
UNIVERSITY

## FOR FURTHER INFORMATION

Write to us:

General: [amsaet2017@poornima.edu.in](mailto:amsaet2017@poornima.edu.in)  
Track I: [amsaet2017ms@poornima.edu.in](mailto:amsaet2017ms@poornima.edu.in)  
Track II: [amsaet2017es@poornima.edu.in](mailto:amsaet2017es@poornima.edu.in)  
Track III: [amsaet2017as@poornima.edu.in](mailto:amsaet2017as@poornima.edu.in)

Call:

**Dr. Shilpi Saxena (+91 -9414335718)**  
**Dr. Nupur Srivastava (+91-9887450493)**  
**Dr. Arun Dev Dhar Dewedi (+91-9450547267)**  
**Dr. Dipti Mathur (+91-9460187235)**

Website: [www.poornima.edu.in](http://www.poornima.edu.in)

For Registration: <http://amsaet.poornima.edu.in/>