



**UGC-DAE Consortium for Scientific Research**  
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## **Undergraduate Summer Training Programme (UG-STP)** **15 May – 30 June 2017**

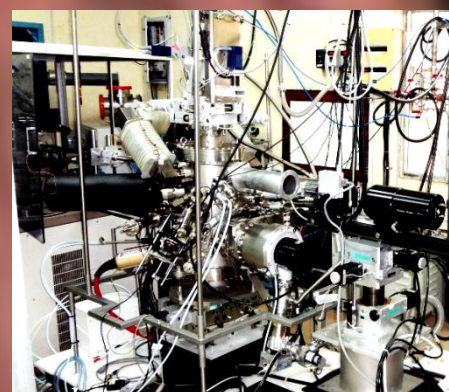
UGC-DAE Consortium for Scientific Research, situated at Takshashila Parisar of DAVV, Indore is an Inter-University Research Centre of University Grants Commission (UGC), New Delhi. The Consortium supports research in the universities and colleges across the nation by using the in-house facilities and by accessing the mega Science facilities of DAE.

The Indore centre of UGC DAE CSR supports a vibrant research program in materials science through the use of advanced synchrotron based facilities at RRCAT (operation and utilization of two beam-lines viz., one for photoelectron spectroscopy and other for x-ray absorption spectroscopy on INDUS-1 and INDUS-2 respectively) and advanced material characterization/ synthesis facilities (such as low temperature high magnetic field facilities, thin films and multi-layer physics, surface physics, Mossbauer, electron, Raman and optical spectroscopy, electron microscopy, atomic force microscopy etc.). For more information about research activities of the centre please visit our web page: <http://www.csr.res.in>.

In order to expose students to these frontiers in science and encourage them to take-up a research career, a three week Summer Training Programme is being organized. The training program will be conducted at the UGC-DAE CSR, Indore centre and can be for any three week period (as per the convenience of the applicant) lying between the 15<sup>th</sup> May 2017 and 30<sup>th</sup> June 2017.

Students who are presently in the second year of B.Sc. (Physics) are eligible to apply. Applications should be submitted by email (at the address [ugstp@csr.res.in](mailto:ugstp@csr.res.in)) in the format available on our web page. The candidate should arrange for one letter of recommendation to be sent by email (scanned signed copy) along with the application.

Selected candidates will be paid round-trip train fare by II class (sleeper), local hospitality and transportation & contingency support for the stay during the training. The selected candidates for the programme will work on a project during their 3 week stay at the Centre between May 15, 2017 to June 30, 2017. At the end of the research training programme, the students are expected to submit a write-up related to their project work and give a presentation. Visit the website [http://www.csr.res.in/csr\\_indore\\_centre.html](http://www.csr.res.in/csr_indore_centre.html) for more details. Last date for applications is 31<sup>st</sup> March 2017.



FACILITY FOR INSITU THIN FILM GROWTH STUDIES AT CSR INDORE



HiPIMS THIN FILM DEPOSITION SYSTEM AT CSR INDORE



CSR BEAMLINE AT INDUS I SYNCHROTRON



LTHM MOSSBAUER SETUP AT CSR INDORE



200 000 Litres LN<sub>2</sub> per year

CRYOGENICS FACILITY AT CSR INDORE



50 000-Litres LHe per year



LTHM XRD AT CSR INDORE