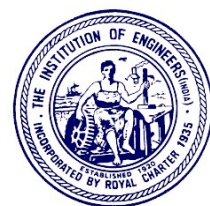




**DEPARTMENT OF CIVIL ENGINEERING
V.R. SIDDHARTHA SCHOOL OF ENGINEERING
SIDDHARTHA ACADEMY OF HIGHER EDUCATION**

**(An Institution Deemed to be University)
(Under Section 3 of UGC Act, 1956)**

Kanuru, Vijayawada – 520007, AP. www.vrsiddhartha.ac.in



Value-Added Course on Fundamentals of Geotextiles and its Applications

Event Type	Value Added Course
Date / Duration	21-01-2026 to 08-04-2026 & 3:30 PM to 5:00 PM
Resource Person	Dr. CH RV Prasad, CED-VRSSE
Name of Coordinator	Dr. CH RV Prasad, Associate Professor, CED-VRSSE
Target Audience	II/IV B.Tech of Civil
Total no of Participants	26
Objective of The-event	The objective of this course is to equip students with a fundamental understanding of geotextiles, including their types, manufacturing processes, properties, and functional characteristics. The course aims to develop the ability to identify suitable geotextile materials for various geotechnical and civil engineering applications. It also focuses on imparting knowledge of key functions such as separation, filtration, drainage, reinforcement, and erosion control, along with their practical significance in improving soil performance and structural stability.
Outcome of The-event	The value-added course successfully enhanced the understanding of students in the fundamentals of geotextiles and their practical applications in civil engineering. Participants gained knowledge about different types of geotextiles, their manufacturing processes, properties, and functional uses. Students developed the ability to identify appropriate geotextile solutions for various field conditions and engineering requirements. Through interactive sessions and discussions, students were able to relate theoretical concepts to real-world applications, thereby strengthening their practical and analytical skills. The course contributed to building a strong foundation in geosynthetics, preparing students for advanced learning and professional applications in geotechnical and infrastructure projects.
Feedback / Suggestions	Students gave positive feedback on the Geotextiles course and requested similar programmes in this manner.

Brochure

Fundamentals of Geotextiles and its Applications

21.01.2026 to 08.04.2026



Organized by
Department of Civil Engineering
VR Siddhartha School of Engineering

SIDDHARTHA
ACADEMY OF HIGHER EDUCATION
(Deemed to be University)

Chief Patron
Sri KV Chowdary, IRS
Chancellor, SAHE

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Vice Chancellor, SAHE

Prof A V Ratna Prasad,
Pro- Vice Chancellor, SAHE

Prof B Panduraranga Rao
Director, Infrastructure & Consultancy

Prof D Venkat Rao, Dean, VRSSE

Convenor
Dr V Mallikarjuna, HoD, Civil

Coordinator
Dr. CH RV Prasad, Associate Professor, CED

BACKGROUND

The course *Fundamentals of Geotextiles and Their Applications* provides an introduction to geotextile materials, their properties, functions, and practical uses in civil engineering. It covers key applications such as soil reinforcement, filtration, drainage, separation, and erosion control, helping students understand how geotextiles improve the performance and durability of geotechnical and infrastructure projects.

OBJECTIVE

The objective of this course is to equip students with a fundamental understanding of geotextiles, including their types, manufacturing processes, properties, and functional characteristics. The course aims to develop the ability to identify suitable geotextile materials for various geotechnical and civil engineering applications. It also focuses on imparting knowledge of key functions such as separation, filtration, drainage, reinforcement, and erosion control, along with their practical significance in improving soil performance and structural stability.

ABOUT VRSEE & SAHE

In 2024, VR Siddhartha Engineering College was declared as a deemed-to-be university under Section 3 of the UGC Act, 1956 by Ministry of Education, Government of India. With a legacy of educational excellence, the institution's UGC-granted autonomy, renewed through 2027-28, provides a strong foundation for its transformation. Established in 1977, we are the first self-financed engineering college in the composite state of Andhra Pradesh. Offering 9 UG and 7 PG programs, we have student strength of 1470. Accredited by NBA since 1998 and recognized for Outcome Based Education (Tier I) since 2013, we are ranked 141st in NIRF (2022).

The institute was reaccredited by NAAC with an 'A+' grade in 2021 and ISO 21001:2018 certified and we are a platinum-rated institution by AICTE, CII for four consecutive years. VRSEC is recognized among India's top engineering institutions by agencies like Outlook, Data Quest and Careers 360. The college has consistently ranked within the top 200 in the NIRF rankings for the last seven years. With 319 faculty, including 134 Ph.D.s, we collaborate with top foreign universities and industry partners. Our students benefit from strong alumni support, international exposure, and state-of-the-art facilities, including solar power generation for sustainability.

ABOUT CIVIL ENGINEERING DEPARTMENT

One of the oldest departments of the college offers undergraduate and postgraduate program (Structural Engineering). Both programs are accredited by NBA. The department is privileged to be recognized as one of the best Civil Engineering departments in the country as we are awarded Best Industry Institute Linked Technical Institute. The department has state of the art advanced laboratories to cater the needs of students, research and consultancy. The department has total faculty of 29, with 18 doctorates. The department takes pride in its highly experienced faculty specialized in all major specializations of Civil Engineering. VCMTL lab has NABL Accreditation.

RESOURCE PERSON:

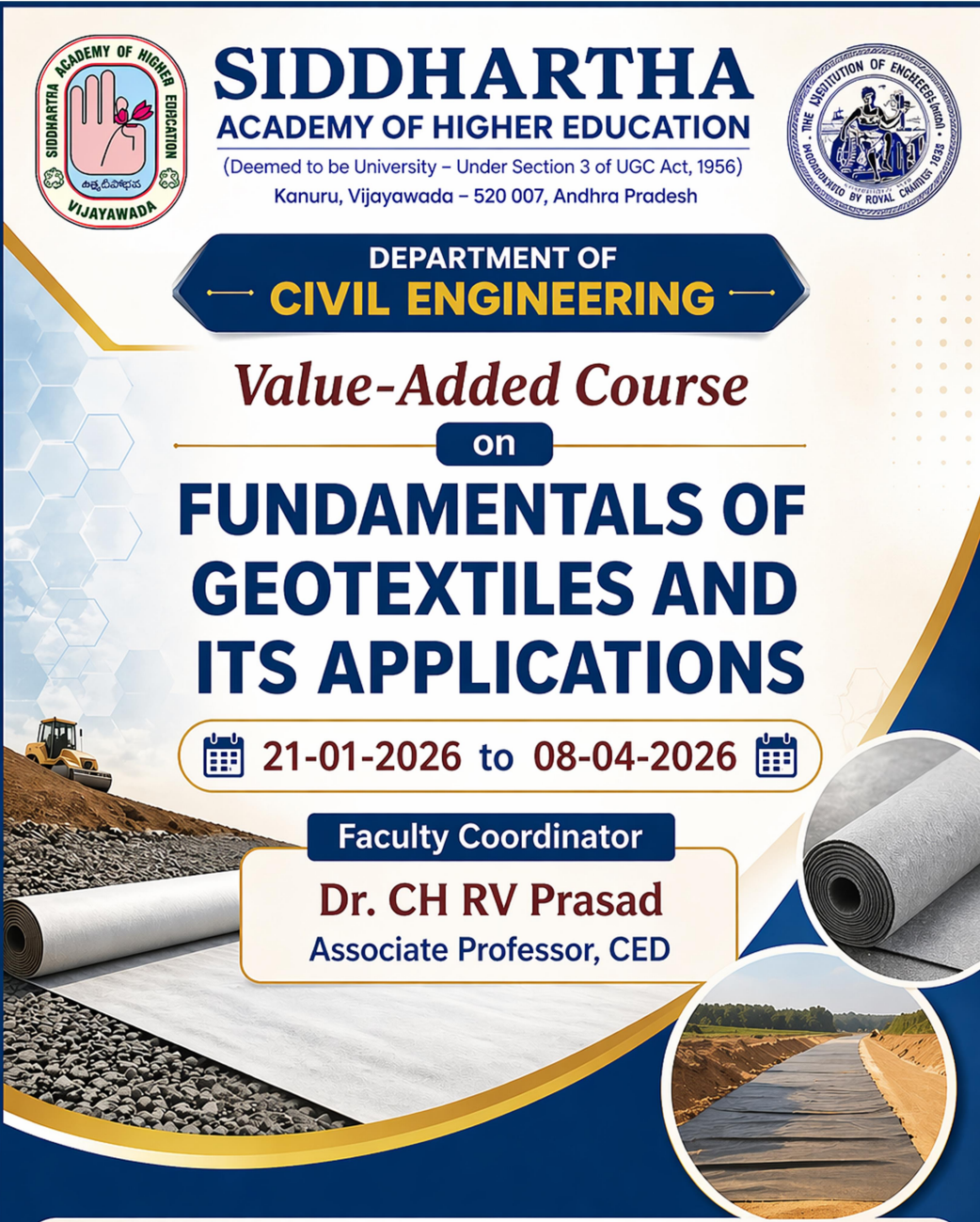


Dr. Rama Vara Prasad Chavali,
Associate Professor,
Department of Civil Engineering,
Phone No: +919441009894.

Schedule

Value-Added Course on Fundamentals of Geotextiles and Their Applications, conducted from 21/01/2026 to 08/04/2026, scheduled from 3:30 PM to 5:00 PM:

Day	Date	Topic Covered	Time
Day 1	21/01/2026	Introduction to geotextiles, history, scope, and physical observation in laboratory	3:30 – 5:00 PM
Day 2	23/01/2026	Types of geotextiles: woven, non-woven, knitted, and laboratory identification	3:30 – 5:00 PM
Day 3	28/01/2026	Manufacturing processes and raw materials used in geotextiles	3:30 – 5:00 PM
Day 4	30/01/2026	Physical, mechanical, and hydraulic properties of geotextiles	3:30 – 5:00 PM
Day 5	04/02/2026	Functions of geotextiles: separation and filtration	3:30 – 5:00 PM
Day 6	06/02/2026	Functions of geotextiles: drainage and reinforcement	3:30 – 5:00 PM
Day 7	11/02/2026	Erosion control and protection applications	3:30 – 5:00 PM
Day 8	13/02/2026	Geotextiles in road construction and pavement systems	3:30 – 5:00 PM
Day 9	18/02/2026	Use of geotextiles in retaining structures and embankments	3:30 – 5:00 PM
Day 10	25/02/2026	Design considerations and selection criteria	3:30 – 5:00 PM
Day 11	27/02/2026	Installation techniques and field practices	3:30 – 5:00 PM
Day 12	04/03/2026	Geotextiles in drainage systems and landfill engineering	3:30 – 5:00 PM
Day 13	06/03/2026	Durability, clogging, and environmental considerations	3:30 – 5:00 PM
Day 14	11/03/2026	Case studies on geotextile applications in infrastructure projects	3:30 – 5:00 PM
Day 15	13/03/2026	Quality control and testing of geotextiles	3:30 – 5:00 PM
Day 16	18/03/2026	Coir geotextiles and approaches to improve durability	3:30 – 5:00 PM
Day 17	20/03/2026	Jute geotextiles and approaches to improve durability	3:30 – 5:00 PM
Day 18	25/03/2026	Emerging trends and sustainable applications of geotextiles	3:30 – 5:00 PM
Day 19	01/04/2026	Review of concepts and discussion session	3:30 – 5:00 PM
Day 20	08/04/2026	Site visit and practical exposure to geotextile applications	3:30 – 5:00 PM



Poster



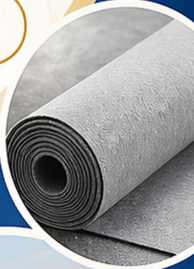

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ACADEMY OF HIGHER EDUCATION
(Deemed to be University – Under Section 3 of UGC Act, 1956)
Kanuru, Vijayawada – 520 007, Andhra Pradesh


DEPARTMENT OF
CIVIL ENGINEERING

Value-Added Course
on
**FUNDAMENTALS OF
GEOTEXTILES AND
ITS APPLICATIONS**

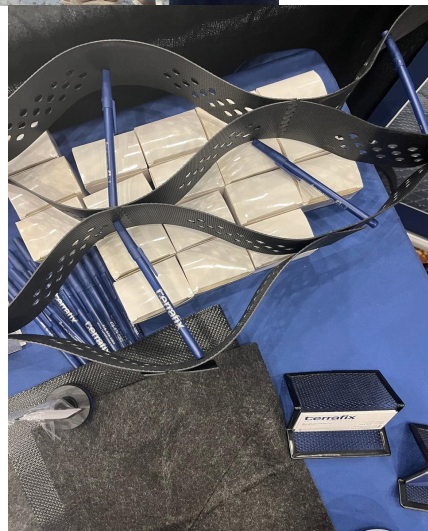
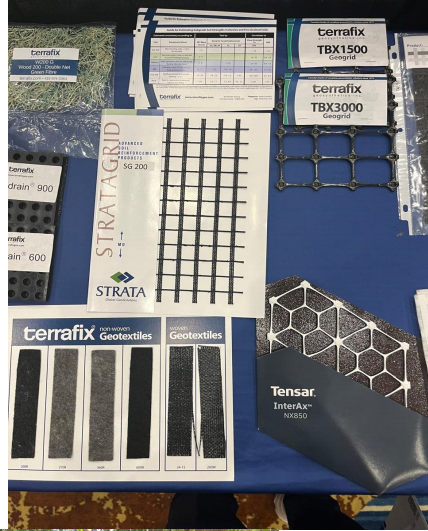
 **21-01-2026 to 08-04-2026** 

Faculty Coordinator
Dr. CH RV Prasad
Associate Professor, CED

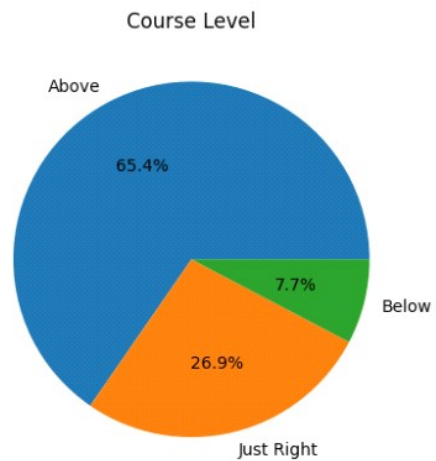
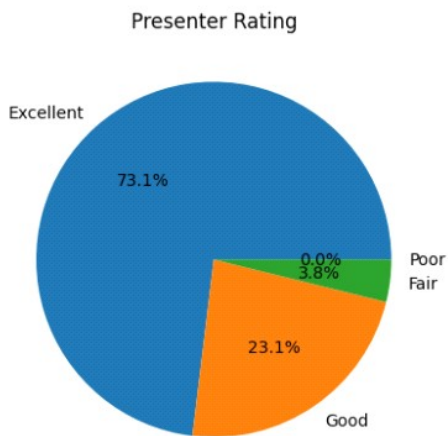
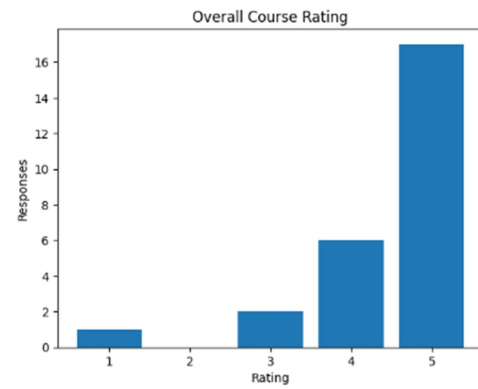
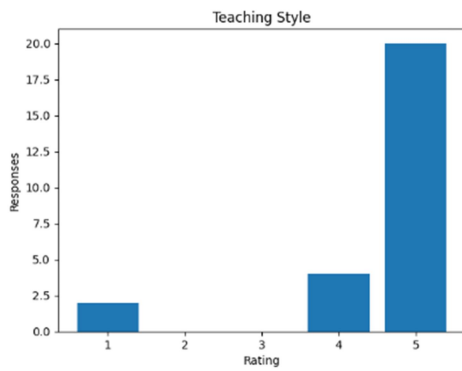
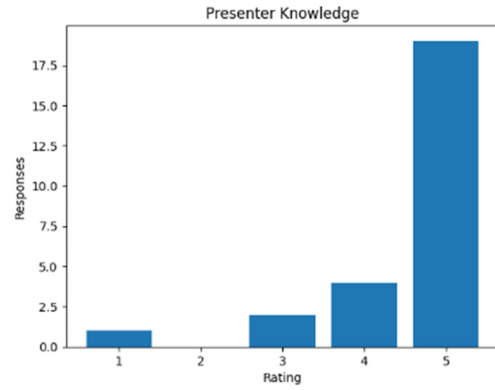
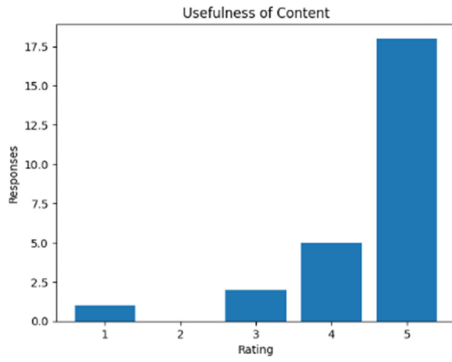


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An Institution **DEEMED TO BE UNIVERSITY**
(Under Section 3 of UGC Act, 1956)
(Sponsored by Siddhartha Academy of General & Technical Education, Vijayawada, A.P.)

Photos



Feedback



Dr. CH RV Prasad
Associate Professor,
CED-VRSEC, Coordinator
IEI-VRSEC-Student-Chapter

Dr. V. Mallikarjuna
HoD CED-VRSEC