

One Week Online High-End Workshop (Karyashala) on Software Tools and Techniques used in EHEP and its Applications July 12 - 19, 2021



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Objective Department of Physics in collaboration with Department of ECE, MNIT Jaipur is organising a one week online High-End Workshop (Karyashala) on "Software Tools and Techniques used in EHEP and its Applications" (Under Accelerate Vigyan Scheme of SERB) from July 12 to 19, 2021. The aim of this workshop is to introduce the particle identification techniques, tracking methods, software tools and State-of-the-Art Machine learning data analysis techniques used in Particle Physics. This workshop is specially designed to improve the research skills of M.Sc./M.Tech. and Ph.D. students, who are working in the field of Experimental High Energy Physics.	 Eligibility Criteria Ph.D. students working in the area of Experimental High Energy Physics affiliated to universities, colleges, and private academic institutions. A few bright and research motivated final year students of M.Sc./M.Tech. with specialization in Nuclear & Particle Physics will also be selected. Pre-requisites: Basic knowledge of Particle Physics Matter particle interaction C++ Programming language 	Patron Prof. Uday Director, M Chair(s) Dr. Rahul & Head, Depa Prof. Vijay Head, Depa Convener Dr. Kavita & Coordinate Dr. Sarthak
Topics 1. Standard Model and beyond2. Neutrino Physics3. Flavour Physics4. Quark Gluon Plasma5. Dark Matter6. Relativistic Kinematics7. Modern Detectors and its technology.8. Accelerator9. Monte Carlo Simulation, Machine Learning10. Statistical Methods & Error Analysis11. Physics studies at EHEP Facilities <i>Three sessions (one hour each) every day</i>	 Registration Procedure Register at <u>https://forms.gle/rqNyAbWyqzsmmpca8</u> Applicants (M.Sc./M.Tech. and Ph.D. students) need to upload: (a) A letter of authentication from their Supervisor/ Head of the Department/Head of the Institute indicating their association with the institute and "No Objection Certificate (NOC)" for allowing their student to undergo training in the workshop, if selected (Format is enclosed in registration form). (b) One recommendation letter from Supervisor 	Local Orga Dr. Rajendi Dr. Kuldeej Dr. Rajesh Dr. Srinivas Dr. K Venk Dr. Anees A <u>National A</u> Prof. Gagan Prof. Bedan Prof. Bedan Prof. Bipul Dr. James I Dr. Ankhi F Dr. Neha SI Prof. Jyotir Prof. Kanup
For any information, please contact @ Email: <u>ehep2021.karyashala@gmail.com</u>	Last date of online registration: June 25, 2021 Intimation to selected participants (via email): June 30, 2021	Prof. Upen Prof. M. M Prof. D. Bo Dr. Rajeev





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ganizing Committee

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Advisory Committee

gan Mohanty, TIFR, Mumbai langadas Mohanty, NISER, Bhubaneswar ghava Varma, IIT Bombay ul Bhuyan, IIT Guwahati s Libby, IIT Madras i Roy, IIT Indore Shah, IIT Patna tirmay Mathur, MNIT Jaipur nupriya Sachdev, MNIT Jaipur endra Pandel, MNIT Jaipur M. Sharma, MNIT Jaipur Boolchandani, MNIT Jaipur