



**PERIYAR
MANIAMMAI**

INSTITUTE OF SCIENCE & TECHNOLOGY

(Deemed to be University)

Established Under Sec. 3 of UGC Act, 1956 • NAAC Accredited

think • innovate • transform

FAP FLASH 2023

NOVEMBER'23



DEPARTMENT OF ARCHITECTURE
28 YEARS OF CREATIVE EXCELLENCE

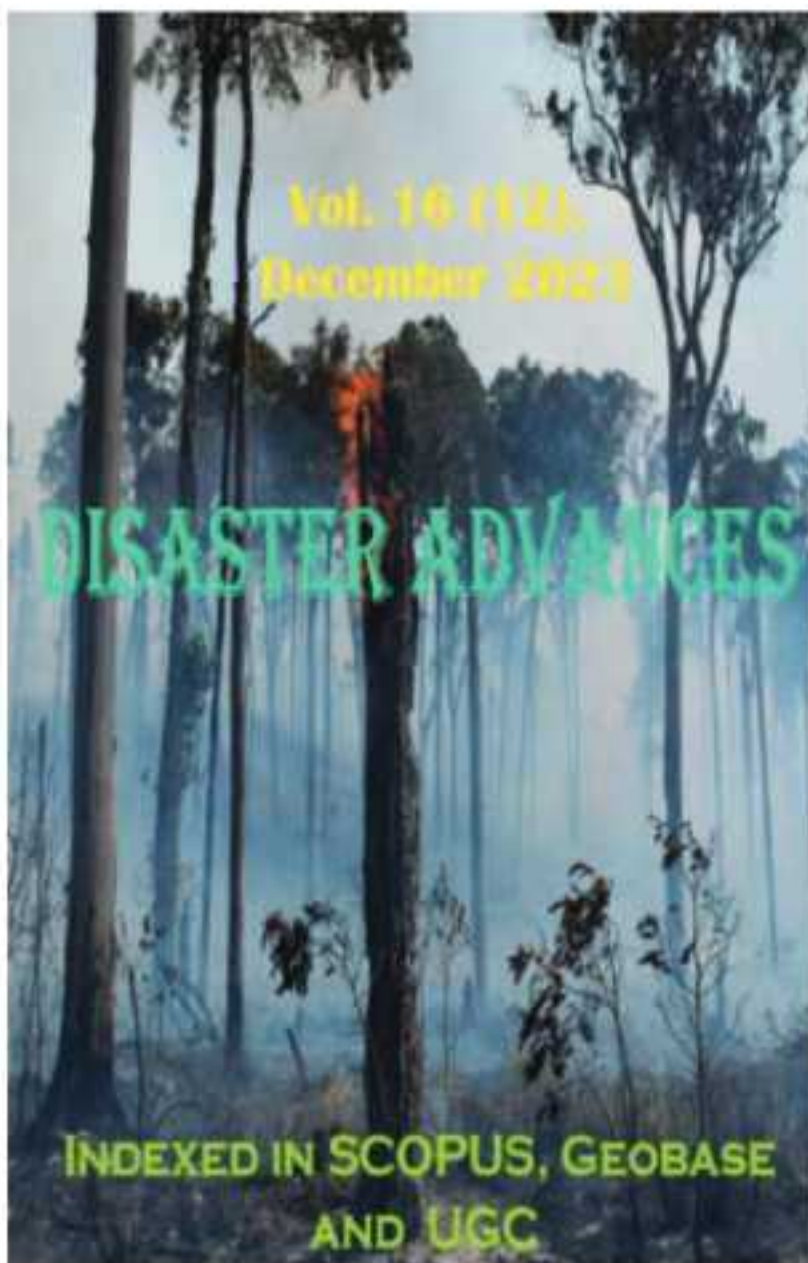
CONTENTS

- PUBLICATION
- CASE STUDY
- FACULTY DEVELOPMENT PROGRAM
- NPTEL ACHIEVERS
- CELEBRATIONS
- EXPERT LECTURE
- VALUE ADDED COURSE
- STUDENTS WORK



PAPER PUBLICATION

Ar.Ramesh Babu Asso.Prof/Arch along with his guide Prof Dr.C.V.Subramanian have submitted a paper titled "An International peer reviewed Journal in Natural Disasters, Manmade Disasters, Earth Sciences, Geo-Sciences and Atmospheric Sciences" and it was accepted and indexed in Scopus journal "Disaster Advances", in the Volume No. 16(12).

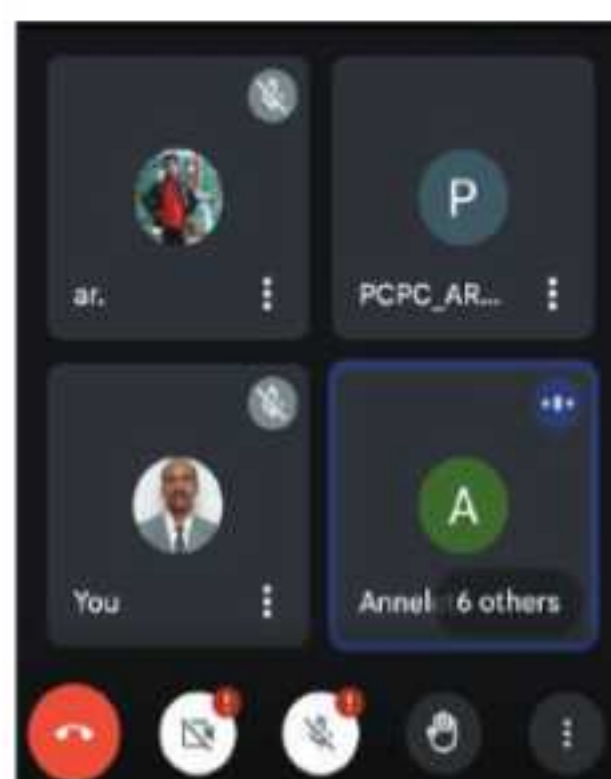


CROSS REFERENCE	
DISASTER ADVANCES	
An International peer reviewed Journal in Natural Disasters, Manmade Disasters, Earth Sciences, Geo-Sciences and Atmospheric Sciences "Disaster Advances", Volume No. 16(12), Pages 1-41, December (2023)	
Editor-in-Chief (Hon.) Dr. Ramesh Babu, Ph.D. CEESA	Correspondence Address: "Disaster Advances" Bharat AGRI, Scheme No. 16, Indira Nagar (M.P.) INDIA Mobile: +91-94230-04128 E-mail: info@disasteradvancesonline.org
Website: http://www.disasteradvancesonline.org	
CONTENTS	
Research Papers:	
1. Predictability of Tropical Cyclone Rapid Intensification based on Statistical Approach -Poo Phang (Dr) Chuan, Theng Yee Yee, Ho Phang Chuan, Nien Quing Phang and Wang Yee Ngiam	1-11
2. Optimizing the accuracy of flood extent mapping using multi-temporal stack of Sentinel-1 SAR data with machine learning approach for Wazirpur Basin, Chandigarh District (India) -Pankaj Prasad N. and Shalini Sanyal V.	12-19
3. Hydrologic Changes in Coastal Geomorphology of Sri Lanka Coast, using Remote Sensing and GIS: An Approach to Climate Change and Coastal Disaster Risk -Saptha J.D., Anurag M.S., Suresh M.K. and Saptha J.D.	20-31
4. Short-term change pattern analysis of Nagapattinam coastal stretch, Tamil Nadu, India using digital elevation analysis system (DEAN) -Perumayyan Sanku, Ganesan Ramesh, Sankar Srinivas, Chokkalingam Lakshminarasimhan and Manojkumar Prabhakaran	32-41
5. Evaluation of optimal multi-sensor satellite data for crop type and land cover identification in Maharashtra, India: a disaster management perspective -Rishi Shankar Singhania, Pooja Singhania, Pooja Singhania and Chiranjeev Singhania	42-54
6. Community based Resilient Floodfighting Strategy: A Case Study of Haryana City -Manoj Kumar	55-61
7. Vulnerability Analysis of Fire Disaster Evacuation of old Thangavoor town, India using Space Syntax Method -Prasanna Kumar Sanku and Subramanian C.V.	62-72
Review Paper:	
8. Disaster emergency management: Case of Kerala -Dr. Suresh Kumar	73-81
♦ EDITORIAL BOARD ♦	

Coordinator:
Dr.C.V.Subramanian Professor/Arch

SYLLABUS EXPERTISE

Dr. C.V. Subramanian, Prof/Arch, was designated as an expert member in the syllabus committee by the Department of Technical Education (DOTE), Tamilnadu. He actively participated in two online meetings, providing valuable expert insights for the development of diploma courses in the state.



Coordinators:

Ar.E.Uma Mouthiga Asst.Prof/Arch

Ar.S.Vithyalakshmi Asst.Prof/Arch

CASE STUDY - AUTOMOBILE SHOWROOM

The Department of Architecture organised a case study visit from 04.11.2023 - 05.11.2023 for 4th year 'A' section architecture students in Bangalore. The students visited various automobile showrooms, including Jeep, Service showroom of Jeep, Nexus, and Mercedes-Benz Sundaram Motors. This field trip aimed to provide practical insights for the students to enhance their understanding of designing automobile showrooms.



CASE STUDY - HERBAL GARDEN

The Department of Architecture organized a visit on 06.11.2023 to the Herbal Garden at PMIST for the second-year students (batch 2022-2027). This initiative is vital to their nursery exploration, enhancing their understanding of plant classification, names, and properties. The visit is specifically aligned with Subject XAR302 - Site Surveying and Planning, offering students a practical insight into botanical knowledge essential for their studies.



Coordinator:

Ar.J.Mullai /Associate.Prof/Arch

Coordinators

Ar.V.S.Kavitha/Associate Prof. & Dean i/c, FAP

Ar.S.Manjari/ Assistant Prof. Arch.

CASE STUDY – HOSPITAL DESIGN

As part of experiential learning and problem-solving, architecture students (batch 2021-26-34 nos.) visited GVN Riverside Hospital in Trichy on 09.11.2023. In addition to the technical requirements required by modern medicine and the rigid functional relationships between different medical departments, the designer must also deal with many more subjective problems, such as patient anxiety, the stressful work environment of the staff and the need to build a sustainable and healing building. Therefore, this newly built multi-hospital was chosen for our case study. This provided an opportunity to understand building scales, spatial planning, zoning of spaces, site response, waste management, water management, fire safety and security measures, etc. Students also contributed to capturing the user



FACULTY DEVELOPMENT PROGRAM

Ar.K.Jasmine Vidhya, Asso. Prof, HOD/FAP, Ar.J.Mullai, Asso. Prof/Arch and Ar.K.Chithra, Asst. Prof/Arch participated in a teacher training program, "Sustainability Synergy: Exploring Green Technology and Materials in Architecture." held from 06.11.2023 - 10.11.2023. The program covered an introduction to sustainable materials and green technologies, encompassing both passive and active green technologies. Through this initiative, faculty members gained valuable insights into the latest advancements in environmentally conscious architectural practices.



FACULTY WORKSHOP ON AUTODESK FUSION 360

Ar.V.S.Kavitha/Associate Prof. & Dean i/c, FAP, Ar.K.Jasmine Vidhya/Associate Prof. & HOD, FAP, Ar.R.Kalavani / Assistant Prof. Arch and Ar.S.Manjari/ Assistant Prof. Arch from the Department of Architecture actively participated in a workshop on Autodesk Fusion 360, focusing on generative design held from 08.11.2023 - 09.11.2023. The workshop provided valuable insights into cutting-edge techniques and tools in architectural design. By engaging with Fusion 360, faculty members enhanced their skills and knowledge, fostering a dynamic and innovative approach to architectural education.



Organizer:
Department of Mechanical Engineering, PMIST

NOVEMBER 2023

5

Organizer: Scrollwell

FACULTY DEVELOPMENT PROGRAM

Faculty members Ar. N. Ramesh Babu, Asso.Prof/Arch, Ar. K. Chithra, Asst.Prof/Arch, and Ar. S. Manjari, Asst.-Prof/Arch actively participated in a 7-day Online Faculty Development Program (FDP) on Innovative Teaching Strategies and Tools in the Digital Age, held from November 20 to November 26, 2023.



ICT ACADEMY FACULTY DEVELOPMENT PROGRAMME

Ar. Vithyalakshmi participated in a two day Design Thinking Faculty Development Program (FDP) held from November 20 to November 21, 2023. The event drew over 30 participants from various colleges, providing a collaborative platform for learning and exchanging ideas in the field of design thinking.



Organizer:
Gnanam School of Business, Thanjavur

NOVEMBER 2023

6

FACULTY DEVELOPMENT PROGRAM

Ar. V. S Kavitha, Asso.Prof/Arch, Dean i/c FAP, actively participated in the 5-day Technical Faculty Development Program at Karpaga Vinayaga College of Engineering and Technology. The program, centered on Microsoft Power BI Data Analyst Associate, took place from November 28th to December 2nd, 2023, offering valuable insights and skills crucial to the field of data analytics.



APTIS TEST

Ar.J. Mullai Asso.Prof/Arch cleared the British Council Aptis test at the B1 level, showcasing proficiency in English language skills.



Coordinator:
Dr. K. Selvam, Associate Professor

NPTEL FACULTY ACHIEVERS

Ar.S.Banazir Banu, Asst.Prof/Arch, Ar.J.Mullai Asso.Prof/Arch, Ar.V.S Kavitha, Asso.Prof, Dean i/c, Ar.R.Kalavani, Asst.Prof and Ar.S.Vithyalakshmi from the Department of Architecture have successfully completed the NPTEL August, September and October courses in "Role of Craft and Technology in Interior Architecture, Visual Communication Design for Digital Media", "International Studies in Vernacular Architecture" and "Sustainable Architecture".

Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
KAVITHA VS
for successfully completing the course

International Studies in Vernacular Architecture

with a consolidated score of **92 %**

Online Assignments	23.33/25	Proctored Exam	69/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **66**

Prof. Kavitha Sheela,
Professor (Chemistry),
Coordinator (IC)

Aug-Sep 2023
(4 week course)

Prof. Rajana Pattanaik,
Professor (BSE),
Coordinator (NPTEL)

Indian Institute of Technology Roorkie

swayam

Ref No: NPTEL23AR135547600732 To verify the certificate

No. of credits recommended: 1 or 2

Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
MULLAI J
for successfully completing the course

Role of Craft and Technology in Interior - Architecture

with a consolidated score of **60 %**

Online Assignments	15.64/25	Proctored Exam	50.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **309**

Prof. Kavitha Sheela,
Professor (Chemistry),
Coordinator (IC)

Jul-Sep 2023
(8 week course)

Prof. Rajana Pattanaik,
Professor (BSE),
Coordinator (NPTEL)

Indian Institute of Technology Roorkie

swayam

Ref No: NPTEL23AR17638576000 To verify the certificate

No. of credits recommended: 2 or 3

Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
BANAZIR BANU S
for successfully completing the course

Visual Communication Design for Digital Media

with a consolidated score of **47 %**

Online Assignments	15/25	Proctored Exam	31.5/75
--------------------	-------	----------------	---------

Total number of candidates certified in this course: **88**

Prof. Kavitha Sheela,
Professor (Chemistry),
Coordinator (IC)

Jul-Aug 2023
(4 week course)

Prof. Rajana Pattanaik,
Professor (BSE),
Coordinator (NPTEL)

Indian Institute of Technology Roorkie

swayam

Ref No: NPTEL23AR102544007000 To verify the certificate

No. of credits recommended: 1 or 2

Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
KALAVANI RAJENDRAN
for successfully completing the course

Sustainable Architecture

with a consolidated score of **73 %**

Online Assignments	23.13/25	Proctored Exam	50.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **377**

Prof. Kavitha Sheela,
Professor (Chemistry),
Coordinator (IC)

Jul-Oct 2023
(12 week course)

Prof. Rajana Pattanaik,
Professor (BSE),
Coordinator (NPTEL)

Indian Institute of Technology Roorkie

swayam

Ref No: NPTEL23AR102544007000 To verify the certificate

No. of credits recommended: 2 or 4

Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
VITHYA LAKSHMI S
for successfully completing the course

Sustainable Architecture

with a consolidated score of **62 %**

Online Assignments	32.19/25	Proctored Exam	40/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **377**

Prof. Kavitha Sheela,
Professor (Chemistry),
Coordinator (IC)

Jul-Oct 2023
(12 week course)

Prof. Rajana Pattanaik,
Professor (BSE),
Coordinator (NPTEL)

Indian Institute of Technology Roorkie

swayam

Ref No: NPTEL23AR102544007000 To verify the certificate

No. of credits recommended: 2 or 4

NPTEL STUDENT ACHIEVERS

The students of Department of Architecture have successfully completed the NPTEL September and October courses.

Students - B.Arch

II Year

1.Ms.Sahana

2.Ms.J S Zaithoon Sahani

3.Ms. Sherin Nachiya B

4.Mr.JoePrince.L

5.Mr.Thileeban

6.Mr.Sriram.S

III Year

1. Ms.M Aarthi

2. Ms.Shama Anjum

Students - M.Arch

II Year

1. Ms.L.S.Sindhubarathi

2. Ms. N Nivedha



NOVEMBER 2023

Coordinators:

Ar.V.S.Kavitha, Associate Prof. & Dean ic, FAP

Ar. S. Sreebavithra, Assistant Professor, Arch.

WORLD TOWN PLANNER'S DAY CELEBRATION

The Faculty of Architecture and Planning celebrated World Town Planners Day / World Urbanism Day (November 8) on 17.11.2023 at 11:00 am as part of the Institution Innovation Council. On this occasion, short lectures on the challenges of city planning in India were delivered by Ar.N.Ramesh Babu, Associate Professor/Arch & Town Planner, and Ar.V.S.Kavitha, Associate Professor/Dean ic FAP & Urban Planner. It was followed by student recognition for participating in and winning numerous intra and intercollegiate events. The film "Didi Contractor - Marrying the Earth to the Building", a lyrical documentary approach to an ageing artist and architect, was shown as a highlight of the event. This film focuses on the environment, buildings, and people of North India.



Coordinators:

Ar.K.Chithra, Asst.Prof/Arch

Ar.J.Mullai, Asso.Prof/Arch

WORLD HERITAGE WEEK CELEBRATION

As a part of the World Heritage Week at Thanjavur, the Department of Architecture organized a Heritage visit to the Museum at Old Collectorate, Thanjavur on 22.11.2023. The first-year students of Architecture - 39 no's (batch 2023-28) experienced the traditional cultural knowledge and participated in an oratorical competition and Heritage walk. They also enjoyed a Veena music show.



GUEST LECTURE

Prof. Dr Ashok Kumar, from the Biotech Department, delivered a guest lecture on fire safety for second-year students (batch 2021-2026) for the course building services - III on 08.11.2023. During the session, he provided practical demonstrations on the proper usage of fire safety equipment, enhancing the student's understanding of crucial safety measures. The lecture aimed to equip students with essential knowledge and skills related to fire prevention and response.



EXPERT LECTURE SERIES

Er. S. Rajendran, with over 49 years of construction experience, delivered an expert lecture organized by the Department of Architecture on 29.11.2023. After graduating with a B.E. in Civil Engineering and holding a PG Diploma in Valuation, he shared insights from his diverse career, ranging from roles like Site Engineer at Kalpakkam Atomic Power Project to his current position as a Civil Engineering Consultant. Rajendran, also a visiting faculty at various institutions, highlighted his expertise in cost-effective engineering and his association with prestigious committees.

DEPARTMENT OF ARCHITECTURE
38 YEARS OF CREATIVE EXCELLENCE (1985-2023)

EXPERT LECTURE SERIES

ELSA# 2023

COST EFFECTIVE CONSTRUCTION

Dr. S. RAJENDRAN

Dr. S. RAJENDRAN has an experience of more than 49 years in the field of construction, graduated B.E. (Civil) from REC, Trichy (1973) and PG Diploma in Valuation (1984). His professional experience extends from Site Engineer of Kalpakkam Atomic power project, Assistant Engineer in Tamil Nadu Highways Department to Civil Engineering Consultant, Valuer, Specialist in Cost-Effective Technology and Waste Engineering. He is also associated with various institutions as visiting faculty including PRIST. He is an active member of HERITAGE SCREENING COMMITTEE, Hindu Religious and Charitable Endowments, Government of Tamil Nadu. He has received numerous prestigious awards such as Manonmanjun Rajagopal award from Government of Tamil Nadu, award of excellence in Cost-effective Engineering received from the Governor, Life time service professional excellence award and award for Exemplary Performance in CONSULTING ENGINEER.

DATE: 29/11/2023
Tuesday

TIME: 10:00 AM-12:30 PM

VENUE: ARCH204
Sa Carubhar Hall

COORDINATOR	DEPARTMENT	LECTURER INFORMATION	STUDENT INFORMATION
Ar. K. CHITHRA	Ar. K. CHITHRA	Ar. K. CHITHRA	Ar. K. CHITHRA
Head of Department	Head of Department	Head of Department	Head of Department



Coordinator:
Ar.K.Chithra/ Assistant Prof. Arch

VALUE ADDED COURSE

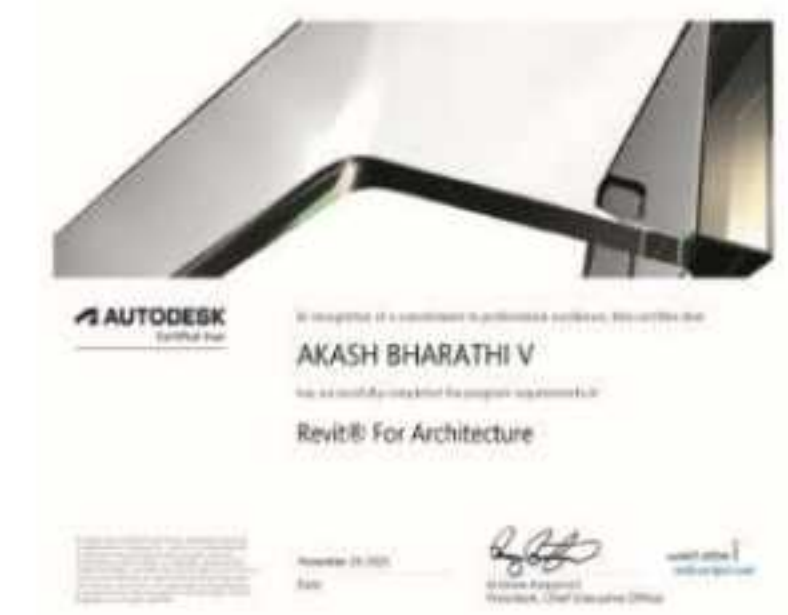
The third-year 'A' section (Batch 2021-2026) students participated in the Autodesk Revit exam on November 23, 2023, as a continuation of the value added course they undertook during the previous month.



Coordinators:

Ar.V.S.Kavitha/Associate Prof. &Dean i/c,FAP
Ar.S.Manjari/ Assistant Prof./Arch

The second-year 'A' (Batch 2022-2027) students participated in the Autodesk Revit exam on November 24, 2023, as a continuation of the value added course they undertook during the previous month.



Coordinators:

Ar.K.Jasmine Vidhya, Associate.Prof & HOD,FAP
Ar.R.Kalaivani,Assistant.Prof/Arch

STUDENTS WORK

In their design course, first-year architecture students applied their design expertise to conceptualize pavilion and spaceframe structures for the entrance and courtyard of the architecture block. This project not only offered a hands-on experience but also functioned as a practical exploration. The students demonstrated their design proficiency through the successful creation of these structures.

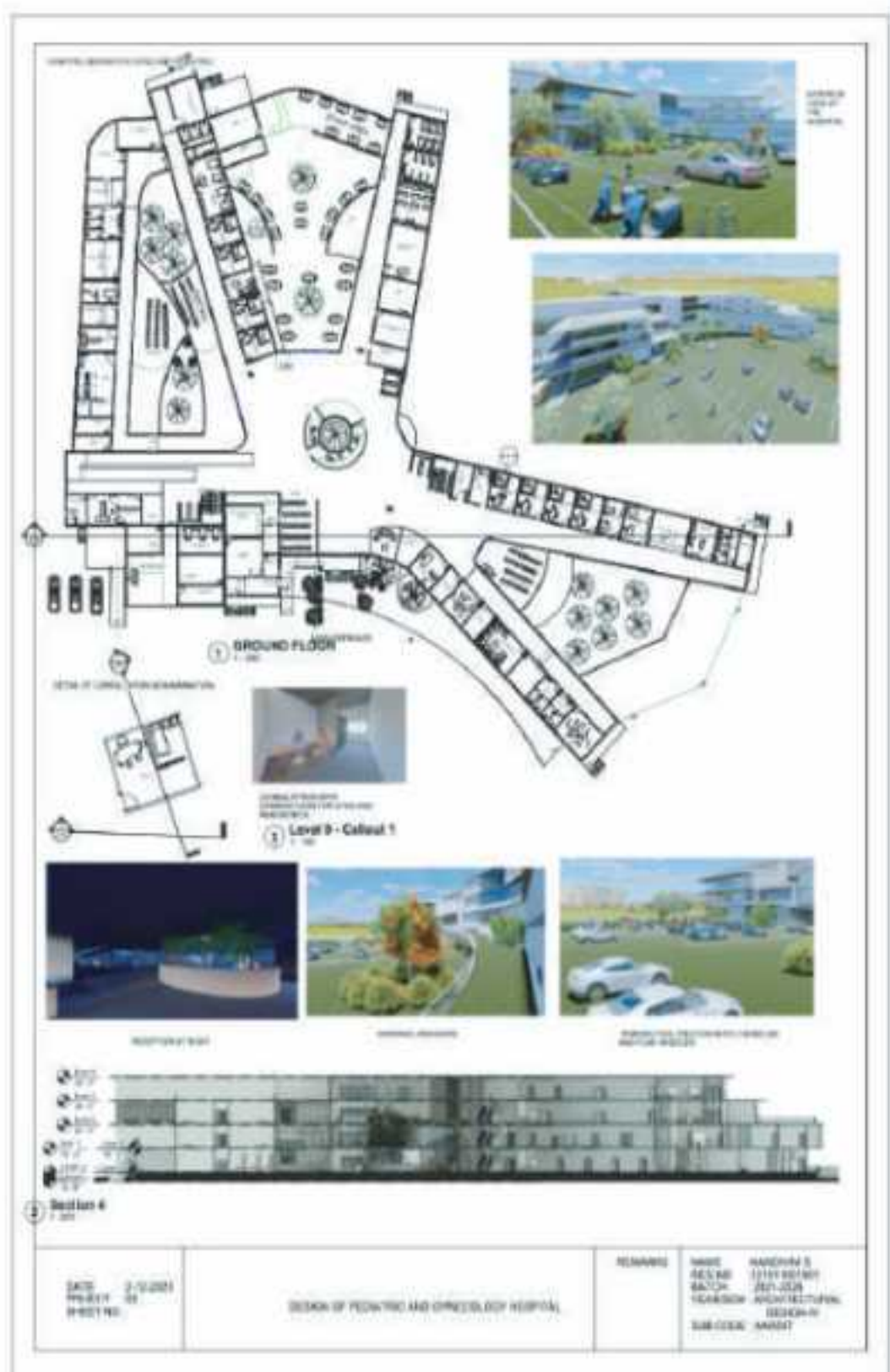


Course - XAR107 - Basic Design

Faculty i/c - Ar.J.Mullai, Asso.Prof/Arch, Ar.S.Banazir Banu, Asst.Prof/Arch

STUDENTS WORK


Third year 'A' section students have designed a hospital for gynecology and pediatrics as a part of their XAR507 - Architectural Design - IV course. The below images highlight the exceptional work of student S. Nandhini, showcasing her innovative design that places emphasis on both functionality and aesthetic excellence in healthcare architecture.



STUDENTS WORK

Fourth-year 'A' students of Department of Architecture, crafted models focusing on thermal insulation, sound insulation, and flooring through hands-on applications, the students applied theoretical knowledge to create effective solutions, showcasing their advanced understanding of materials and construction principles.





FAP FLASH CREW

DEAN FAP

Ar.V.S.KAVITHA

HEAD OF THE DEPARTMENT

Ar.K.JASMINE VIDHYA

FACULTY COORDINATOR

Ar.S.MANJARI

