

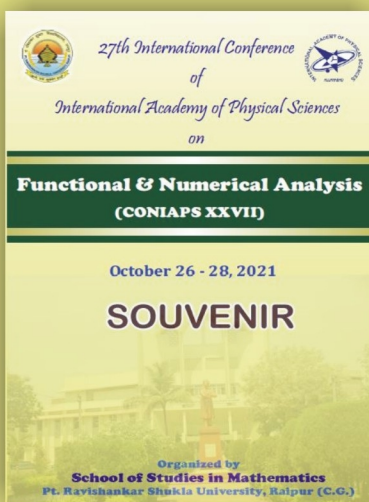
Mathematics Day Celebration



Session-II
February 13, 2020



CONIAPS-XXVII



Salient Features of the School

- Students participation in MTTs Programs in regular intervals.
- Students selected in NET/JRF/SET: In last five years 25 students selected in NET (CSIR-JRF, UGC-JRF) and SET.
- Gold Medal: M.Sc. students obtained Gold Medal in the year 1994, 1995, 1996, 1997, 1999, 2001, 2003, 2004, 2006, 2010, 2011, 2012, 2013, 2014, 2015, 2017, 2018, 2019, 2020, 2021, 2022.
- Participation in National and International Conferences/ Workshop: Faculties and research scholars participated in more than 50 National and International Conferences and Workshops.
- Consultancy Services in Research : Research consultancy was given to research projects in mathematics of some universities (Sultan Qaboos University, Oman and Transkei University, S. Africa) by faculty members
- Honour/Award received by our faculty: TWAS-UNESCO Associateship (2008-2011).
- Research Projects: Several research projects were carried in the School supported by DST, CSIR, CGCOST, UGC etc.
- The School produced 39 Ph.D's and more than 450 research papers in various National and International mathematics research journals.
- NBHM centre for M.Sc./M.A. Scholarship and Ph.D. Scholarship Examination.

Our students are placed in:

- ☞ **Universities:** BHU, GGU, RSU
- ☞ **Technical Institutions:** MNIT-Allahabad, IIIT Jabalpur, UIT-Indore.
- ☞ **Degree Colleges:** Leading PG & UG colleges in Chhattisgarh.
- ☞ **Engineering Colleges:** Almost every Engineering College in Chhattisgarh.



School of Studies in Mathematics



Supported by NBHM

Marching Ahead
with a Definite Goal To Fulfill the
Needs of Our Society

Establishment

The School of Studies in Mathematics was established in 1991. Since then, the School has been growing continuously in terms of educational programmes and infrastructure. From the very inception this school is one of the most active research center of mathematical sciences in Chhattisgarh. The school has its own building with adequate facilities for teaching and research. From 1994 the school is supported by NBHM Library Grant. In 2010-11, the school came under the umbrella of DST-FIST programme.

Courses Offered

- M.Sc./M.A. (4 Sems.)
- Ph.D. Programme

The doctoral programme is designed to prepare students for higher learning and to acquaint with recent developments in Mathematics as well as pursuing research career.

Academic Activities

The School of Studies in Mathematics regularly organizes a number of seminars and guest lectures. Our School of Studies also provides consultancy to various educational institutions and research labs. Faculty members of the School also provide counseling services to the students appearing NET/GATE/MTTS Programs/State PSC/UPSC.

Goals and Objective

School of Studies in Mathematics focuses on emerging trends in mathematics leading to fulfill the requirements of our society. Under the active guidance of dedicated faculty members the school is gradually emerging as an excellent centre for Research and Teaching in the areas of Nonlinear Analysis, Operator Theory, Cryptography and Mathematical Epidemiology etc. Our goals and endeavors are aimed to elevate our institution to the level of world class University.

Computer Lab

The S.o.S. has 30 PC's in the Computer Lab for the exclusive use of students of M.Sc. with access to internet facilities via Infnlibnet facility.

Pedagogy

The state of art of enquiry in the subject matter is to nurture amongst students for advance learning and to acquaint them with recent developments in Mathematics. The emphasis is on action learning like to handle real world problems, provide innovative concepts and mathematical models to industrial needs, field work and to create a challenging environment. The overall scenario is aiming towards creating a knowledge based society.

Mission of Our School

- To increase the productivity, technical and vocational efficiencies.
- To cultivate social, moral and aesthetic values as well as to develop sense of duty and responsibility.
- To develop overall personality through NSS, sports, cultural activities, debate, group discussions etc.
- To promote research activities in mathematics and to foster economic growth of the region.

Curriculum Design, Development & Update

Curriculum updated periodically, flexibility to design curriculum that caters the goals of the SOS.

2017 > 2018 > 2019 > 2020 > 2021 > 2022

NBHM Centre

NBHM Centre for M.Sc./M.A. Scholarship and Ph.D. Scholarship Examination from 2013.

Conferences/Workshop

- ◆ National Conference on Recent Trends in Mathematics with Emphasis on History of Mathematics, December 04-06, 2003
- ◆ Workshop Vision 2020 to determine the future plan of study and research in the University, September 05-08, 2006
- ◆ Golden Jubilee National Seminar on Advances in Nonlinear Analysis and Optimization, February 15-17, 2014
- ◆ Organized a one day seminar on 'Strengthening Scientific Temper' on 10th April, 2014, which includes a series of lectures on 'Life and work of Srinivasa Ramanujan.
- ◆ Organized one day seminar to celebrate Mathematics Day on 20th May. 2016.
- ◆ Organized outreach lecture and one day seminar on 11th & 12th February 2020.

Other facilities in the Development of Resources

Annual Library Grant from DAE, complimentary copies of High Quality Books and Springer's magazine Intelligence by NBHM from 2003.

Teaching-Learning & Evaluation Process

- ◆ Tutorial, weakly Seminar for M.Sc. Students, use of SMART BOARD/ LCD/ Book Presenter as teaching aid, class Tests, students are encouraged to make maximum use of library and online resources, training and dissertation report prepared and evaluated by external examiner.
- ◆ Practical classes are run in Computer Lab., compulsory participation in seminars, write-up review following presentation of seminars, surprise and announced unit tests are conducted.

ICT as Learning Resources

- ◆ In 2008, department is connected through RSU-CAN, online access of specific journals, use of LCD projector and Interactive Board
- ◆ In 2013, online access of more journals, MathSciNet database is available from 2010 and Ebooks in Mathematics
- ◆ Highest utilization of E-Resources among University teaching departments as per Usage Statistics of UGC-INFLIBNET Digital Library Consortium.
- ◆

International Collaboration in Research

Institution	Collaborator	Who collaborated
Indiana University, Bloomington, USA	Prof. B.E. Rhoades	H.K.Pathak
Florida Inst. of Technology, FL, USA	Prof.R.P.Agarwal	H.K.Pathak
Gyeongsang National University, S.Korea	Prof. Y.J.Cho	H.K.Pathak B.S.Thakur
Sultan Qaboos University, Sultanate of Oman	Prof.M.S.Khan	H.K.Pathak B.S.Thakur
University of Transkei, S. Africa	Prof.S.N.Mishra	H.K.Pathak
King Abdul Aziz University, Saudi Arabia	Prof.Nasee Shahzad Prof.Nawab Hussain	H.K.Pathak
Kyushu Institute of Technology, Tobata, Japan	Prof. T.Suzuki	H.K.Pathak
Universidad de Santiago de Compostela, Spain	Prof.Rodriguez-Lopez	H.K.Pathak
Kyungnam University, Changwon, Republic of Korea	Prof. J.K.Kim	H.K.Pathak
Salman bin Abdulaziz University, Al-Kharj, Kingdom of Saudi Arabia	Prof. Reny George	H.K.Pathak
Menofia University, Menofia, Egypt	Prof. H. A. Nabwey	H.K.Pathak
University Politehnica of Bucharest Romania	Prof. M.Postolache	B.S.Thakur
University of Pretoria, South Africa	Prof. M.Abbas	B.S.Thakur
French West Indies University, Martinique	Prof. A.Moudafi	B.S.Thakur