



**The Second National Conference on
Recent Advances in Pure and Applied Mathematics (RAPAM'19)
18-19 December 2019**



Department of Mathematics and Statistics
Quaid-e-Awam University of Engineering, Science & Technology, Nawabshah

CONFERENCE PROGRAMME

Venue: Senate Hall, Administration Block, QUEST, Nawabshah

Time	Day 1 Wednesday, 18 th December, 2019	Time Duration
09:00 am – 09:30 am	Registration	30 Minutes
09:30 am – 10:15 am	Inaugural Session	45 Minutes
09:30 am - 09:35 am	Guests to be seated	05 Minutes
09:35 am - 09:40 am	Recitation from Holy Quran	05 Minutes
09:40 am - 09:45 am	Briefing by the Conference Focal Person	05 Minutes
09:45 am - 09:50 am	Address by the Conference Chair	05 Minutes
09:50 am - 09:55 am	Address by the Dean FoS	05 Minutes
09:55 am - 10:05 am	Address by the Vice Chancellor	10 Minutes
10:05 am - 10:15 am	Address by the Chief Guest	10 Minutes
10:15 am - 10:20 am	Memento Presentation	05 Minutes
10:20 am - 10:50 am	Keynote Speech by Prof. Dr. Shamsul Qamar Department of Mathematics, COMSATS University Islamabad-Pakistan. <i>Title: Theoretical Study of Thermal and Radial Effects in Liquid Chromatography</i>	30 Minutes
10:50 am – 11:15 am	Tea break	25 Minutes
11:15 am – 01:45 pm	Session -1 (Paper Presentations)	150 Minutes
11:15 am - 11:35 am	Paper Presentation-1 (S1) Dr. Najeeb Alam Khan Department of Mathematics, University of Karachi, Karachi, Sindh-Pakistan <i>Title: Paper Numerical analysis for the Bingham– Papanastasiou fluid flow over a rotating disk</i>	20 Minutes



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11:35 am - 11:50 am	<p>Paper Presentation-2 (S1) Dr. Sajad Hussain Sandilo Department of Mathematics and Statistics, QUEST, Nawabshah, Sindh-Pakistan <i>Title: On d'Alembert's Principle and the Initial-Boundary Value Problems</i></p>	15 Minutes
11:50 am - 12:05 pm	<p>Paper Presentation-3 (S1) Mr. Sanaullah Memon MUET SZAB, Campus Khairpur, Sindh-Pakistan <i>Title: Numerical simulation of combustion chamber film cooling mechanism</i></p>	15 Minutes
12:05 pm - 12:20 pm	<p>Paper Presentation-4 (S1) Mr. Mohsin Ali Amur Department of Information Technology, SBBU, Shaheed Benazirabad, Sindh-Pakistan. <i>Title: Numerical approximations for variational denoising model with complementary approach</i></p>	15 Minutes
12:20 pm - 12:35 pm	<p>Paper Presentation-5 (S1) Ms. Tooba Hameed Department of Mathematics, University of Karachi, Karachi, Sindh-Pakistan <i>Title: Modelling and simulation of coal gases in a nano porous medium: a biologically inspired stochastic Simulation</i></p>	15 Minutes



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12:35 pm - 12:50 pm	<p>Paper Presentation-6 (S1) Mr. Sunny Kumar Department of Mathematics and Statistics, QUEST, Nawabshah, Sindh-Pakistan <i>Title: On the investigation of transverse vibrations of axially moving string under structural Damping</i></p>	15 Minutes
12:50 pm - 01:05 pm	<p>Paper Presentation-7 (S1) Ms. Maria Junejo Mehran University of Engineering & Technology, Jamshoro, Sindh- Pakistan <i>Title: Some new technique of computing eigenvalues and eigenvectors of rectangle systems</i></p>	15 Minutes
01:05 am-01:35 am	<p>Keynote Speech by Prof. Dr. Zainul Abdin Khuhro Institute of Mathematics and Computer Science, University of Sindh, Jamshoro, Sindh-Pakistan <i>Title: Understanding Data Using Graph Theory</i></p>	30 Minutes
01:45 pm – 2:30 pm	Lunch break	45 Minutes
02:30 pm - 5:30 pm	Session -2 (Paper Presentations)	180 Minutes
02:30 pm - 03:00 pm	<p>Keynote Speech by Dr. Javed Hussain Brohi Department of Mathematics, IBA University, Sukkur, Sindh-Pakistan <i>Title: Large deviation principle for the heat equation on a Hilbert manifold</i></p>	30 Minutes



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03:00 pm - 03:15 pm	<p>Paper Presentation-1 (S2) Dr. Rajab Ali Malookani Department of Mathematics and Statistics, QUEST, Nawabshah, Sindh-Pakistan <i>Title: On the applicability of truncation method for (un) damped string-like models</i></p>	15 Minutes
03:15 pm - 03:30 pm	<p>Paper Presentation-2 (S2) Ms. Saima Bhatti Mehran University of Engineering and Technology, Jamshoro, Sindh-Pakistan <i>Title: Forecasting of machinery health by utilizing vibration technique</i></p>	15 Minutes
03:30 pm - 03:45 pm	<p>Paper Presentation-3 (S2) Dr. Abdul Hanan Sheikh Department of Mathematics and Statistics, QUEST, Nawabshah, Sindh-Pakistan <i>Title: A decade of iterative solvers for Helmholtz equation</i></p>	15 Minutes
03:45 pm – 04:00 pm	<p>Paper Presentation-4 (S2) Mr. Sanaullah Dehraj Department of Mathematics and Statistics, QUEST, Nawabshah, Sindh-Pakistan <i>Title: On effects of viscous damping of harmonically varying axially moving string</i></p>	15 Minutes



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04:15 pm - 04:30 pm	<p>Paper Presentation-5 (S2) Ms. Aliya Pirzada Shaheed Benazir Bhutto University Nawabshah, Naushehro Feroz Campus, Sindh-Pakistan <i>Title: Modification of Heun's iterative method for the population growth rate problems</i></p>	15 Minutes
04:30 pm - 04:45 pm	<p>Paper Presentation-6 (S2) Mr. Izhar Ali Amur Department of Education, SBBU, Shaheed Banazirabad, Sindh-Pakistan. <i>Title: Average error based adaptive regularization control for the gradient constancy variational stereo model</i></p>	15 Minutes
04:45 pm - 05:00 pm	<p>Paper Presentation-7 (S2) Mr. Abdul Ghafoor Shaikh Department of BS & RS, QUEST, Nawabshah, Sindh-Pakistan. <i>Title: Deflation to improve the convergence the Helmholtz Solver</i></p>	15 Minutes
05:00 pm - 05:30 pm	<p>Keynote Speech by Dr. Fahim Raees Department of Mathematics, NED University of Engineering & Technology, Karachi, Sindh-Pakistan <i>Title: The interface thickness preservation of the Modified Level-Set field using vertex based limiter</i></p>	30 Minutes



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05:30 pm - 06:20 pm	Concluding Session	50 Minutes
05:30 pm - 05:35 pm	Guests to be seated	05 Minutes
05:35 pm - 05:40 pm	Recitation from Holy Quran	05 Minutes
05:40 pm - 06:00 pm	Distribution of Certificates	20 Minutes
06:00 pm - 06:10 pm	Address by the Chief Guest	05 Minutes
06:10 pm - 06:15 pm	Presentation of Memento	05 Minutes
06:15 pm - 06:20 pm	Vote of Thanks (by Chairman)	05 Minutes
06:20 pm - 06:45 pm	Tea Break	25 Minutes