



NATIONAL ENGINEERING COLLEGE
(An Autonomous Institution – Affiliated to Anna University Chennai)
K.R. NAGAR, KOVILPATTI – 628 503

SUSTAINABLE DEVELOPMENT GOALS – 11

SUSTAINABLE CITIES AND COMMUNITIES





NATIONAL ENGINEERING COLLEGE
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K.R. NAGAR, KOVILPATTI – 628 503

11.1 Public Access to Buildings & Natural Heritage

National Engineering College (Autonomous), Kovilpatti, is committed to promoting knowledge sharing and community engagement by providing controlled public access to its academic infrastructure and research facilities. The institution regularly opens its campus to school students, prospective students, parents, alumni, industry professionals, government officials, and members of the local community through various academic, technical, and outreach programmes. The college organizes open-house events, technical exhibitions, project expos, innovation programmes, workshops, career guidance sessions, and awareness programmes, enabling visitors to experience the institution's state-of-the-art laboratories, smart classrooms, research centres, library, and innovation facilities. These initiatives encourage young learners to explore engineering education, scientific innovation, and sustainable technologies while fostering collaboration between academia and society. In addition, National Engineering College hosts conferences, faculty development programmes, industrial interaction events, and community outreach activities that welcome participants from educational institutions, industries, government organizations, and the general public. Through these initiatives, the institution strengthens knowledge dissemination, promotes innovation, and contributes to building an informed and sustainable society.



Academic Infrastructure Promoting Quality Education and Sustainability



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Student Participation in Academic Outreach Programme

11.2 Public Access to Library Facilities

National Engineering College (Autonomous), Kovilpatti, promotes lifelong learning by providing access to its Central Library for students, faculty members, research scholars, alumni, and authorized external users. The library serves as a valuable knowledge resource for the academic community as well as visitors seeking educational and technical information. The Central Library houses an extensive collection of books, journals, magazines, newspapers, e-books, e-journals, project reports, theses, and digital learning resources covering Engineering, Science, Technology, Management, Humanities, and allied disciplines. The library also provides access to online databases, digital repositories, and reference services to support teaching, learning, research, and innovation. Members of the public, including school students, alumni, researchers, industry professionals, and visitors, are permitted to access the library facilities in accordance with the institution's library policies and visitor regulations. During academic events, technical programmes, workshops, conferences, and outreach activities, participants are encouraged to utilize the library resources for knowledge enhancement and academic enrichment. By extending access to quality learning resources beyond its student community, National Engineering College



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supports lifelong learning, knowledge dissemination, and community development, thereby contributing to Sustainable Development Goal 11.



Central Library Supporting Academic Learning



Students Accessing the Central Library





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National Engineering College, K.R.Nagar, Kovilpatti – 628 503.

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Central Library Readers Park - Circular

08.07.2026

The Central Library Readers Park, in collaboration with the NDLI Club, is delighted to announce a series of engaging events, including a **Students' Insights Lecture, Book Locker Session and Competition.**

Date: 11 July 2026 (Saturday) Time: 02.00 p.m. Venue: Central Library

We warmly invite all members of the Central Library Readers Park and interested students to participate in these exciting and interactive activities.

Event 01: Students' Insights Lecture:

Topic : **Reading in the Digital Age: Why It Still Matters**
Speakers : **Ms.M.Pavithra, II – AIDS**
 Ms.M.Harini, II – AIDS

Event 02: Book Locker Session:

Book Title : **Wings of Fire: An Autobiography**
Author : **A.P.J.Abdul Kalam & Arun Tiwari**
Speaker : **Ms.R.Shanmuga Priya, II - AIDS**

Event 03: Non-Technical Competition:

Competition : **Book Hunt: From Book to Screen**
Coordinators : **Ms.B.Muthu Sankari, II – AIDS**
 Ms.V.B.Harinee, II – AIDS
 Ms.S.Mageerthana, II – AIDS

All Readers Park Members and interested students are encouraged to attend and actively participate in these informative and engaging events.

K. K. Muthu
8/7/2026
Coordinator

Principal
Principal
8/7/26



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Central Library – Circular

13.05.2026

A Book Exhibition is being conducted at the Central Library from 14 to 16 May 2026. All HODs and Faculty Members are requested to visit the exhibition and review, recommend and select books to be purchased for the Central Library.


Principal / 45


13/5/2026

Copy submitted to the Director

Copy to:

All Deans, HODs & Faculty Members

File

11.4 Public Access to Open Spaces

National Engineering College (Autonomous), Kovilpatti, maintains a green and eco-friendly campus with open spaces that promote recreation, physical well-being, community engagement, and environmental sustainability. The campus includes landscaped gardens, tree-lined walkways, sports grounds, and open recreational areas that are utilized for academic, cultural, sports, and community activities. The institution permits the use of selected open spaces and sports facilities by participants of intercollegiate competitions, school students, alumni, government organizations, and community groups during approved events. The campus also serves as a venue for sports tournaments, awareness programmes, NSS activities, yoga sessions, environmental campaigns, tree plantation drives, and community outreach initiatives. These open spaces foster healthy lifestyles, encourage social interaction, and strengthen the institution's engagement with the surrounding community while supporting the objectives of Sustainable Development Goal 11.



NATIONAL ENGINEERING COLLEGE
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Students Honoured for Excellence in Sports



NSS Initiative Supporting Community Well-being



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Lakshmi Ammal Memorial 15th All India Hockey Tournament



21.05.2026
— onwards —



 **Astroturf Hockey Stadium**

Organized by

**LAKSHMI AMMAL SPORTS ACADEMY &
K.R. CONSORTIUM AND INSTITUTIONS,**

K.R.Nagar, Kovilpatti - 628 503.



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CIRCULAR

Date: 21.07.2026

The National Service Scheme (NSS) Units of National Engineering College, Kovilpatti, are updating a Blood Donor Database to facilitate timely assistance during medical emergencies, blood donation drives, and other situations requiring immediate blood support, students those who are willing to become a blood donor, kindly fill out this form with accurate and up-to date information. The details provided will be kept strictly confidential and will be used solely for blood donation-related purposes by the NSS Units.

General Eligibility Guidelines:

- Age: 18 and above years
- Weight: not less than 45 kg
- Must be in good health and medically fit at the time of donation

Your voluntary participation can make a significant difference and help save precious lives. If you are interested in becoming a blood donor, kindly register using the link provided below:

<https://forms.gle/JzKDCxJT8TghUnfN8>

K. P. Suresh
Secretary
(GAYATHRI G)

K. Latha
NSS Programme Officer
(Dr. K. Latha, AP(SG)/S.S.H)

L. Suresh
Principal
21/7.
PRINCIPAL
NATIONAL ENGINEERING COLLEGE
K.R. NAGAR, KOVILPATTI - 628 503.
THOOTHUKUDI - DIST.



NATIONAL ENGINEERING COLLEGE
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	NATIONAL ENGINEERING COLLEGE (An Autonomous Institution Affiliated to Anna University ,Chennai) K.R. Nagar, Kovilpatti-628503 NATIONAL SERVICE SCHEME	
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CIRCULAR

Date : 09.07.2026

In observance of Energy Independence Day, the National Service Scheme (NSS) Unit of National Engineering College is organizing "OFF THE GRID", an **Ideathon** on the theme "**Energy Independence in Rural Areas**". The event aims to encourage students to present practical, innovative and cost-effective solutions for achieving energy independence.

Topics :

1. Energy-Efficient Rural Housing & Buildings
2. Affordable Smart Irrigation Powered by Renewable Energy

Presentation Format (Choose Any One):

- 5-Slide PowerPoint Presentation
- Chart or Poster Board
- Printed Digital Poster
- Prototype Model

Each team should clearly present the problem, the proposed solution and the estimated low-cost budget for implementation.

Date: 11.07.2026 (Saturday)

Time: 2:00 PM – 4:00 PM

Venue: Seminar Hall, Department of ECE

Team Size: 2 Members

All interested students are invited to take part in this programme. Participants are requested to register by filling out the form provided below.

<https://forms.gle/36eJoAc41bdFGSMK8>


Secretary
[GAYATHRI G.]


NSS Programme Officer
[D.C. BALAMURUGAN]


Principal
9/7.



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	National Engineering College (An Autonomous Institution Affiliated to Anna University Chennai) K.R.Nagar, Kovilpatti-628503 National Service Scheme	
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CIRCULAR

Date: 02/07/2026

The NSS Units of NEC have planned to conduct an awareness programme on the theme "Say No to Drugs – Choose Life" on 4th July 2026 (Saturday) from 3:30 PM to 5:15 PM at the ECE Seminar Hall. The programme aims to create awareness among students about the harmful effects of drug abuse and encourage them to make healthy and responsible life choices. All interested students are encouraged to participate in the programme and spread awareness about leading a healthy, drug-free life.

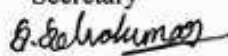
Details of the events are as follows:

List of events:

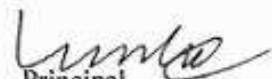
1. Drawing Competition - Drugs Kill Talent and Potential
2. Essay Writing Competition - Addiction vs Ambition – Choosing the Right Path
3. Slogan Writing Competition - The More You Use, The Less You Live.

Interested Students are requested to register using the Google Form through the link below:

<https://forms.gle/cXiCNCDnGk9ybB9y6>


Secretary



NSS Programme Officer
02/07/2026


Principal
2/7



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11.5 Arts and Heritage Contribution

National Engineering College (Autonomous), Kovilpatti supports arts and heritage through various initiatives to promote cultural awareness, preserve traditional values, and encourage artistic expression among students. These contributions include:

1. **Cultural Festivals and Events:** The institution organizes annual cultural festivals, college day celebrations, and traditional events where students showcase their talents in music, dance, drama, mime, folk arts, and literary activities, fostering a vibrant cultural environment.
2. **Student Clubs and Associations:** National Engineering College encourages students to participate in Fine Arts Club, Literary Club, Tamil Mandram, Music and Dance Clubs, and other student associations that promote regional traditions, cultural heritage, creative arts, and literary excellence.
3. **Celebration of Traditional Festivals:** The institution celebrates festivals such as **Pongal, Independence Day, Republic Day**, and other national and regional occasions through traditional cultural programmes, folk performances, Rangoli (Kolam) competitions, traditional attire events, and cultural exhibitions, preserving India's rich heritage.
4. **Intercollegiate Cultural Participation:** Students actively participate in intercollegiate, university-level, and state-level cultural competitions, representing the institution in various artistic and cultural events while promoting teamwork, creativity, and cultural exchange.
5. **Infrastructure for Arts and Cultural Activities:** The campus provides auditoriums, seminar halls, open-air venues, and other facilities for conducting cultural programmes, rehearsals, competitions, exhibitions, and performances, enabling students to develop their artistic talents alongside their technical education.



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*Solicit your presence for the
celebration of*

42nd ANNUAL DAY CELEBRATIONS

to be held at 04.30 p.m. on 11th April 2026 (Saturday)
at NEC Auditorium

Tmt. CHENNAMMAL RAMASAMY

Chairman, K.R.Educational Institutions

will preside over the function

Thiru. P.MUNIYANDI

Distinguished Alumnus (Mechanical Engineering - Class of 1990)
Joint Controller, Quality Assurance, Directorate General of Quality Assurance,
Ministry of Defence, Government of India.
Heavy Vehicles Factory, Avadi, Chennai.

*has kindly consented to be the
Chief Guest and deliver the Annual Day Address*

Thiru. K.R.KRISHNAMOORTHY

Vice Chairman, K.R.Educational Institutions

will distribute the prizes

in the August presence of

Thiru. K.R.ARUNACHALAM

Correspondent, K.R.Educational Institutions



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42nd Annual Day Promoting Holistic Student Development



Tamil Heritage Awareness Event



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11.6 Intangible Cultural Heritage

National Engineering College (Autonomous), Kovilpatti promotes India's intangible cultural heritage by preserving traditional values, customs, languages, and cultural practices through various institutional activities. These initiatives include:

1. **Traditional Festival Celebrations:** The institution celebrates festivals such as Pongal, Onam, and other cultural occasions, promoting traditional customs and regional heritage.
2. **Cultural Competitions:** Students actively participate in folk dance, music, drama, traditional art, and literary competitions that preserve indigenous cultural practices.
3. **Language and Literature Promotion:** Through literary associations and student clubs, the college encourages the appreciation of Tamil language, literature, poetry, and cultural traditions.
4. **Awareness Programmes:** Guest lectures, cultural events, and heritage-based activities are organized to create awareness of India's rich cultural diversity among students.
5. **Student Participation:** Students are encouraged to actively participate in cultural programmes that strengthen respect for traditional knowledge and community values.



Students Showcasing Artistic and Cultural Talents



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NEC FINE ARTS CLUB



13.07.2026

In the view of 4th year celebration of Kovilpatti's Kamban Kalagam, Kovilpatti, they are conducting the Elocution competition and Music competition on 26.7.2026 at Punitha Ohm Global CBSE School, Kechilapuram, Kovilpatti. The interested students are requested to register through the following link below on or before 20.7.2026, 5.00 p.m.

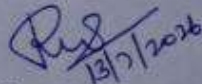
Registration Link: <https://forms.gle/ujqV1NPYyVnmbaw98>

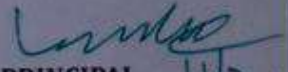
The cash prize will be given to the students those who are winning in this competition as given below:

- 1st Prize- Rs.1000
- 2nd Prize- Rs.750
- 3rd Prize- Rs 500

The interested students are asked to register in the link and expose your talents in the competition and win the prizes.

A. Shalvin Felvia
Student President


13/7/2026
Convenor

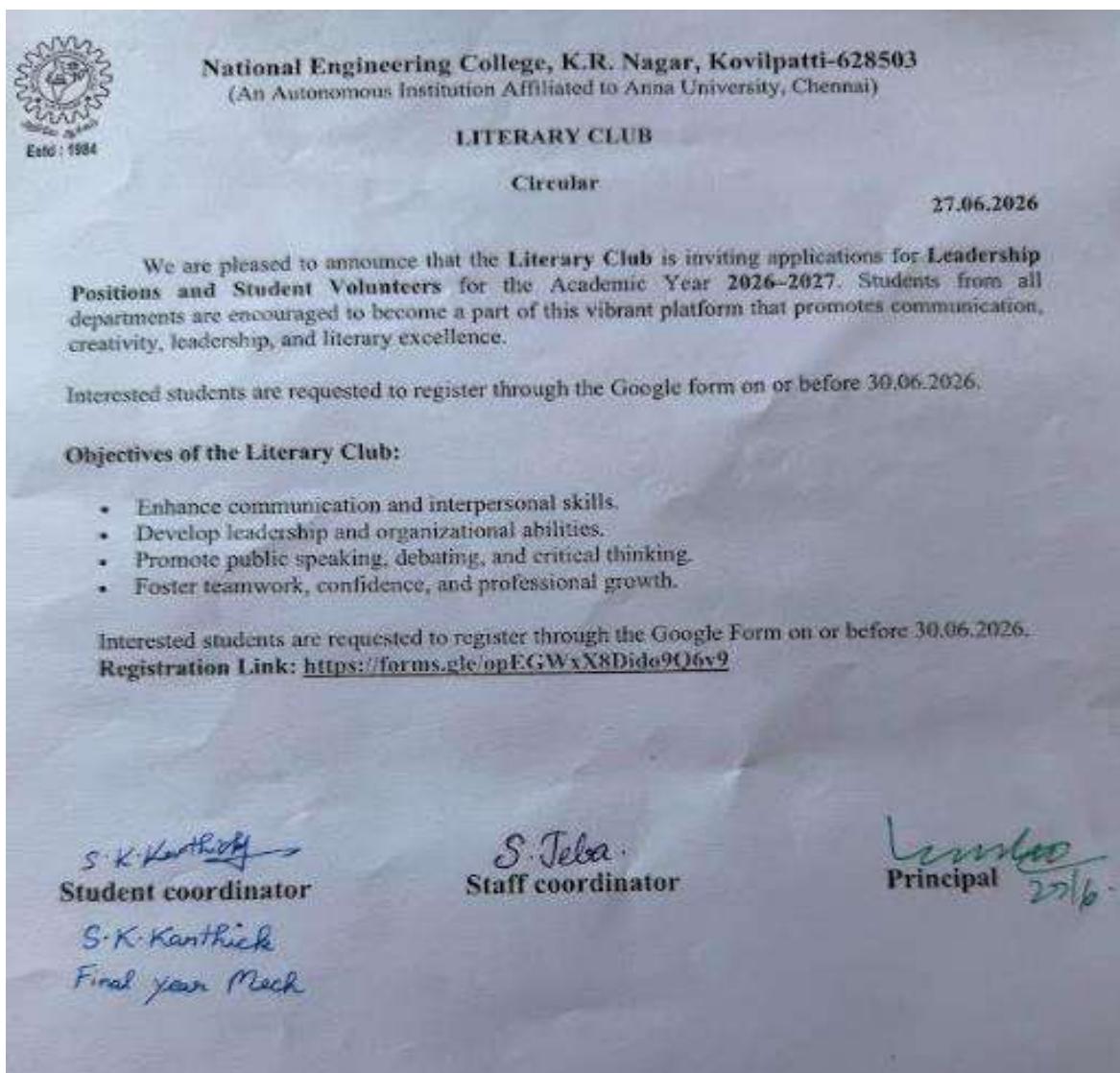

PRINCIPAL 13/7

Copy To:

1. All HODs(Mechanical, ECE, CSE, EEE, IT, CIVIL and AI&DS)
2. File



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11.7 Physical Activity Training

National Engineering College (Autonomous), Kovilpatti encourages physical fitness and healthy lifestyles by providing various sports and fitness facilities for students, faculty, and staff. These initiatives include:

1. **Sports Training:** Coaching is provided in athletics, cricket, football, volleyball, basketball, badminton, and indoor games.
2. **Fitness Facilities:** The institution provides gymnasium and fitness facilities to promote regular physical exercise.



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3. **Yoga and Wellness:** Yoga programmes, International Yoga Day celebrations, and wellness activities are organized to improve physical and mental health.
4. **Intercollegiate Participation:** Students are encouraged to participate in university, state, and national-level sports competitions.
5. **Sports Events:** Annual sports meets and tournaments promote teamwork, leadership, and physical fitness.



Award Presentation for Sports Excellence



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Lakshmi Ammal Memorial 15th All India Hockey Tournament
30.05.2026 (SATURDAY)
★ *Congratulations* ★
1st Prize - ₹ 2,00,000/-
with Lakshmi Ammal Memorial Trophy
LAKSHMI AMMAL MEMORIAL 15th ALL INDIA HOCKEY TOURNAMENT
CHAMPIONS - 2026
INDIAN NAVY, MUMBAI
Astroturf Hockey Stadium, Kovilpatti
Organized by
LAKSHMI AMMAL SPORTS ACADEMY & K.R. CONSORTIUM AND INSTITUTIONS
K.R.Nagar, Kovilpatti - 628 503.

11.8 Transportation Schemes

National Engineering College (Autonomous), Kovilpatti provides safe and convenient transportation facilities for students and staff through an organized transport system. These initiatives include:

1. **College Bus Services:** The institution operates buses connecting various towns and villages to ensure safe and reliable transportation.
2. **Accessible Transport:** Transportation facilities improve access to higher education for students from rural and nearby regions.
3. **Safety Measures:** All vehicles are maintained regularly and operated following road safety regulations.



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4. **Reduced Traffic Congestion:** The organized transport system minimizes the use of private vehicles and contributes to reducing traffic congestion and emissions.
5. **Community Connectivity:** The transport network supports students, faculty, and staff from surrounding districts.



Campus Bus Transport Services



Well-Maintained Bus Transportation for Students and Staff



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11.9 Remote Working Policy

National Engineering College (Autonomous), Kovilpatti promotes digital learning and flexible academic practices through online platforms and ICT-enabled facilities whenever required. The institution supports remote access through:

1. **Learning Management Systems** for sharing course materials and assignments.
2. **Online Classes** using digital platforms during emergencies and special situations.
3. **Virtual Meetings** for academic, administrative, and research activities.
4. **Digital Resources** including e-books, e-journals, NPTEL, MOOCs, and online databases.
5. **ICT Infrastructure** supporting blended learning and remote academic engagement.

E – Resources

S.No	Collections	Volumes	Qty
1	E – Journals	1.IEEE (ASPP)	208
		2.Science Direct (Elsevier)	350
2	E-Books	EBSCO Engineering Core e-Books	7642



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Library Collections (Department Wise)

S.No	Department	Titles	Volumes	International (Online) Journals
1	E.C.E.	5307	11217	95
2	MECHANICAL	5734	12107	104
3	C.S.E.	8227	15233	69
4	I.T.	3722	6795	51
5	AI&DS	181	233	32
6	E.E.E.	6773	14757	59
7	CIVIL	1551	2869	50
8	General			98
Total		31495	63211	558

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Central Library – Circular

06.07.2026

Sub.: Congratulations and Appreciation for NPTEL STARS Recognition (Jan-Jun 2026)

The Management, Director, and Principal extend their congratulations and appreciation to the Heads of all Departments, SPOC, Mentors, Faculty Members, and Students for their dedicated efforts and active participation in the NPTEL Online Certification Courses.

Hearty congratulations to the following faculty members and students for their remarkable achievements during the **Jan-Jun 2026** session under various **NPTEL STAR** recognition categories.

1. Motivated Learners: The candidate must have appeared for at least eight NPTEL examinations between Jul-Dec 2024 to Jan-Jun 2026, successfully passed a minimum of 75% of the courses undertaken, and participated in at least one examination in each of four consecutive semesters during this period.

Sl. No.	Roll No.	Year & Dept.	NPTEL Reg. NO.	Name
1	2311009	III - E.C.E.	NPTELSS1260100308	MADHU MITHRAN J
2	2311020	III - E.C.E.	NPTELSS1260100309	MAHESH NITHIYA P
3	2311110	III - E.C.E.	NPTELSS1260101519	SANGEETHA A
4	2317024	III - AIDS	NPTELSS1260100310	ABHIN SUVEDHA A
5	2317035	III - AIDS	NPTELSS1260100311	ALAGURAJA S
6	2317039	III - AIDS	NPTELSS1260100312	SIVARAMA KRISHNAN M
7	2317047	III - AIDS	NPTELSS1260100313	PON JEYASHREE V J

2. NPTEL Enthusiasts: The candidate must have appeared for at least eight NPTEL examinations across four semesters between Jul-Dec 2024 to Jan-Jun 2026 and successfully passed a minimum of 75% of the courses undertaken. Continuity across semesters is not a requirement for this category.

Sl. No.	Roll No.	Year & Dept.	NPTEL Reg. NO.	Name
8	2317045	III - AIDS	NPTELSS1260102084	KAVIYA G
9	2317403	III - AIDS	NPTELSS1260102085	VISHWAPRIYA N
10	2317405	III - AIDS	NPTELSS1260102086	BARATH GOVINDHAR S

3. NPTEL Discipline Stars: The candidate must have been certified in multiple courses belonging to the same discipline, completed more than 50 weeks of cumulative learning, and achieved a final score of 55% or above in each course.

Sl. No.	Roll No.	Year & Dept.	NPTEL Reg. NO.	Name	Discipline
11		AP/SGI, ECE	NPTELSS1260108634	Dr.K.SUBRAMANIAN	C.S.E.
12		AP/SGI, CSE	NPTELSS1260104517	Mr.D.VIJAYAKUMAR	C.S.E.
13		AP/SGI, AIDS	NPTELSS1260108961	Dr.V.VIETRA ANUSUYA	C.S.E.
14		Faculty, CSE	NPTELSS1260103610	Ms.D.ABISHA	C.S.E.
15		Faculty, EEE	NPTELSS1260104923	Mr.J.THANGARAJ	E.E.E.
16		Faculty, IT	NPTELSS1260108665	Ms.R.SUGUNA	C.S.E.
17		Faculty, S&H	NPTELSS1260108814	Mr.J.THAMBRA	Chemistry & Biochemistry
18		Faculty, S&H	NPTELSS1260104643	Ms.S.GOPIGA DEVI	Humanities & Social Sciences
19		Research Scholar	NPTELSS1260103946	ASHEERA RASHEEKA	Chemistry & Biochemistry
20	2312114	III - C.S.E.	NPTELSS1260103355	HIMANE GUPTA	C.S.E.
21	2317051	III - AIDS	NPTELSS1260103357	NIKITHA BHARATHI G K	C.S.E.
22	2317054	III - AIDS	NPTELSS1260103358	VINUJA M	C.S.E.
23	2317059	III - AIDS	NPTELSS1260103359	AISHWARYA K	C.S.E.
24	2317404	III - AIDS	NPTELSS1260103360	PALANI SAMY M	C.S.E.
25	24104003	II - C.S.E.	NPTELSS1260103419	SUBHASREE G B	C.S.E.
26	24104005	II - C.S.E.	NPTELSS1260103420	HARENI T	C.S.E.
27	24104024	II - C.S.E.	NPTELSS1260103421	DHEESHA L	C.S.E.



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NATIONAL ENGINEERING COLLEGE, K.R. NAGAR, KOVILPATTI
(An Autonomous Institution, Affiliated to Anna University, Chennai)

Faculty Development Section

09.06.2026

CIRCULAR

A training program on “Effective Utilization of the Moodle Learning Management System” has been scheduled for faculty members with less than one year of experience. The session will be held on 12.06.2026 from 9:30 AM to 12:30 PM.

Dr. D. Venkatkumar, Professor, Department of Mechanical Engineering, will be the resource person for this program.

The list of faculty members attending the program is enclosed herewith. The listed faculty members are instructed to attend the session without exception. We look forward to your active participation in the program.


Dean (ACD & FDS)


PRINCIPAL

11.10 Proportion of Faculty Living in Faculty Housing

National Engineering College (Autonomous), Kovilpatti provides residential accommodation for faculty members within or near the campus to facilitate academic activities and ensure timely student support. Faculty housing contributes to:

1. Improved academic interaction beyond classroom hours.
2. Better mentoring and student guidance.
3. Enhanced campus safety and supervision.
4. Quick response during institutional activities and emergencies.



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5. A vibrant academic environment through faculty availability on campus.

11.11 Affordable Housing for Students

National Engineering College (Autonomous), Kovilpatti provides safe, secure, and affordable hostel facilities for students to ensure an inclusive and supportive learning environment. The hostel facilities include:

1. Separate hostels for boys and girls with adequate security.
2. Hygienic dining facilities, clean drinking water, and uninterrupted power supply.
3. Wi-Fi connectivity and study rooms to support academic activities.
4. Recreational facilities promoting students' well-being.
5. Residential support that enables students from different regions to pursue higher education comfortably.



Inclusive Residential Infrastructure for Women Students



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Campus Accommodation for Men Students

11.12 Education for Sustainable Cities and Communities

National Engineering College (Autonomous), Kovilpatti is committed to promoting **Sustainable Development Goal (SDG) 11 – Sustainable Cities and Communities** by integrating sustainability principles into its academic curriculum. The institution offers courses that enable students to develop the knowledge and competencies required for planning, designing, constructing, and managing sustainable, resilient, inclusive, and resource-efficient communities.

The curriculum contributes to sustainable urban development by emphasizing:

1. **Sustainable urban planning and infrastructure development** to create resilient and livable communities.



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2. **Environmentally responsible transportation systems** that enhance mobility, accessibility, and road safety.
3. **Water supply, wastewater, and stormwater management** for healthy and sustainable urban environments.
4. **Solid waste management and pollution control** to support clean and environmentally sustainable cities.
5. **Disaster risk reduction and resilient infrastructure** for improving community preparedness and climate resilience.
6. **Resource-efficient construction practices and green infrastructure** that minimize environmental impacts.
7. **Application of geospatial technologies, digital mapping, and smart city concepts** for effective urban planning and governance.
8. **Innovation and research in sustainable infrastructure solutions** addressing the social, economic, and environmental challenges of urban development.



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23CE30E

ENERGY EFFICIENT BUILDINGS

L	T	P	E	C
3	0	0	0	3

COURSE OUTCOMES

Upon completion of this course, the students will be able to

CO1: Explain Energy Demand and Efficient Systems

CO2: Explain Energy Use Solutions in Building Systems

CO3: Apply Heat Flow Principles and Optimize Glazing and Shading Systems

CO4: Acquire knowledge of ECBC Guidelines and Green Building Strategies

CO5: Explain Energy Economics and Efficient Building Technologies

CO1: Explain Energy Demand and Efficient Systems

9

Introduction and need for energy efficiency – Overview of energy efficiency in Vernacular buildings - Energy conservation through site planning, design and development - Energy - Past & Present scenario of World; National Energy consumption Data – Environmental aspects associated with energy utilization

CO2: Explain Energy Use Solutions in Building Systems

9

Factors that affect energy use in buildings - envelope factors, air- conditioning systems factors, Building management systems - Artificial lighting - Day lighting – Sources and concepts Daylight apertures

CO3: Apply Heat Flow Principles and Optimize Glazing and Shading Systems

9

Introduction to periodic heat flow in building- Glazing types, properties, glass layers, external and internal shading devices - Thermal performance of Building sections – Orientation of buildings

CO4: Acquire knowledge of ECBC Guidelines and Green Building Strategies

9



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Overview of Energy Conservation Building Code (ECBC) -Concepts of green buildings - sustainable site, water efficiency, materials and resources, energy and atmosphere, indoor environmental quality, and innovation in design- case studies and examples. – Green Building Rating System- BREEAM, LEED, IGBC, GRIHA.

CO5: Explain Energy Economics and Efficient Building Technologies

9

Energy Economics –Net Present Value, Life Cycle Costing –Energy Service Companies ESCO concept- Case studies on the energy efficient techniques and technologies adopted in buildings

TEXT BOOKS

1. Zhai, Z. J. (2023). Energy Efficient Buildings: Fundamentals of Building Science and Thermal Systems. John Wiley & Sons.
2. Tyma, C., & Kolokotroni, M. (2022). Building Services Design for Energy Efficient Buildings. Routledge.
3. IGBC Green new buildings Manual Version 3.0
4. SP72: 2010- National Lighting Code

REFERENCES

1. Roaf, S., & Crichton, D. (2019). Adapting Buildings and Cities for Climate Change: A 21st Century Survival Guide. Routledge.
2. Koenigsberger, O. H., & Ingersoll, T. G. (2013). Manual of Tropical Housing and Building: Climate Design. Hyderabad: Universities Press India Pvt. Ltd.
3. Majumdar, M. (2009). Energy-efficient buildings in India. TERI Press.

L: 45; TOTAL: 45 PERIODS



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23CE29E

SMART CITIES

L	T	P	E	C
3	0	0	0	3

COURSE OUTCOMES

Upon completion of this course, the students will be able to

CO1: Explain the concept of smart & sustainable city and associated challenges.

CO2: Explain the Infrastructure Planning and Development for smart Cities.

CO3: Explain feasibility analysis of Transportation system for Smart Cities.

CO4: Apply data-driven strategies and modern technologies to improve smart city functions.

CO5: Apply GIS and remote sensing techniques to urban planning and management for smart cities.

CO1 Explain the concept of smart & sustainable city and associated challenges L: 9

Introduction to smart & sustainable cities- Definition, dimensions, scope Smart Cities – Global Standards and Performance Benchmarks, Practice Code, Principal stakeholders, key trends in smartcities developments, Concept of Sustainable cities. Applications of SmartTechnologies in Urban Planning, Case Studies of Smart City Projects, Challenges and Future Trends.Smartcity Mission of India.

CO2 Explain the Infrastructure Planning and Development for smart Cities L: 9

Planning for Urban Infrastructure, Introduction to city planning, key trends in smart cities developments, Sustainable features for smart cities. Role of Planner in the provision of urban networks for different services. Feasibility studies for infrastructure projects, planning for major infrastructure projects, Various Infrastructure Program and policies by MOUD, PPP (DBOOT, BOOT, etc.) in infrastructure projects. Dimension of smart cities, financing smart cities development, Governance of smart cities.

CO3 Explain feasibility analysis of Transportation system for Smart Cities L: 9

Urbanization and urban mobility, urban land use and transport. Concepts of sustainable mobility, public transportation, pedestrians and bicyclists and parking, fundamentals of the intelligent transportation systems (ITS)



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CO4 Apply data-driven strategies and modern technologies to improve smart city functions

L: 9

Role of Technologies in Smart Cities - Data driven strategies implementation in smart cities, leveraging recent technologies in enhancing urban living: internet of things (IoT), ICT services for smart cities, Benefits of employing ICT, ICT system components for smart cities, State of the art in ICT.

CO5 Apply GIS and remote sensing techniques to urban planning and management

Passed in the Board of studies meeting held on 21.11.2025 & Approved in the 24th Academic Council meeting dated 13.12.2025
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for smart cities

L: 9

Fundamentals of GIS and Remote Sensing, Applications of GIS and Remote Sensing – Urban Planning and Management, Smart Cities, Transportation Planning, Environmental Management and Sustainability, Case Studies.

REFERENCES

1. P Sharma , “Sustainable Smart cities in India, Challenges and Future Perspectives”, Springer Link, 2017
2. Sameer Sharma, “Smart Cities Unbounded- Ideas and Practice of Smart Cities in India”, Bloomsbury India, 2018.
3. Binti Singh, Manoj Parmar, “Smart City in India Urban Laboratory, Paradigm or Trajectory? , Routledge India, 2019
4. <https://smartcities.gov.in/guidelines#block-habikon-content>
5. Stimmel, L., "Building Smart Cities: Analytics, ICT, and Design Thinking," Boca Raton, FL, USA: CRC Press, Taylor & Francis Group, 2016.


Member


SDG Coordinator


Principal