

ABOUT VELLORE INSTITUTE OF TECHNOLOGY

Vellore Institute of Technology (VIT) was founded in 1984 as Vellore Engineering College by the Chancellor, Dr. G. Viswanathan. From its humble beginnings, the institution has grown exponentially to that of more than 35,000 students. It was conferred the University status in 2001 in recognition of its excellence in academics, research and extracurricular initiatives. Currently, VIT has 4 campuses – in Vellore, Chennai, Amaravati (AP) and Bhopal (MP). VIT has been consistently ranked among the best institutions of the country, and is aspiring to emerge as a global leader. The National Institutional Ranking Framework (NIRF) of the MHRD Government of India, has identified VIT as the best Private Engineering Institution in India.

With students from all the states of India and from more 50 countries, the cosmopolitan VIT provides an appropriate ambience for holistic learning and comfortable living. Sports, games and cultural activities are an integral part of student on campus. VIT holds an exemplary placement record by consistently placing more than ninety percentage of the students in good companies. The VIT's international linkages provide ample opportunities for students and faculty to gain global exposure. VIT alumni, spread across the world, are serving the most advanced as well as the most deprived societies.

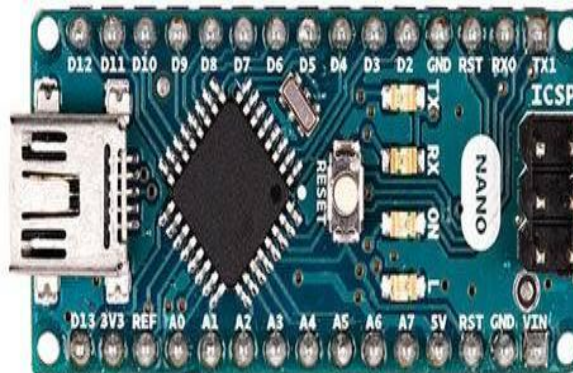
ABOUT THE SCHOOL OF ADVANCED SCIENCES

The School of Advanced Sciences (SAS), VIT consists of Mathematics, Physics and Chemistry Departments. The school offers M.Sc., M.Phil. and Ph.D. programmes in all these disciplines. The School comprises qualified and research oriented faculty members whose expertise are in the frontier areas in sciences. Faculty members of SAS have received national and international recognized funded

projects to the tune of 10 crores ongoing projects in SAS. Several research projects of the school are financially supported by some of the leading funding agencies such as NBHM, UGC, CSIR, DRDO, DST, DBT, and Others. In addition, they have published international research papers and filed patents. The curriculum keeps abreast of the latest advancements in the respective domains and endeavor's to mold the students into job seekers. The students are placed in reputed companies in India and overseas.

ABOUT THE DEPARTMENT OF PHYSICS

The Physics Department offers credit based courses in basic Physics to undergraduate first year engineering (B.Tech.) and also electives to UG. The Department also offers credit based postgraduate programme, Master of Science (M.Sc.) in Physics. The Physics Department is equipped with different laboratories viz., Thin Films/Sensors/Energy Conservation; Crystal Growth; Gel Dosimetry/ Laser Spectroscopy; Nonlinear Fiber Optics/ Photonics; Bio Physics; Condensed Matter Physics; Material Science; Medical Physics/Nuclear Physics; X-Ray Crystallography; Ultrasonics; Thin Film Technology; Bio-Materials; Surface Engineering; Synthesis and Characterization of Nanomaterials. The Physics Department is strengthened with 41 Faculty Members.



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Value Added Programme On Theoretical & Hands-on Training in Arduino

20, 21, & 22 September - 2019

Organized by

**Department of Physics
SCHOOL OF ADVANCED SCIENCES
VELLORE INSTITUTE OF TECHNOLOGY
VELLORE – 632014**

Coordinators

**Prof. E. James Jebaseelan Samuel
Prof. K. Senthilnathan
Dr. R. Murali**

VIT – A Place to Learn; A Chance to Grow



REGISTRATION DETAILS

Participants are requested to register through online by paying the required registration fees (non-refundable) using the below link.

Registration Link:

<http://info.vit.ac.in/Events-VIT/VAP-Arduino/apply.asp>

IMPORTANT DATES

Last Date for Registration: 19th Sep. 2019

Workshop Dates:

20, 21, & 22 September - 2019

Registration Fee Details: Rs.500/-

Venue: TT420.

TARGET AUDIENCE: First Year B.Tech Students

CONTACT DETAILS

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Prof. K. Senthilnathan

E-mail: senthilnathan.k@vit.ac.in

1. Selection will be made purely on First Come First Serve Basis.

2. Maximum fifty (50) participants will be accommodated in the course. The Brochure and the Registration Form may be downloaded from the Institute website www.vit.ac.in

3. Course certificate will be awarded on successful completion of course.

Arduino Schedule

Days	Topics
20 Sep. 2019 (6.00 pm) TT420	Inauguration Introduction to the programme Basic Ideas
21 Sep. 2019 (8.30 am) TT420 Session 1	Introduction to Robotics History of robots Types of robots Applications of robots
 Session 2	Introduction to Arduino Arduino board description Arduino programming Arduino interfacing with pc
22 Sep. 2019 (8.30 am) TT420 Session 1	Introduction to sensors What is a sensor and How to manipulate sensor signals? Introduction to developer board (LED, 7 segment, Buzzer, Switch, Potentiometer) Assembling the Obstacle avoider robot
 Session 2	Programming & Making of Obstacle avoider robot Programming & Making of Line Following robot Competition on followed workshop

Robotic kit Contents:

Numerous applications can be performed on given highly accurate and standard robotic kit.

- A set of robotic chassis
- Arduino Board
- Dual or single power supply system
- Castor wheel & motor wheels
- On-board motor driver IC for connecting 2 DC Motors
- Geared DC motors
- Bread board
- Batteries for power supply
- USB cable
- Sound sensor
- Cables/Connectors
- Adapter
- Arduino developer shield (for training only)