

Programs Devoted to Teaching or Research

VVITU is envisaged as a multi-disciplinary university offering courses that are the required and relevant for the sustained growth of India's economy, addressing the requirements of (i) National Development, (ii) Industry requirements, (iii) Ensuring required competency and expertise for global relevance of students, (iv) meeting the research and development needs of the country.

Based on its strength of current course offerings in the areas of engineering and technology and building on them, along with other disciplines that can be aligned, VVITU proposes to offer courses in the following disciplines through the following institutions:

- Institute of Technology (Existing)
- School of Pharmacy
- School of Arts and Sciences
- Appa International School of Business
- School of Law

Skill Centers at VVITU

The following are the skilled programs offered/ proposed by the Skill Centers at VVITU

1	Traditional Skill Centre	<ul style="list-style-type: none"> • Agricultural Research • Aquaculture research • Horticulture • Fire starting, Sewing Research
2	Noetic Research Centre	<ul style="list-style-type: none"> • Astro Physics • Physical Sciences • Tesla • Cosmos • Cellular and Molecular oncology • Fashion
3	Telugu Language Appreciation	<ul style="list-style-type: none"> • Telugu Language Appreciation • Mass Communication

4	Skill Centre – Siemens Centre of Excellence	<ul style="list-style-type: none"> • Essentials for NX Designers • NX Basic Design • NX Sheet Metal • Basic Turning - Sinumerik Operate 828D 840Dsl • Basic Milling - Sinumerik Operate 828D 840Dsl • TURNING - NC Control Programming • MILLING - NC Control Programming • RobCAD Basics • Basic Robotics • Advanced Simulation Process • Using Teamcenter • Progressive Die Wizard • Arc welding robot • Spot Welding Robot • Material Handling Robot • Basics of PLC • Basic Course on Ac - Dc Drives • Basics of Induction Motor • Basics of Low Voltage Switch Gear-1 • Basic Mechatronics etc.
5	Skill Centre – Dassault 3D Experience Lab	<ul style="list-style-type: none"> • CATIA Product design • CATIA Surface Design
6	Skill Centre – GOOGLE CODE LABS	<ul style="list-style-type: none"> • Android Application Development • Embedded System • Internet of Things etc.

The following UG and PG and Doctoral programs are being offered/ proposed in VVITU.

Programs being offered in VVIT

Programs	Level	Duration	Courses
B. Tech	UG	4 Years	<ul style="list-style-type: none"> ● Civil Engineering ● Electrical and Electronics Engineering ● Mechanical Engineering ● Electronics and Communication Engineering ● Computer Science and Engineering ● Information Technology ● Computer Science and Engineering (Artificial Intelligence and Data Science) ● Computer Science and Engineering (Artificial Intelligence & Machine Learning) ● Computer Science and Engineering (Internet of Things) ● Computer Science and Engineering (IoT and Cyber Security including Block Chain Technology) ● Artificial Intelligence & Machine Learning
M.Tech	PG	2 Years	<ul style="list-style-type: none"> ● Computer Science and Engineering ● Machine Design ● VLSI & ES ● Structural Engineering ● Power Electrical and Electronics Drives

Programs proposed to be offered in School of Engineering & Technology, VVITU

Programs	Level	Duration	Courses / Programs
B. Tech	UG	4 Years	<ul style="list-style-type: none"> • Civil Engineering • Electrical and Electronics Engineering • Mechanical Engineering • Electronics and Communication Engineering • Computer Science and Engineering • Information Technology • Courses / Programs in Emerging Technologies
M.Tech	PG	2 Years	<ul style="list-style-type: none"> • Computer Science and Engineering • Machine Design • VLSI & ES • Structural Engineering • Power Electrical and Electronics Drives • Specializations in Emerging Technologies
BCA	UG	3 years	<ul style="list-style-type: none"> • Computer Applications
MCA	PG	3 Years	<ul style="list-style-type: none"> • Computer Applications

Programs proposed to be offered in School of Pharmacy, VVITU

Programs	Level	Duration	Courses
B. Pharmacy	UG	4 Years	<ul style="list-style-type: none"> • Bachelor of Pharmacy
M.Pharm	PG	2 Years	<ul style="list-style-type: none"> • Pharmaceutics • Pharmaceutical Analysis • Specializations in Emerging Areas of Pharmacy

Programs proposed to be offered in School of Arts and Sciences, VVITU

Programs	Level	Duration	Courses
B. Sc (Honors)	UG	3 Years	<ul style="list-style-type: none"> ● Mathematics ● Physics ● Chemistry ● Statistics ● Electronics ● Computer Science ● Biotechnology ● Zoology ● Microbiology ● Biochemistry ● Agriculture ● Emerging Areas of Science
B. Com (Honors)	UG	3 Years	<ul style="list-style-type: none"> ● Commerce
M. Com	PG	2 Years	<ul style="list-style-type: none"> ● Information Systems ● Business Analytics ● Finance ● Marketing
M. Sc.	PG	2 Years	<ul style="list-style-type: none"> ● Mathematics ● Physics ● Computers ● Electronics ● Organic Chemistry ● Analytical Chemistry ● Biochemistry ● Microbiology ● Agriculture ● Emerging Areas

Programs proposed to be offered in Appa International School of Business, VVITU

Programs	Level	Duration	Courses
BBA	UG	3 Years	<ul style="list-style-type: none"> ● Bachelor of Business Administration
MBA	PG	2 Years	<ul style="list-style-type: none"> ● Marketing, ● Human Resources and Management ● Finance ● International Business ● Information Systems ● Business Analytics ● Emerging Areas

Programs proposed to be offered in School of Law, VVITU

Programs	Level	Duration	Courses
LLB	UG	5 Years	<ul style="list-style-type: none"> ● Legislative of Law
LLM	PG	2 Years	<ul style="list-style-type: none"> ● Corporate Law ● Human Rights Law ● Intellectual Property Law ● Cybersecurity and Privacy Law

The scrupulous integration of traditional sciences with the latest technologies fosters cross-disciplinary collaboration and encourages a more comprehensive approach to problem-solving and innovation. It enables us to leverage the strengths of both traditional knowledge and modern advancements for the betterment of society and the world. VVITU knows that it is essential to do this integration respectfully, acknowledging the cultural significance and intellectual property rights associated with traditional knowledge.

The modern technologies are increasingly being intertwined in various fields, leading to significant advancements and innovative solutions for all challenging problems in every other domain.

1. School of Engineering & Technology

The inclusion of new age engineering and technology courses in university curricula serves important purposes, keeping in mind the rapidly evolving landscape of technology and the needs of modern society as VVITU believes.

VVITU by virtue, with a strong ideology towards the pillar “Yogah Karmasu Koushalam”, is ready to address Emerging Technological Trends, planning to incorporate New age engineering and technology courses to stay current and relevant in a rapidly changing technological world. By including emerging fields like artificial intelligence, blockchain, cybersecurity, Internet of Things (IoT), and renewable energy, our plan is to prepare students for the jobs and challenges of the future.

VVITU believes the importance of incorporating the new age engineering and technology courses in its curricula to meet the demands of a rapidly changing world. These courses enable us to produce skilled graduates, drive innovation, contribute to sustainable development, and remain relevant in the technological landscape. By preparing students to embrace and shape the future of technology, VVITU firmly adheres to its foundation policies to play a vital role in societal progress and transformation.

VVITU keeping an eye on the Industry 4.0 constantly for the benefit of its stakeholders. Industry 4.0, is characterized by automation, digitization, and data-driven decision-making, is transforming various sectors, VVITU endeavors to equip students with the skills needed to navigate this technological revolution effectively.

New age engineering and technology courses often include sustainable practices and eco-friendly solutions. VVITU integrates these topics in the curriculum to promote environmental consciousness among students and drive sustainability efforts. As technology continues to reshape industries worldwide, countries strive to remain competitive on the global stage and VVITU stringently plays its stint in realizing and easing this situation.

2. School of Arts and Science

Under **visual and performing arts**, the founder having flair in the arts, VVITU introduces Traditional Music and Theatre Arts. This school of Visual and Performing Arts, educates the aspiring students with Traditional musical instruments and artistic techniques, being blended with digital technologies to create new forms of art and entertainment, such as virtual reality experiences and interactive installations, ambitiously.

3. Appa School of Business

Appa School of Business is a fitting tribute to traditional values and family businesses

VVITU believes that the establishment of a School of Business and Management Studies is crucial for meeting the growing demand for business education and addressing the complexities of the modern business landscape. We endeavor to provide valuable skills and knowledge to aspiring entrepreneurs, managers, and professionals, fostering economic development by nurturing a skilled workforce.

The name “Appa” taken from the Founder’s father’s name “Sri Vasireddy Appa Rao”, which globally means “Father” in many domestic and international languages. Typically, a father becomes the first Management Guru for any person in his early life, so the name meant relevant, for the VVIT UNIVERSITY’s in turns and all.

It will promote innovation, leadership development, and sustainable business practices, contributing to the overall growth and prosperity of the region by creating a solid foundation for the business community. Additionally, the school can facilitate knowledge exchange, global exposure, and research collaborations, making it a hub for intellectual and entrepreneurial excellence while empowering individuals to drive positive change in both local and global contexts.

4. School of Pharmacy

VVITU respects the mantra “Vaidyo Naraayano Harihi”, the belief that the people of olden days kept in their heart and their life spanned more years, evidentially. The recall of those ancient days’ techniques and tips with new age pharmaceutical techniques would definitely bring out successful medicines. Traditional medical knowledge, such as herbal medicine and ancient healing practices, is being combined with modern biotechnology and genetic engineering. This integration has led to the development of personalized medicine, gene therapies, and advanced diagnostic tools.

5. The School of Law

The proposed school of law holds significant importance in the academic landscape and society at large for several reasons. It provides specialized education and training for individuals aspiring to become legal professionals, including lawyers, judges, legal scholars, and legal support staff. It plays a crucial role in shaping the next generation of legal practitioners and leaders.

The inclusion of Traditional skill center, Noetic Sciences and Telugu Language Appreciation etc along with Engineering and Technology is to open avenues for interdisciplinary research and development among the students to uplift the primary purpose of our VVITU’s foundation to provide Skill Development, Indian culture, and Environmental Consciousness.

1. Traditional Skill Centre

The founder and foundation stone laid belong to this land of agriculture. The urge to serve the people of this land and across the Telegu states, VVITU initiates this traditional skill center. It educates the aspirants with Traditional agricultural practices that being combined with precision farming techniques, remote sensing, and data analytics. The new age farmers can be empowered with modern technologies like drones and satellite imagery to monitor crops, optimize irrigation, and improve overall efficiency, whether it is agriculture, aquaculture or horticulture. Traditional knowledge

of materials is utilized alongside nanotechnology and advanced manufacturing techniques to develop new materials with enhanced properties and applications.

2. Noetic Research Centre

Absolutely being the brainchild of the founder, VVITU endeavors to introduce NOETIC Research Center, where astrophysics to fashion courses will enlighten the aspiring students with the necessary skills.

Traditional observational astronomy and astrophysics is integrated with cutting-edge telescopes, space probes, and data analysis techniques. Modern space missions explore the cosmos using advanced technology to capture images and collect data from distant celestial bodies.

Indigenous knowledge and practices are being incorporated into AI and machine learning models to address environmental and social challenges more effectively, such as in weather forecasting and land use planning. Physical Sciences, Tesla, Cosmos, Cellular and Molecular oncology are upfront in the most needed courses for the future generations.

Traditional ecological knowledge from indigenous communities is being incorporated into modern environmental science and conservation efforts. Combining traditional wisdom with modern technologies helps in understanding ecosystems and implementing sustainable practices.

Traditional psychological approaches are complemented by brain imaging technologies and computational models, leading to a deeper understanding of the brain and mental processes.

3. Centre for Telugu Language Appreciation

A Center for Telugu Language Appreciation at the university level in India could play a crucial role in promoting and preserving the Telugu language and culture. By default, Language Preservation by documenting and preserving Telugu language in its various forms, including dialects and historical variations. The Centre will endeavor to develop and maintain a comprehensive archive of Telugu literature, both classical and contemporary. Alongside developing Research and Scholarship that encourages

research on Telugu language, literature, linguistics, and related subjects and publishing research papers, journals, and books that contribute to the understanding and appreciation of the Telugu language, the Centre will embark on Cultural Promotion by organizing cultural events, festivals, and seminars to promote Telugu arts, music, dance, and theater in collaboration with artists, performers, and cultural organizations to showcase the richness of Telugu culture. This will help in engagement with local Telugu-speaking communities to understand their linguistic needs and concerns. Language courses at different proficiency levels will be offered to students interested in learning Telugu. The Centre will also actively implement Digital Initiatives by creating online resources, including digital libraries, e-books, and multimedia content, to make Telugu literature and language accessible globally. Efforts will be made to develop language-learning apps and platforms to facilitate easy and interactive learning. This will help to Promote the use of Telugu in digital platforms, including software development, content creation, and social media. This paves the way for Collaboration and Networking where collaborations with other universities, research institutions, and cultural organizations to strengthen the study of Telugu language and culture can be established. The Global Touch to the Centre is complete with the provision of Translation Services that make Telugu literature and academic works accessible to a wider audience. Also, support the translation of works from other languages into Telugu to enrich the language's literary landscape.

Finally, VVITU, to uphold its ideology, endeavors to introduce the above mentioned faculties / schools to involve a convergence of multiple disciplines. By integrating these courses, VVITU encourages interdisciplinary learning, fostering collaboration among students from different academic backgrounds with different ambitions and aspirations in their life. The proposed university is planning to offer well designed programs to award of undergraduate, postgraduate and PhD degrees, besides Diplomas. While designing the programs the university is going to adhere NEP – 2020, with multiple entry and exist options.

The mission of the university is to pioneer in each proposed stream, and the programs will be chosen accordingly while paying equal attention to those in other professional areas including theatre arts, cine production, liberal arts etc.

