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Ph.D. Admissions / January 2027

DEPARTMENT OF ARCHITECTURE AND PLANNING

The Department of Architecture and Planning at the National Institute of Technology, Tiruchirappalli (NIT-T) is a vibrant hub for architectural education, urban planning, research, and innovation. It offers a comprehensive range of programmes, including the Bachelor of Architecture (B.Arch.), Master of Architecture (M.Arch.) in Energy Efficient and Sustainable Architecture, and Master of Planning (M.Plan.) in Urban Planning. These programmes integrate design creativity, technical knowledge, sustainability principles, and contemporary planning approaches.

The curriculum is designed to foster critical thinking, aesthetic sensibility, analytical skills, and practical expertise, preparing students to address contemporary challenges in architectural design, urban planning, sustainable building design, and heritage conservation. The department also encourages interdisciplinary collaboration, enabling students to explore emerging areas such as smart cities, environmental design, urban development, and sustainable built environments.

The faculty of the Department of Architecture and Planning comprises experienced educators, researchers, and practising professionals who bring a blend of academic rigour and professional expertise. They are actively engaged in research projects, community outreach, and consultancy, contributing to the advancement of architectural knowledge and planning practice. The department boasts well-equipped design studios, computer laboratories with advanced architectural and planning software, material testing facilities, and workshops that provide hands-on experience in model making, construction techniques, and design development.

With its strong emphasis on creativity, technical excellence, sustainability, and interdisciplinary learning, the Department of Architecture and Planning at NIT Tiruchirappalli offers an inspiring environment for nurturing future architects, planners, researchers, and built-environment professionals.

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Ph.D. Admissions / January 2027

DEPARTMENT OF CHEMICAL ENGINEERING

The Department of Chemical Engineering at the National Institute of Technology (NIT) Tiruchirappalli is a dynamic and vibrant center of academic excellence, known for its strong emphasis on both fundamental and applied aspects of chemical engineering. The department offers a well-structured B.Tech programme in Chemical Engineering, M.Tech programmes in Chemical Engineering and Process Control and Instrumentation, along with opportunities for doctoral research in emerging areas. With a curriculum designed to blend theory, practice, and research, the department prepares students to address the complex challenges of the chemical, energy, pharmaceutical, and allied industries, while also promoting innovation and entrepreneurship.

The department is home to a highly qualified faculty with diverse research interests, ranging from process modeling, energy technology, and catalysis to environmental engineering and biotechnology. Faculty members are actively involved in sponsored research projects, consultancy assignments, and collaborations with industry and research organizations. To support academic and research pursuits, the department is equipped with modern laboratories, pilot plant facilities, sophisticated analytical instruments, and advanced computational tools. With a focus on academic excellence, research innovation, and industry relevance, the Department of Chemical Engineering at NIT Tiruchirappalli offers an enriching environment for students to excel and contribute meaningfully to the field.

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DEPARTMENT OF CHEMISTRY

The Department of Chemistry at the National Institute of Technology, Tiruchirappalli (NIT-T) plays a vital role in providing foundational science education and research support to various engineering disciplines. It offers postgraduate course in Chemistry, focusing on both theoretical and practical aspects of the subject. The curriculum is designed to build a strong base in physical, organic, inorganic, and analytical chemistry, enabling students to apply chemical principles in materials science, environmental studies, and industrial processes. The department also facilitates research opportunities that contribute to innovations in catalysis, nanomaterials, and green chemistry.

The faculty of the Department of Chemistry comprises highly qualified and research-active professors who are dedicated to advancing knowledge through cutting-edge research and publications. They collaborate with national and international research institutions and industries, contributing to a vibrant academic atmosphere. The department is equipped with modern laboratories featuring advanced instruments such as spectrometers, chromatographs, and microscopy facilities, which support both teaching and research activities. With its strong emphasis on academic rigor and research excellence, the Department of Chemistry at NIT, Tiruchirappalli continues to provide critical scientific insights and training that underpin the institute's engineering and technological advancements.

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DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering at the National Institute of Technology, Tiruchirappalli (NIT-T) is one of the oldest and most prestigious departments of the institute, with a legacy of excellence in education, research, and consultancy. It offers a range of undergraduate, postgraduate, and doctoral programmes that cover various domains such as Structural Engineering, Environmental Engineering, Transportation Engineering and Management, Construction Technology and Management, and Geotechnical Engineering. The department is known for its industry-oriented curriculum, strong academic rigor, and emphasis on developing skilled professionals who can meet global challenges in civil infrastructure and sustainability.

The department boasts a highly qualified and experienced faculty team actively engaged in teaching, cutting-edge research, and industrial consultancy projects. Faculty members are recognized for their contributions to national and international research initiatives, with numerous publications and patents to their credit. To support academic and research activities, the department is equipped with state-of-the-art laboratories, advanced software tools, and modern testing facilities. With a vibrant academic environment, excellent research infrastructure ,and strong industry connections, the Department of Civil Engineering at NIT, Tiruchirappalli continues to be a leading center for civil engineering education and innovation in India.

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Ph.D. Admissions / January 2027

DEPARTMENT OF COMPUTER APPLICATIONS

The Department of Computer Applications at the National Institute of Technology, Tiruchirappalli (NIT-T) offers specialized programmes focused on the application of computer science and information technology in diverse domains. The department primarily offers a Master of Computer Applications (MCA) programme and M.Tech. (Data Analytics) designed to provide students with a strong foundation in software development, database management, networking, and emerging areas like data science and cybersecurity. The curriculum is regularly updated to keep pace with the rapid evolution of technology, ensuring that graduates are well-equipped to meet industry demands and pursue research opportunities.

The department is supported by a dedicated team of faculty members with expertise in areas such as software engineering, artificial intelligence, big data analytics, and cloud computing. Faculty actively engage in research, consultancy, and collaboration with industries, contributing to a dynamic academic environment. The department's facilities include modern computer labs with high-performance systems, access to advanced software tools, and resources for hands-on learning and project work. With its focus on academic excellence, industry relevance, and research innovation, the Department of Computer Applications at NIT, Tiruchirappalli prepares students to become skilled professionals and innovators in the IT sector.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Department of Computer Science and Engineering at the National Institute of Technology, Tiruchirappalli (NIT-T) is a premier center for computer science education and research in India. It offers a comprehensive B.Tech programme in Computer Science and Engineering, M.Tech programmes in Computer Science and Engineering, and Ph.D. programmes in various frontier areas. The curriculum is regularly updated to align with the latest technological advancements, ensuring students are well-prepared for careers in software development, data science, artificial intelligence, cybersecurity, and research. The department emphasizes a strong foundation in core principles along with exposure to cutting-edge technoiogies through electives and project work.

The department has a distinguished team of faculty members with expertise in areas such as machine learning, networks, cybersecurity, cloud computing, and theoretical computer science. Many faculty members are involved in funded research projects, collaborations with industry, and international partnerships. To support academic and research activities, the department is equipped with modern computer labs, high-performance computing facilities, specialized research labs, and access to advanced software tools. With a focus on academic excellence, interdisciplinary research, and innovation, the Department of Computer Science and Engineering at NIT, Tiruchirappalli continues to nurture skilled professionals and researchers who contribute significantly to the global technology landscape.

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Department of Electrical and Electronics Engineering

The Department of Electrical and Electronics Engineering at the National Institute of Technology, Tiruchirappalli (NIT-T) is renowned for its rich tradition of academic excellence and innovation. It offers a B.Tech programme in Electrical and Electronics Engineering, M.Tech programmes in Power Systems and Power Electronics, and a vibrant Ph.D. research programme in diverse areas. The curriculum is thoughtfully designed to provide a strong theoretical foundation along with practical exposure, preparing students for careers in industries such as energy, automation, electronics, and communication, as well as for advanced research and development roles.

The department is supported by a highly qualified and research-oriented faculty whose expertise spans across power systems, control systems, renewable energy, electric drives, and smart grids. Faculty members are actively engaged in research projects funded by prestigious national and international agencies and collaborate extensively with industry partners. The department boasts excellent facilities, including state-of-the-art laboratories for power electronics, electrical machines, control systems, and high voltage engineering, along with advanced software tools for simulation and analysis. With its blend of strong academic programs, distinguished faculty, and modern infrastructure, the Department of Electrical and Electronics Engineering at NIT, Tiruchirappalli continues to be a leading destination for quality education and research in the field.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The Department of Electronics and Communication Engineering at the National Institute of Technology, Tiruchirappalli (NIT-T) is a leader in electronics and communication education, known for its academic rigor and commitment to innovation. It offers a B.Tech. programme in Electronics and Communication Engineering, M.Tech programmes in Communication Systems, VLSI System, and a strong Ph.D. research programme in emerging areas. The curriculum is carefully structured to combine fundamental concepts with advanced topics like wireless communication, embedded systems, signal processing, and semiconductor technology, preparing students for both industry careers and research roles in leading organizations.

The department is staffed with a distinguished group of faculty members who are actively involved in cutting-edge research and development across diverse areas such as IoT, machine learning for communications, RF systems, and microelectronics. Faculty members regularly undertake funded projects and collaborate with reputed industries and research labs globally. The department's facilities include state-of-the-art laboratories for digital and analog electronics, communication systems, VLSI design, embedded systems, and signal processing, along with access to advanced simulation and design software. With a strong emphasis on academic excellence, practical learning, and research, the Department of Electronics and Communication Engineering at NIT, Tiruchirappalli continues to produce highly skilled graduates who excel in various sectors worldwide.

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DEPARTMENT OF ENERGY AND ENVIRONMENT

The Department of Energy and Environment at the National Institute of Technology, Tiruchirappalli (NIT-T) is a forward-looking department focused on addressing the critical challenges of sustainable energy and environmental management. It offers specialized academic programmes that integrate principles of energy engineering, environmental science, and sustainable development.

The curriculum is designed to provide students with a strong theoretical foundation and practical skills in renewable energy technologies, energy efficiency, and pollution control. These programmes prepare graduates to contribute to the growing global demand for clean energy solutions and effective environmental stewardship.

The department is supported by a team of experienced faculty members actively engaged in cutting-edge research in areas such as solar and wind energy, bioenergy, and environmental monitoring. Faculty members collaborate extensively with government agencies, industries, and research organizations, bringing real-world perspectives into the classroom.

The department boasts modern laboratories equipped with advanced instruments for energy conversion, environmental analysis, and pollution measurement, along with software tools for simulation and modeling.

With its commitment to innovation, research excellence, and sustainable development, the Department of Energy and Environment at NIT, Tiruchirappalli plays a vital role in training professionals who drive positive environmental and energy transformations.

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DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

The Department of Humanities and Social Sciences at the National Institute of Technology, Tiruchirappalli (NIT-T) plays a crucial role in nurturing well-rounded engineers and technologists by providing courses that emphasize communication skills, ethics, management, and social sciences. The department offers a variety of programmes and electives in areas such as English language proficiency, professional communication, economics, sociology, and psychology. These courses are designed to enhance students' critical thinking, interpersonal skills, and ethical awareness, preparing them to become responsible professionals and effective leaders in a globalized world.

The department is supported by a dedicated faculty team with expertise in linguistics, literature, behavioral sciences, and management studies, who are actively involved in research and consultancy. They employ innovative teaching methods to foster a student-centric learning environment that encourages dialogue, creativity, and cultural awareness. The department is equipped with modern language labs, seminar rooms, and digital resources that facilitate interactive learning and skill development. Through its focus on holistic education and research, the Department of Humanities and Social Sciences at NIT, Tiruchirappalli contributes significantly to the personal and professional growth of its students.

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Department of Instrumentation and Control Engineering

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The Department of Instrumentation and Control Engineering at the National Institute of Technology, Tiruchirappalli (NIT-T) is a specialized center of excellence focused on the fields of measurement, control, and automation. It offers a B.Tech programme in Instrumentation and Control Engineering, M.Tech. programme in Industrial Automation and opportunities for doctoral research in various interdisciplinary areas. The curriculum is designed to provide a strong grounding in instrumentation principles, control system design, robotics, automation, and process control, equipping students to meet the demands of industries such as manufacturing, aerospace, healthcare, and energy.

The department is supported by a team of highly qualified and dedicated faculty members who are actively engaged in teaching, research, and consultancy projects. Their expertise spans areas like industrial automation, control theory, signal processing, smart sensors, and artificial intelligence applications in control systems. To facilitate advanced learning and research, the department is equipped with modern laboratories, including labs for process control, industrial instrumentation, robotics, and embedded systems, along with access to advanced simulation tools and software platforms. With its strong academic foundation, research orientation, and excellent infrastructure, the Department of Instrumentation and Control Engineering at NIT, Tiruchirappalli continues to produce industry-ready professionals and innovative researchers.

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DEPARTMENT OF MANAGEMENT STUDIES

The Department of Management Studies at the National Institute of Technology, Tiruchirappalli (NIT-T) is dedicated to fostering leadership, innovation, and managerial excellence. It offers a comprehensive Master of Business Administration (MBA) programme with specializations in areas such as Finance, Marketing, Human Resource Management, and Operations. The curriculum is designed to blend theoretical knowledge with practical skills, focusing on contemporary business practices, strategic management, and entrepreneurship. The department also emphasizes research and consultancy, preparing students to navigate and lead in dynamic business environments across various industries.

The faculty of the Department of Management Studies comprises experienced academicians and industry professionals who bring a rich blend of academic expertise and real-world insights. They are actively involved in research, training programmes, and industry collaborations, contributing to a vibrant learning atmosphere. The department is equipped with modern classrooms, computer labs, and access to business simulation software and databases, enabling students to gain hands-on experience and develop analytical capabilities. With its strong focus on academic rigor, practical learning, and research, the Department of Management Studies at NIT, Tiruchirappalli continues to nurture skilled managers and entrepreneurs ready to contribute effectively to the global business landscape.

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DEPARTMENT OF MATHEMATICS

The Department of Mathematics at the National Institute of Technology, Tiruchirappalli (NIT-T) serves as a foundational pillar for all engineering disciplines, providing rigorous mathematical education and research support. The department offers courses in applied and pure mathematics, including advanced topics such as algebra, calculus, differential equations, numerical methods, and optimization. These programmes are designed to equip students with strong analytical and problem-solving skills that are essential for innovation and research in engineering, computer science, and technology. In addition to undergraduate teaching, the department also supports doctoral research in various areas of mathematics and its applications.

The faculty in the Department of Mathematics comprises highly experienced and research-oriented scholars who actively contribute to national and international research communities. Their expertise spans diverse fields such as applied mathematics, computational mathematics, statistics, and mathematical modeling. The department is equipped with modern computing facilities and software tools that facilitate teaching and advanced research work. With a commitment to academic excellence and interdisciplinary collaboration, the Department of Mathematics at NIT, Tiruchirappalli plays a crucial role in nurturing intellectual growth and supporting the technical advancement of the institute.

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DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering at the National Institute of Technology, Tiruchirappalli (NIT-T) is a cornerstone of the institute's engineering education, known for its comprehensive programmes and strong research culture. It offers a B.Tech programme in Mechanical Engineering, M.Tech programmes in various specializations such as Thermal Power Engineering, Industrial Safety Engineering, along with a vibrant Ph.D. research programme. The curriculum integrates fundamental engineering principles with hands-on experience, preparing students for diverse roles in industries like automotive, aerospace, energy, and manufacturing, as well as for advanced research and development.

The department is staffed by highly experienced and research-active faculty members whose expertise covers areas such as computational fluid dynamics, renewable energy, robotics, materials engineering, and thermal sciences. Faculty members regularly engage in sponsored research projects, consultancy, and collaborations with leading industries and academic institutions. The department is equipped with state-of-the-art laboratories including those for fluid mechanics, heat transfer, CAD/CAM, robotics, and materials testing, alongside modern workshops and computational facilities. With its strong academic foundation, cutting-edge research, and excellent infrastructure, the Department of Mechanical Engineering at NIT, Tiruchirappalli continues to nurture skilled engineers and innovators who contribute significantly to the field.

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Department of Metallurgical and Materials Engineering

The Department of Metallurgical and Materials Engineering at the National Institute of Technology, Tiruchirappalli (NIT-T) is a distinguished center for education and research in the science and engineering of materials. The department offers a comprehensive B.Tech programme in Metallurgical and Materials Engineering, along with M.Tech. in Materials Science and Engineering, Industrial metallurgy, Welding Engineering and Ph.D. programmes focused on advanced materials, processing techniques, and characterization methods. The curriculum emphasizes a deep understanding of metals, ceramics, polymers, composites, and nanomaterials, preparing students to meet the evolving demands of industries such as aerospace, automotive, electronics, and energy.

The department is supported by a team of experienced faculty members engaged in cutting-edge research areas like materials characterization, corrosion science, surface engineering, nanotechnology, and biomaterials. Faculty actively contribute to national and international research projects and collaborate with leading industries and research institutions. The department boasts modern laboratories equipped with advanced instruments for microscopy, spectroscopy, mechanical testing, thermal analysis, and materials processing. With its strong academic programmes, research focus, and state-of-the-art facilities, the Department of Metallurgical and Materials Engineering at NIT, Tiruchirappalli continues to develop skilled professionals and innovative researchers who drive advancements in materials science and engineering.

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Ph.D. Admissions / January 2027

Department of Physics

The Department of Physics at the National Institute of Technology, Tiruchirappalli (NIT-T) is dedicated to imparting strong foundational knowledge and fostering research in the fundamental principles of physics. It offers courses that cover a broad spectrum of topics including classical mechanics, quantum mechanics, thermodynamics, electromagnetism, and modern physics, which support the academic curriculum of various engineering and science programmes. The department also encourages advanced research through its Ph.D. programmes, focusing on areas such as condensed matter physics, material science, and applied physics, enabling students to engage with cutting-edge scientific challenges.

The department boasts a highly qualified and research-active faculty whose expertise spans experimental and theoretical physics. Faculty members are involved in sponsored research projects, collaborations with national and international institutions, and contribute extensively to scientific publications. The department is equipped with modern laboratories featuring sophisticated instruments for optics, spectroscopy, cryogenics, and materials characterization, providing students and researchers with excellent infrastructure to conduct experiments and develop innovative solutions. With its strong emphasis on academic rigor and research excellence, the Department of Physics at NIT, Tiruchirappalli plays a vital role in nurturing scientific inquiry and supporting technological advancements.

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DEPARTMENT OF PRODUCTION ENGINEERING

The Department of Production Engineering at the National Institute of Technology, Tiruchirappalli (NIT-T) is a premier department dedicated to the study and advancement of manufacturing and production technologies. It offers a B.Tech. programme in Production Engineering, along with M.Tech and Ph.D. programmes that focus on areas such as manufacturing systems, automation, quality control, and industrial engineering. The curriculum is designed to blend theoretical knowledge with practical skills, preparing students to excel in modern manufacturing industries, supply chain management, and process optimization.

The department is staffed by experienced faculty members who are actively involved in research and consultancy in diverse fields including advanced manufacturing processes, robotics, CAD/CAM, additive manufacturing, and sustainable production. Faculty members regularly engage in funded research projects and collaborate with leading industries and research organizations. The department is well-equipped with advanced laboratories featuring CNC machines, robotic workstations, metrology labs, and simulation software to support hands-on learning and innovative research. With its strong academic foundation, industry-oriented approach, and modern infrastructure, the Department of Production Engineering at NIT, Tiruchirappalli continues to nurture skilled engineers ready to meet the challenges of the evolving manufacturing sector.

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Part-Time External In-Service (B.E. / B.Tech.)

Candidates holding regular positions as Scientist / Engineer / Manager, who possess a B.E. / B.Tech. degree and have a minimum of 10 years of experience in Industry / R&D organizations. Candidates must be employed in Government / Quasi-Government organizations, Public Sector Units, and National Research Laboratories with well-established R&D facilities. Additionally, at least 7 out of the 10 years of experience must have been acquired after the completion of the B.E. or B.Tech. degree. GATE qualification is not mandatory

(i) in the GEN / GEN-EWS / OBC-NCL category must possess 60% or above aggregate marks (equivalently, CGPA at least 6.5/10), and

(ii) in the SC / ST / PwD category must possess 55% aggregate or above aggregate marks (equivalently, CGPA at least 6.0/10.0), in both B.E. / B.Tech degree for admission to the Ph.D.

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