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(IVCRTMS-2021)
29-30 Oct. 2021



(IVCRTMS-2021) International Virtual Conference



ON Recent Trends in Mathematical Sciences

Jointly Organized by

Department of Mathematics

S.P.M. Science & Gilani Arts Commerce College,

Ghatanji, Dist. Yavatmal. (M.S.) India &

Phulsing Naik Mahavidyalaya,

Pusad, Dist. Yavatmal. (M.S.) India

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About the Conference (IVCRTMS-2021)

IVCRTMS-2021, aims to provide a premier platform for Mathematicians, Researchers, Scientists and Academician from Universities, Research Organizations and industries to present their work and to share experiences and ideas in the emerging areas of Mathematics for Modern Sciences. The conference will focus on the amalgamation of Mathematics for Modern Scientific investigation to disseminate new technical ideas and features that can be incorporated in day-to-day life for the benefit of the society. This scientific meeting shall spotlighted on recent developments in all aspects of classical, quantum, and Mathematical Gravity and its goals including the dissemination of recent results, the circulation of ideas and methods, among researchers, academicians, scholars and students on a common platform for the exchange of ideas and related findings would include a number of dignitaries from premier institutions world wide.

About the College :

Phulsing Naik Mahavidyalaya,
Pusad, Dist. Yavatmal.

Janata Shikshan Prasarak Mandal is the culmination of the long cherished dreams of a group of visionaries. Phulsing Naik Mahavidyalaya is a premier educational Institute established in 1961 with the mission to promote higher education for the marginalized folks of the remote rural areas and to strive for the all round development of students to face the global competition with utmost confidence by imparting scientific awareness and by strengthening their inner conscience and human values. We feel proud to mention that it was the outcome of the vision and effort of former Chief Minister of Maharashtra Late. Shri. Vasantaroji Naik. It is worth mentioning that former Chief Minister of Maharashtra Late. Shri. Sudhakarraoji Naik was the founder Secretary of the Society. Under the able guidance of Secretary Hon'ble Shri. Manoharrao Naik, Ex. Minister of Food and Drugs, Maharashtra State & Dr. N. P. Hirani, Ex. Chief Administrator, Cotton Federation of Maharashtra State, Hon'ble Shri. Jai Naik, President Janata Shikshan Prasarak Mandal, Pusad, our institute has achieved remarkable milestones in the field of higher education.

Since its inception the college has been imparting quality education to the socially and economically marginalized rural students. It runs courses in the faculty of Arts, Commerce & Science. Considering the need of the hour we have started P.G.Courses in Physics, Mathematics, Sociology & Library Science.

The Department of Mathematics at Phulsing Naik Mahavidyalaya, Pusad came into existence in 1973 for under Graduate Course. The Department has started **Postgraduate Course** from session 2014-15. This course has great scope and it enables the candidates to use their mathematical knowledge in different areas. The Department has well qualified and experienced faculty dedicated to teaching and research. Recently the Department is recognized as a **Research Center** by Sant Gadge Baba Amravati University, Amravati. Faculty is actively involved in research in the frontier fields of Mathematics such as Theory of Relativity, Cosmology, Mathematical Physics and other areas. The Department has been constantly achieving excellent result in University examinations.

About the College:

S.P.M. Science &
Gilani Arts Commerce College,
Ghatanji, Dist. Yavatmal.

The never tiring efforts of great freedom fighter Late Shri. Sahadevji Bharti passed way for Shikshan Prasarak Mandal to come into existence in 1928 Ghatanji, then a small place had no provisions for higher education and the aspiring students had no option but to move to district place. Realizing this his close associate, Late Shri. Alibhai Gilani promised him substantial financial aid which was fulfilled by Late Shri. Mehandibhai and Shri. Sadruddinbhai Gilani Arts, Commerce College come into existence in 1967. The science faculty started to function in 1983. SPM Science and Gilani Arts, Commerce College is striving continuously for taking higher education to the very grass root level of the society. The college owns a vast campus, spacious academic and administrative blocks. Laboratories recognized for research, rich and big library, computer facilities, well equipped gymnasium, and well maintained play fields.

Qualified and efficient teaching and non-teaching staff is always ready to take efforts for all-round developments of students. The extension activities, extracurricular activities are undertaken by N.S.S. unit of college. The college was accredited by NAAC in B⁺ and B grade in first and second cycle respectively and it gears itself up for the third cycle of assessment and accreditation by NAAC.

The Department of Mathematics, since 1983 endeavors to impart and enhanced quality in academic and research activities of the department. The faculty of the Department work sincerely to achieve the course, try outcomes. Curriculum delivery, continuous evaluation and publication of research papers are given emphasis. The Department is striving hard to contribute towards the fulfillment of aims and objectives mentioned in the mission statement of the college.

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- Pure and Applied Mathematics
- Mathematical Modeling
- General Relativity
- Cosmology
- Mathematical Physics
- Modified Theories of Gravity
- Horava-Lifshitz Gravity
- Study of Topological Defects
- Dark Energy & Dark Matter
- Galactic dark matter
- Cosmic Coincidence Problems
- Theoretical Astrophysics
- Compact star modeling
- Shadow & Accretion disk
- Theoretical Physics
- Black hole & Wormhole Physics
- Computational Physics
- Thermodynamics
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- Analysis
- Differential Equations
- Dynamical Systems
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- Integral transforms
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IMPORTANT DEADLINES

Submission of Abstract : **25th October, 2021**

Acceptance of Abstract : **25th October, 2021**

We feel immense pleasure in inviting you and your associates to participate in the

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