

ASTRAL INSTITUTE OF TECHNOLOGY AND RESEARCH

Mandatory Disclosure

1. Name of the Institution

ASTRAL INSTITUTE OF TECHNOLOGY AND RESEARCH
Kailod Kartal, Bypass Road, Indore
Phone: 9229205555 Email: aitr@astral.ac.in www.astral.ac.in

2. Name of the Society

Vijayvargiya Public Educational Society
Kailod Kartal, Bypass Road, Indore

M/S Vijayvargiya Public Educational Society, a registered society with the Registrar of Firms and Societies, Madhya Pradesh under the Madhya Pradesh Firms and Societies Registration Act (No. 44 of 1973) was established in MP with the main object to imparting quality education, particularly Technical & Management education to the students of MP and from the other states.

A team of highly qualified and experienced professionals having, legal, management and engineering background have promoted the society. It is the vision of the promoters to create the Institute with appropriate facilities for development, consultancy and research work. Gifted with a rich heritage offered by illustrious visionaries, aspires to establish and share its leadership in the field of technical education that is relevant to the national needs and yet compatible with international standards, by combining conventional engineering and latest technological advances. The Society believes in promoting culture and traditions that make for a wholesome community.

Vijayvargiya Public Educational Society started by professionals with a vision to create professional institute in the state of Madhya Pradesh. This would help the state of MP to have infrastructure for professional education. The Promoting body also believes that Engineering holds the key to economic growth and substantial

development of our country in the years ahead. The society has a vision to develop an institute of excellence by adopting the best teaching learning practices.

The Society will constantly strive towards this social need by inclusion and expansion of streams of academics in its institutions and further commits to match infrastructure for its effective enablement. With a vision to excel in all its activities, the Society envisions to create an atmosphere of involved learning, instill a spirit of enquiry, induce healthy challenges, encourage sustainable accomplishment and ensure enriching rewards to everyone - students, teachers and associates.

The society's long-term vision extending towards the years is predicated on five ambitious strands:

- ❖ The creation of knowledge
- ❖ Leadership in information
- ❖ Improvement of industrial competitiveness
- ❖ Promotion of quality of life
- ❖ Enhancement of national technology

College Priorities of the Promoting Body:

- ❖ Communicate needs and aspirations
- ❖ Keep educational programs current and relevant
- ❖ Retain, recruit and develop outstanding individuals
- ❖ Promote multidisciplinary research
- ❖ Align college strategic directions (educational and research) with university initiatives

3. Name and Address of the Director

Dr. N.K. Jain Director
Kailod Kartal, Bypass Road, Indore
Phone 9575492590

4. Name of the Affiliating University

Rajiv Gandhi Proudyogiki Vishwavidyalaya (R.G.P.V)
Airport Bypass Road, Gandhi Nagar, Bhopal, Madhya Pradesh 462033
Phone: [0755 273 4913](tel:07552734913)

5. Programmes

Engineering and Technology:

BTECH COMPUTER SCIENCE AND ENGINEERING - 120 SEATS – 4 YEARS

BTECH INFORMATION TECHNOLOGY – 60 SEATS - 4 YEARS

BTECH ELECTRONICS AND COMMUNICATION ENGG – 90 SEATS-4 YEARS

BTECH MECHANICAL ENGINEERING – 120 SEATS - 4 YEARS

BTECH CIVIL ENGINEERING – 60 SEATS - 4 YEARS

MTECH COMPUTER SCIENCE AND ENGINEERING - 18 SEATS – 2 YEARS

MTECH MECHANICAL ENGINEERING (THERMAL ENGG) – 18 SEATS –2
YEARS

DIPLOMA CIVIL ENGINEERING – 60 SEATS – 3 YEARS

DIPLOMA MECHANICAL ENGINEERING – 60 SEATS – 3 YEARS

MANAGEMENT:

MBA 240 SEATS – 2 YEARS

6. Name of Programmes Accredited by NBA : NIL

7. Name of Programmes having Twinning and Collaboration with Foreign University(s): Not Applicable

8. Fees Structure:

Fees of the Institute are as Fixed by Admission and Fee Regulatory Committee of the State of Madhya Pradesh copy of fees Fixed for the years is attached. Fees are paid Semester wise by the students.

9. Scholarships:

All Reserved category students are eligible for Government Scholarships both State and Central based on their Income and Cast and can apply Online

10. Admission Procedures

Admissions to UG, Diploma and PG are strictly as per AICTE Norms and Rule Book of DTE of State of Madhya Pradesh. Last date of Admissions are as per AICTE Academic Calendar Counseling is conducted online through DTE Portal for course

wise and seats wise with reservation policy implemented on the basis of merit and admissions to all courses are as per DTE Counseling in Every academic session.

11. Faculty Details

List Attached

12. Infrastructure

Building:

Campus is located at a convenient location away from hustle and bustle of the city and away from the pollution of the city. With lush green lawns and serene ambience, it provides an appropriate environment for academic work and provides the following amenities for all round growth of budding engineers. Roughly square in plan, the campus is situated within a surrounding hills environment of greenery non-pollution and of institutional uses.

The institute is situated in the midst of greenery, with well-designed modern architecture. The rockeries around the building at the center, a well-furnished reception and spacious classrooms all inspire admiration among visitors and institute members alike

The campus has been designed to complement the international technological curriculum and as the optimum environment for 21 st Century education, where every aspect of teaching and learning is supported by modern and relevant technology. There are abundant shaded outside areas for conversation and tranquil reflection.

Picturesque landscape and a vast area to form its campus surround the institute. The entire campus gets covered with green lush green during rains; with trees all around, the campus presents a unique atmosphere and ideal educational environment for students and teachers for all round development.



CLASSROOMS:

Classrooms are one of the main platforms where effective learning takes place. We have taken all the possible care while designing our world class classrooms so that our students get effective learning from our teachers and facilitate participative learning.

Our classrooms are well ventilated spacious, equipped with overhead and LCD projectors along with public address system with proper arrangements of Laptop power supply.

The furniture used in classrooms is of un-compromised international quality to enable students for 8 hours of comfortable and continues learning.



Computer Lab High - End Computing resources and Software Facility

The Computer Labs are artistically and ergonomically designed, where students get an opportunity to develop their skills according to the global needs and international standards.

ASTRAL has high-end computing and network resources for the academic and research programs. The students and staff have access software tools and systems to execute real-life projects.

The institute strives to make learning more creative, interactive and information driven by using sophisticated computer techniques. The Centre offer training and software development apart from being a support service for the faculty, students and

staff. The computer laboratories across the campus house over a hundred computers for use of students and staff.

The labs are set to create specialist environment required for students of Engineering, Management and MCA. Computer Centre supports Core 2 Duo Nodes and High End Servers connected through latest switches. Internet and Intranet network facilities supported by high quality software based on curriculum and global requirements, along with latest operating systems, allowing the students not only to develop their skills but also access the internet for convenient internal as well as external communication with the cyber world, the college provides free access to Internet to its students through 4 Mbps connectivity, the local Intranet, a 100 MBPS switched network, is provide an interactive platform for sharing resources and building communities. Other peripherals such as Laser and Dot Matrix printers, Scanners etc. also support the needs of the users.

The institute also plans to become the member of Microsoft Academic Alliance, which would support the institute to receive all the licensed software products of the Microsoft.



Library is the soul of our educational institution. The Engineering and Management College Library has been an integral part of academic endeavour in college. Keeping in view intensive and extensive use, the library is being constantly enriched by the acquisition of latest books and journals keeping in pace with changing times, to further the advancement of the University's academic activities.

The Central Library caters to the information needs of the institute's faculty, students, staff, research institutions & industries. Institute library will have around 35,000 books covering all disciplines of engineering, technology, and management. The

collection in the library comprises printed documents such as books; reports, thesis, standards, atlases, patents and journal back volumes. The non-book collections include material like micro fiche/film, audio/video cassettes, and CDROM discs. It also has a separate collection of prescribed textbooks under 'Book Bank' for the exclusive use of students.

Almost all major journals and magazines are available here. There are Slide Projector and other allied equipments in the Audio – Visual library. Under the web consortium, the library provides on-line access to a large number of full-text journal databases from various publishers. These e-journals are accessible on intranet to campus users only.

The library provides various services for its members such as - Lending of books and journal back volumes, reservation of books, inter-library loan, document delivery, photocopying, DTP & offset printing, CDROM and Internet services & video screening. All the library activities are computerized, including bar-coded ID cards and separate On-line Public Access Catalogue (OPAC) terminals for searching books in the library.

The Library is equipped with modern facilities like Interactive CD-ROM, Videos, Computer-based learning Packages and Internet which help the institute in achieving the target. The library network is connected to the institute intranet so the library members can browse the library from their respective departments.

A comfortable and spacious seating arrangement provides a complete academic atmosphere in each library where students can sit and concentrate. The catalogue of books helps students to identify their needs and quick reference. It is updated regularly as the new books are added. A Display Board has also been provided in the Library where students can view interesting articles and news-clippings directly.

Digital Library Facility

Full access is provided on campus via the institute's Intranet. Selective access provided through the Internet tour Digital Library. Also provides streaming audio and video Lectures. Digital Library, houses a galaxy of video lectures, e-books, e-journals, content pages of the books, reports and other electronic information resources. All classroom lectures, seminars, invited lectures of the Institute are digitized and made available through the online digital library using advanced SMIL multimedia technologies. Users can view the multimedia lectures along with the corresponding Power Point slides during the sequence of the lecture.

Future Plans for the Library

Institute would be fellows Corporate Members of British Council, CMTI (NICMAO), Library of IEEE/ACM full portal ASME, (ELSIVIEAR) science direct, DELNET Library, and BITES (E-Brary) Online Access to E-Books enabling students and staff to refer to the other member libraries for additional information for their research /

projects. All activities of LRC are computerized, including bar-coded ID cards and separate On-line Public Access Catalogue (OPAC) terminals to know the status of books at any time.



LABORATORIES FACILITY

Institute's all the laboratories are equipped with most advanced equipments and latest standard machineries to provide better upgraded practical knowledge and training to cope with global technology. The laboratories are one of the largest amongst all engineering colleges of the state. The idea of establishing these laboratories is to provide sophisticated electronic instruments and equipments to student community for their advanced research. The institute will grow as a major centre for spectral measurements, structure determination, and materials characterization, housing most modern and computer controlled equipments.

Analog and Digital Communication Lab has facilities for conducting practical on Modulation, Amplitude, Frequency, Pulse Code Modulation as well as ASK, FSK.

DEM Lab has equipments like logic gates trainers, 4-bit ripple counters, multipliers, de-multipliers, left and right shift registers, microprocessors, frequency generators etc. Breadboards are used for Verification and Realization of different Digital Circuits.

Analytical and Instrumentation Lab will be equipped with measuring and inspection instruments like Viscosity Measuring Device, electrical Conductivity Measuring Device, Flow and level Controller, X-Ray Spectrometer.

Network Analysis Lab has experimental setup for determining governor and cam-follower characteristics, gyroscope functioning, Resonance Phenomenon using Function Generator and C.R.O. on the series & parallel Resonance Kit.

The Engineering Physics Lab has facilities for conducting practical on optics, Electronics, Digital Electronics, Laser and Fiber Optics.

Electrical Lab is equipped with Transformers, Auto Transformers, Resistances Inductors, and Capacitors.

CENTRAL WORKSHOP

The college has very well equipped workshops on fitting, welding, filing that adds feature to overall development of a student's ability. Central workshop is established to meet the above objectives three major production processes, i.e. metal cutting, metal joining, and metal forming. The workshop comprises four basic categories Machine Shop in these shop students performs on lathe Machine, Welding Shop in these shop students uses Gas Welding and Arc Welding, Sheet Metal Shop Includes making Funnel of metal and in Fitting Shop students make various joints in Metal Pieces. Apart from these shops, more shops will be added in the process of modernizing the workshop training in line with industry to suit industrial requirements.

The college workshop is equipped with latest educational trainers and latest equipments for carrying out various experimental activities such as first hand study and simulations. These allow our students to gain a better understanding of concepts learned during regular classes. This also allows our students to train themselves on various design and simulation machines used widely in the industry.

The updated equipments, machines make our lab-setup as most modern, matching the needs of the courses. The workshops and laboratories are equipped with necessary machines, tools etc. of the latest models

Sports and Recreational Activities

It is our belief that recreational activities are primordial to the overall development of any student. We have introduced a number of activities and convince everyone that these activities are necessary and have a role to play in the overall growth of the students. We motivate our students to participate in different games and sports activities throughout the year. Teams from Institutions are sent to compete in various Inter-college and University tournaments.

These activities inculcate the healthy habits of sportsmanship and competitiveness among the students and help them to release their stress and learn the spirit of freedom, togetherness, discipline, leadership and self-control. Also help students

develop leadership and team skills, pursuing their interests through diverse organizations. The various clubs and teams reflect the wide range of personal and professional interests. Activities are student-driven, and new initiatives are always welcomed.



- 13.** A brief note about the consonance with the policies and plans of the technical education of the State Government / University.

The Institute maintains the same approach as prescribed by the AICTE across the country and the Technical University of Madhya Pradesh that is RGPV as it is felt that it has yielded good results. Our objective in higher engineering education is not only to promote equality and social justice, but also to provide the right kind of work ethos, professional expertise and leadership in all walks of life. Above all, our endeavor is to foster among teachers and students and through them in society generally, integral development of values inherent in physical, emotional, rational, aesthetic, ethical and Spiritual education. The Institute would have greater emphasis on design oriented teaching, teaching of technical methodologies, problem solving approach.

- 14.** A brief note about policies and plans of the management for faculty and staff development.

Management believes that recruitment to all faculty posts shall be strictly based on merit by open selection through open advertisement at national level. The faculties are involved in teaching at undergraduate levels, set up laboratories and experiments carry out Research and Development, seek funding for applied research from external sources and, in general, help building the Institute. The Institute is committed to provide opportunities for professional growth of its faculties and provide very attractive cost to company compensation package.

Institution actively encourages and supports the faculty in taking up consultancy (and testing) work. Teachers should actively liaise with industry to attract projects, particularly those that have elements of industrial problem solving, student involvement and educative value.

Faculty training or faculty preparation is a very important and critical area for us. In interaction with teachers engaged in engineering education it has been felt that the whole idea of training needs to be overhauled and made more effective and efficient. Management also encourages sharing experience between different organizations particularly efforts towards different directions subject areas where they are less experienced.