ACADEMICS

SCHOOLS

VIT Bhopal has made a mark in higher education as one of the best engineering institutes in Central India. The Institute hosts 7 Schools offering academic and research-oriented engineering and management courses both at undergraduate and post-graduate levels. The prospective students can opt for any school, based on their area of interest and future career goals.  
At VIT Bhopal, research plays an imperative role on par with academics, facilitating interdepartmental collaborations, besides providing ample opportunities for the students to keep themselves updated of the technological advancements and innovations. All the schools are equipped with state-of-the-art laboratories to impart practical knowledge as per the current industrial standards.

## SASL- About the School

The School of Advanced Sciences and Languages (SASL) in VIT Bhopal is principally concerned with blending the best knowledge of science and humanities with Engineering to align the expertise of our students with the ever-changing technological requirements. The school offers numerous core and elective courses, developed in collaboration with international academia and industrial experts, in Mathematics, Chemistry, Physics, English and Humanities. The school imparts knowledge by employing student centered teaching approaches via state-of-the-art studio classrooms equipped with wave 2.0 technology. The school is also involved in the research where researchers and scholars in partnerships with government, industry and nonprofit organizations, develop cutting-edge technology and innovations to serve our society. The research carried out by our faculty members, with diverse research profiles and with industrial and international working experience, ranges from basic areas such as Drug Design, Microbiology, Molecular Modeling, Energy & the Environment, Materials, Catalysis, Nonlinear Dynamics, Differential Equations, Numerical Methods, Graph Theory, Space Science, Astrophysics, Solar Physics and Computational Linguistics to interdisciplinary areas such as Biotechnology, Nano-Electronics, Computational Biology, Machine Learning in Biology & Chemistry, Sociolinguistics, Teaching Pedagogy etc.

The school imparts knowledge of natural sciences and languages to the B. Tech, Int. MTech, M. Tech, MCA and PhD students by employing student centered teaching approaches via Caltech (Collaborative and Active Learning through Technology), including hands-on experience in the state-of-the-art laboratories & studios.

## BIOENGINEERING-About the School

The School of Bio Engineering, at VIT Bhopal University offers in-depth academic and research experience for the young minds hoping to scale greater heights in their career. The school follows quite an integrated approach towards solving problems related to both Biomedical Engineering and Biotechnology – a culmination of pure sciences and engineering.

Started in 2018, the School of Bio Engineering in fact has the distinction of offering B. Tech Bio-engineering course for the first time in India, in the same year. The vast curriculum laced with thought-provoking topics crafted by our expert faculty members, is taught in theory classes and associated labs for providing requisite expertise in the diversified sub-domains of this interdisciplinary course.

The School envisions equipping its students with an integrated knowledge in the field of medicine and biology, as well as different engineering disciplines that would align with applications in the relevant areas.

The core aim of the teaching methodology, lab functioning is to aid students in emerging as professionals to take up real-time industrial or research challenges they would encounter in both Biomedical Engineering and biotechnology.

The school lays emphasis on the development of biosensors, bio-materials for medical applications, designing artificial cell-tissue-organs for rehabilitation. Apart from the biomedical engineering applications, School of Bio Engineering is also focusing on advances in molecular biology, genetic engineering, immune and protein engineering domains.

## SCSE-About the School

The School of Computing Science and Engineering (SCSE) has started in 2017 with two programmes and 200+ students and it has grown to 15 programmes and 8000+ students today. The SCSE playing a vital role in university by leveraging the power of innovative digital technology and tech-enabled solutions to support better learning and living experiences for aspirants. Our programs are future ready, forward looking, and equip the students with a career at forefront of innovation. The school will continue to successfully develop future ready engineers in various domains of computing science to provide innovative solutions to the world’s grand challenges.

## SEEE-About the School

The School of Electrical and Electronics Engineering (SEEE) was established in the year 2017 at VIT Bhopal University and offers Undergraduate, Post-Graduate and Doctoral programmes. The School is a hub of the state-of-the-art studios and laboratories in the areas of Analog Electronics, Digital Electronics, Embedded Systems, Sensors, IoT, Microwave and Optics, VLSI, Micro-processor and Micro-controller, AC machine, Analog communication, Digital Communication, and DC Machine. The faculty members of the school have wide range of expertise in the fields of Micro Electro Mechanical Systems (MEMS), Hydro Power System Optimization, Flexible AC Transmission Controllers, Robotics and Artificial Intelligence, VLSI design, Electric Drives, Microgrids and Computer Networks.

## SMEC-About the School

School of Mechanical Engineering (SMEC) at VIT Bhopal offers undergraduate degree and research programmes in Mechanical Engineering and Aerospace Engineering. SMEC started in the university right from its inception. Faculty members in the school belong to different specialization areas in Mechanical Engineering like Machine Design, Thermal & Fluid Sciences and Manufacturing Engineering. Aerospace Engineering faculty are from structures and propulsion background. School offers major core courses and various elective courses that are designed after detailed consultation with industry experts.

All faculty members in the school are actively involved in research and consultancy work. They are working in different research areas such as Acoustics and Noise Control, Energy, Applied Thermal Systems, Vibration Control, CFD, Non-destructive Testing, Aerospace Structures, Manufacturing Engineering, FEM, etc. The school adopts a student-focused teaching-learning methodology called CALTech, which motivates students to learn concepts effectively and develops research interest as well. SMEC is equipped with all state of the art laboratories necessary for undergraduate studies. Apart from the regular curriculum framework, the students have numerous opportunities to develop their soft skills, skill sets as per industry demand and overall professional development.

## About Business School

Businesses have a platter of activities that have to be kept in line for the proper functioning of the companies so that it grows in all respects and achieves a name in the market space. In a country like India, where many entrepreneurial ventures dwell but are never able to withstand in the market, one of the major reasons for the downfall of many companies can be a failure in the administration of the business and its activities.

### About School of Architecture VIT Bhopal:

School of Architecture VIT Bhopal has started its journey to lead and guide the forthcoming generation for their Architectural exposure and   mark a presence in the Modern Architectural field with a deep foundation of Vernacular basis.

# Faculty

# INFO

Dr. Abdul Rehman

Associate Professor

Dr. Abdul Rahman received Doctorate Degree from Department of Computer Engineering Jamia Millia Islamia, New Delhi, India and Master of Technology in Computer Engineering from Maharishi Dayanand University, Rohtak, Haryana India. He has completed Bachelor of Technology in Computer Science and Engineering from UPTU, Lucknow, India. He has more than 20 Years of Teaching Experience in various Repute University and Engineering colleges at graduate as well as post graduate level. His Area of Interests are Soft Computing, Machine Learning, Data Science, Natural Language Processing. Dr. Rahman worked up to Professor level, moreover extended his services as HoD in repute Universities of India. Dr. Abdul Rahman design and developed curriculum of M.Tech. (Information Security) for Faculty of Technology, Debre Tabor University, Ethiopia. Besides this he Design and Developed Curriculum of Applied Data Science in Department of Information Technology, University of Technology and Applied Sciences -Shinas Oman. He has good number of publications in renowned Journals as well as Conferences like IEEE, Springer, and Elsevier.

**Dr. Mohammad Sultan Alam**

**Assistant Professor**

Dr. Mohammad Sultan Alam is an Assistant Professor Grade 2 in the School of Computing Science and Engineering at VIT Bhopal. He holds a Ph.D. in Computer Science and Engineering from IIT Mandi, where his research focused on regions in the entropy space and network code construction. With a specialization in information theory, coding, algorithms, and applications, Dr. Alam has made significant contributions to the field. He completed his M.Tech in Computational and Systems Biology from Jawaharlal Nehru University (JNU), New Delhi, and holds an M.Sc. in Mathematics from Aligarh Muslim University (AMU). He also earned a B.Sc. (Hons) in Mathematics from AMU, Aligarh. His research interests encompass information theory, coding, algorithms, machine learning, and data science, with a focus on statistical analysis. Prior to joining VIT Bhopal, Dr. Alam was an Assistant Professor (contractual) at NIT Hamirpur. He served as an Institute Postdoctoral Fellow in CSE Department at IIT Kanpur for two years. He has also held positions as a Senior Project Scientist at TIH-HCT at IIT Mandi. He has taught courses like data structures and algorithms. Dr. Alam has an impressive publication record, with articles published in renowned journals such as the IEEE Transactions on Communications. He has also presented his research at international conferences and workshops, showcasing his expertise and contributing to the scientific community. Dr. Alam's dedication to excellence has earned him numerous achievements and honors, including the Best Teaching Assistance Award from IIT Mandi. He is a member of professional bodies such as IEEE, IEEE Information Theory Society, IEEE Computer Society etc. Dr. Alam is dedicated to fostering research and building a strong research group. He aims to establish a lab focused on data science, employing information theory, coding, machine learning, and statistical tools. With a commitment to excellence and a passion for advancing knowledge in his field, Dr. Alam continues to make valuable contributions to the academic and research community. In addition to his professional pursuits, Dr. Mohammad Sultan Alam, enjoys music, literature, nature, and traveling. He is actively involved in social upliftment initiatives and working with underprivileged communities.

**Dr. Pallabi Sarkar**

Assistant Professor

Dr. Pallabi Sarkar is a Doctorate from the Department of Electronics and Communication Engineering, Jadavpur University, Kolkata. She has done her Post Graduation from Ryerson University, Toronto, where she was nominated for Governor General’s Gold Medal for her Dissertation on Digital VLSI Design and Optimization Algorithms. She completed her B.Tech in Electronics and Communication Engineering from West Bengal University of Technology. She has experience of working on several VLSI EDA tools and has also worked on designing of optimizing algorithms for processors. She has publications in renowned International journals & Conferences and has authored a book chapter. Dr. Sarkar is the IEEE Student Branch Counsellor at VIT Bhopal. Her research is in the area of optimization of Algorithms, Design Space Exploration, Digital VLSI Design and Design of Application Specific Processor (ASP).

**Dr. Manoj Acharya**

Senior Assistant Professor

Dr. Manoj Acharya completed his Doctorate from the Department of Chemistry, Motilal Vigyan  Adarsh Mahavidyalaya, Bhopal. He has done his M.Sc. in Physical Chemistry and B.Sc. in Mathematics from Barkatullah University, Bhopal. He has 11 years each of industrial and academic experience. He has worked for organizations like Asian Paints (I) Ltd. and Lupin Ltd. He has expertise in Green Corrosion Inhibitors, Polymer Chemistry, Spectroscopy, Electrochemistry, Environmental Science, Cephalosporins, Water Systems and Product Standardization etc. He has worked as an auditor for ISO: 9001-2000 certification and is conversant with Environmental ISO-14001 system. He has rich experience in the implementation of Kizen (5S), TPM and has conducted HAZOP study and Statistical Process Control in APIL and Lupin Ltd. He is trained in developing Entrepreneur Incubation Cell by Entrepreneur Development of India. He has wide exposure in SAP R/3 (PP Module), Enterprise Resource Planning (ERP), I2 and Offshore Project Management. He is an Editorial Board Member of International Journal of Bioscience and Technology, reviewer of Journal of Applied Electrochemistry and has publications in renowned International journals. His area of interest includes research in Green Corrosion Chemistry, Batteries and Natural Products.

**Dr. Ramu Pasupathi Sugavaneshwar**

**Senior Assistant Professor**

Dr Sugavaneshwar R P has been a Postdoctoral Researcher in National Institute for Material Science (NIMS) Japan. He completed his Ph D from Indian Institute of Science (IISc), Bangalore. As a part of collaborative research work during his graduation, Dr. Sugavaneshwar had also undergone a six months internship at NIMS, Japan. He has published several papers in high impact and reputed journals and has filed two patents in the field of Photonics. His main research is focused towards Nano photonics and Nanofabrication. Specifically his work in Japan was towards fabricating various alternative Plasmonic materials and optimizing their optical properties towards exploring novel photonic applications. His area of expertise is Thin film fabrication, Nanofabrication and various characterisation techniques.

**Dr. Sathish Kumar .L**

Senior Assistant Professor

Dr. Sathish Kumar L. is working as a Senior Assistant Professor in the Gaming Division, School of Computing Science and Engineering, VIT Bhopal University. Dr. Sathish completed his Ph.D., in Computer Science and Engineering at Alagappa University, Karaikudi. He has 12 years of academic experience and more than 35 research publications in refereed international and national journals and conferences. Dr. Sathish has two international patents and one design patent to his credit and has received two awards for his research and academic contributions. He has published six textbooks entitled Desktop Publishing, Desktop Publishing Second Edition, Artificial Intelligence, Data Communication and Networking, Java Programming, and Think by Python. He has completed consulting project work in "Text Archaeology with Tagged Indian Languages" with Asia University, Taiwan. He is taking E-Learning courses that are Mobile Game Development Basics, Intermediate, and Advanced. He is a reviewer for leading SCI and Scopus-indexed journals like Wireless Networks Journal, Springer, Alexandria Engineering Journal, Elsevier, IET Electronics Letters, and Ad-hoc Sensor Wireless Networks Journal, Old City Publishing, etc. He has been a resource person/session chair for a number of international conferences. He is a lifetime member of IEEE and a life member of IAENG. He is an active researcher in the fields of medical image processing, deep learning, machine learning, and data science.

**Dr. Anita Yadav**

Assistant Professor

  Dr. Anita Yadav is a  Ph. D. in English Literature from Barkatullah University, Bhopal,MP. She has more than 15 years of teaching & administrative experience; and has expertise in different streams of subjects like Communication Skills, Professional Communication, Soft Skills, and Campus Recruitment Training etc. She has 15 publications in National and International peer reviewed journals including 03 Scopus indexed publications. She has attended more than 30 National and International conferences/Seminars/Workshops. Dr. Yadav is also an editor and reviewer in two International journals including a Scopus indexed Journal on Linguistics.

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# Fully Flexible Credit System (FFCS)

VIT, the name synonymous with world class academic excellence and for creating a student-friendly learning environment on all its campuses, has introduced Fully Flexible Credit System (FFCS), for the benefit of its students. Carefully crafted and designed towards providing amazing advantages for the next generation Engineers and Researchers, FFCS offers total freedom for the students to customise their course, depending on their interests even while catering to the wish list.  Under FFCS, a student can prepare his/her own timetable with the specific courses he/she intends to do in that semester along with the timings of classes and choice of professors.

**Voila!** Learning has never been this fun! FFCS paves a way for the pupils to not only gain knowledge in their interesting subjects but also provides ample time and opportunities to pursue their other interests like sports or club activities. In addition, this system ensures multi-disciplinary curriculum, encouraging students to gain intense knowledge, deeper insights in to varied topics.

**Salient Features**

* FFCS offers all the standard courses of the programme besides future ready courses mentioned in the **Programme Elective Basket** to meet the Industry Requirements.
* Balanced curriculum with engineering, science, humanities and management courses.
* Ample opportunities to do inter-disciplinary courses.
* Opportunity for research experience at undergraduate level.
* Value addition with Major / Minor / Honours option.
* Branch change option in B.Tech. at the end of first year.

# Controller Of Examinations (COE)

The Office of the Controller of Examinations is responsible for preparation, scheduling, and conduct of Term End Examinations (TEE) for all the programmes offered by the University. It also facilitates central valuation of answer scripts and timely publication of Results. The other responsibilities are:

1. Issuing Grade Certificates, Consolidated Statement of Grades and Provisional Certificates as and when candidates become eligible to receive the same.
2. Issue of Transcripts.
3. Preparation of Degree Certificates.
4. Preparation of Rank List / Gold Medallists List.
5. Providing genuineness / verification services to various stakeholders such as Government authorities, corporate bodies, and educational institutions.
6. Facilitating Paper Seeing and Revaluation Processes.
7. Arranging for Pre and Post Auditing of Question Papers and Answer Booklets by both internal and external subject matter experts.
8. Issue of Duplicate Certificates.

# International Relations

VIT Bhopal University has the advantage of the best International Relations built by the VIT group over the years. The International Relations opportunities are common for all VIT campuses.

Our International Relations Office coordinates collaborative academic programs with foreign universities. These encompass both bachelor-level (2+2 program) and integrated master-level (3.5+1.5 program) offerings, enabling students to embark on a portion of their academic journey at prestigious global institutions, ultimately earning degrees from these esteemed establishments.

Our Semester Abroad Program (SAP) encourages VIT Bhopal students, across all disciplines, to spend their final semester at one of our esteemed partner universities abroad. This enriching experience enables students to engage with world-leading research laboratories and gain exposure to cutting-edge research and academic environments.

Furthermore, faculty and student exchange programs between foreign universities and VIT Bhopal foster cross-cultural knowledge sharing. These exchanges bring international professors and researchers to our campus, allowing our students to interact with and learn from global academic leaders.

The IR office of VIT Bhopal actively disseminates information regarding internship and scholarship opportunities worldwide, helping students secure prestigious scholarships such as Erasmus Mundus and Finnish scholarships. These initiatives underscore our commitment to empowering students for success on the global stage.

# Library

The Central Library located in the Academic Block is well resourced with latest online database and international titles or all the Programmes. It has specialized collections of books, volumes, Journals & other resources in Sciences, Engineering and Technology, Biotechnology, Humanities, Social Sciences and Management ranging from printed books, e-books, back volumes and CDs/DVDs.

The Central Library is a well-structured facility with a dedicated reading area, state-of-the-art video conferencing facility and a discussion area to encourage peer learning.