TERNA PUBLIC CHARITABLE TRUST'S

**TERNA ENGINEERING COLLEGE**

(Approved by AICTE & Affiliated to University of Mumbai)

Plot No. 12, Sector 22, Opposite Railway Station, Nerul (W), Navi Mumbai- 400706. Ph. +91 22 61115444, Fax No.+91 22 61115400
Web : https://ternaengg.ac.in/

# Report on

# Value Added Course - Primavera

Enrolled Students

**B.E. Civil Engineering**

Academic Year:

**2024-2025**

terna
Knowledge to Empower

Organized by

**Department of Civil Engineering, Nerul, Navi Mumbai**

## 2. About Institute

Terna Public Charitable Trust's Terna Engineering College is one of the well-known and It is located at Nerul, Navi Mumbai on a beautiful 3 acre campus. The institute is affiliated to University of Mumbai, approved by AICTE and accredited by National Board of Accreditation (NBA). This institution offers 7 UG, 4 PG and 3 PhD courses. Highest quality education is catered with curriculum extension by means of exceptional offerings like Engineering Products and Innovation Center (EPIC), Remote center of IIT Bombay which facilitates student / faculty members to interact with IIT professors through video conferencing, Industry Institute Interaction Cell, Electronics club (collaboration with 25 local electronics SMEs), e-Yantra Embedded Systems and Robotics Lab, Apple lab, Texas Instruments Lab. We are a diverse, talented community united by passion for learning and quest for more. Terna motivates students to make a difference in our campus, in the state, country and around the world.

## 2.1 About Department

The Department of Civil Engineering was established in the year 2017. The Mission of Department is to promote the disciplines of Planning, Design, Construction, Operation,
Maintenance and Research. It offers students technical knowledge with technique for better utilization of available resources and greater standardization of construction processes required by construction industry. We intend to develop students by giving training to make use of innovative design methods, techniques and practical implementation. Highly qualified and dedicated faculty are recruited and they are always on their toes to guide the students, forming the backbone of the department.
Key Features:

- Well Equipped Laboratories – Materials and Concrete Technology, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, Engineering Geology, CAD Laboratory, Surveying Laboratory, Hydraulics and Fluid Mechanics Laboratories
- Consultancy Services Offered and Fully Equipped With Major Facilities Like Fully Automatic Compression Testing Machine 200 Tons (NABL Accredited), Fully Automatic Universal Testing Machine (UTM 100 Ton- NABL Accredited), Fully Automated Total Station for Professional Surveying
- Consultancy Services Offered for Non-Destructive Testing
- Faculties with Experience in Design and Execution of Residential, Commercial, Oil & Gas, Power Projects
- Faculties with Experience in Research in the Field of Smart Materials & Smart Structures, Pavement Design & Analysis, Geotextile Materials for Soil Stabilization, Geotechnical Engineering, Remote Sensing & GIS

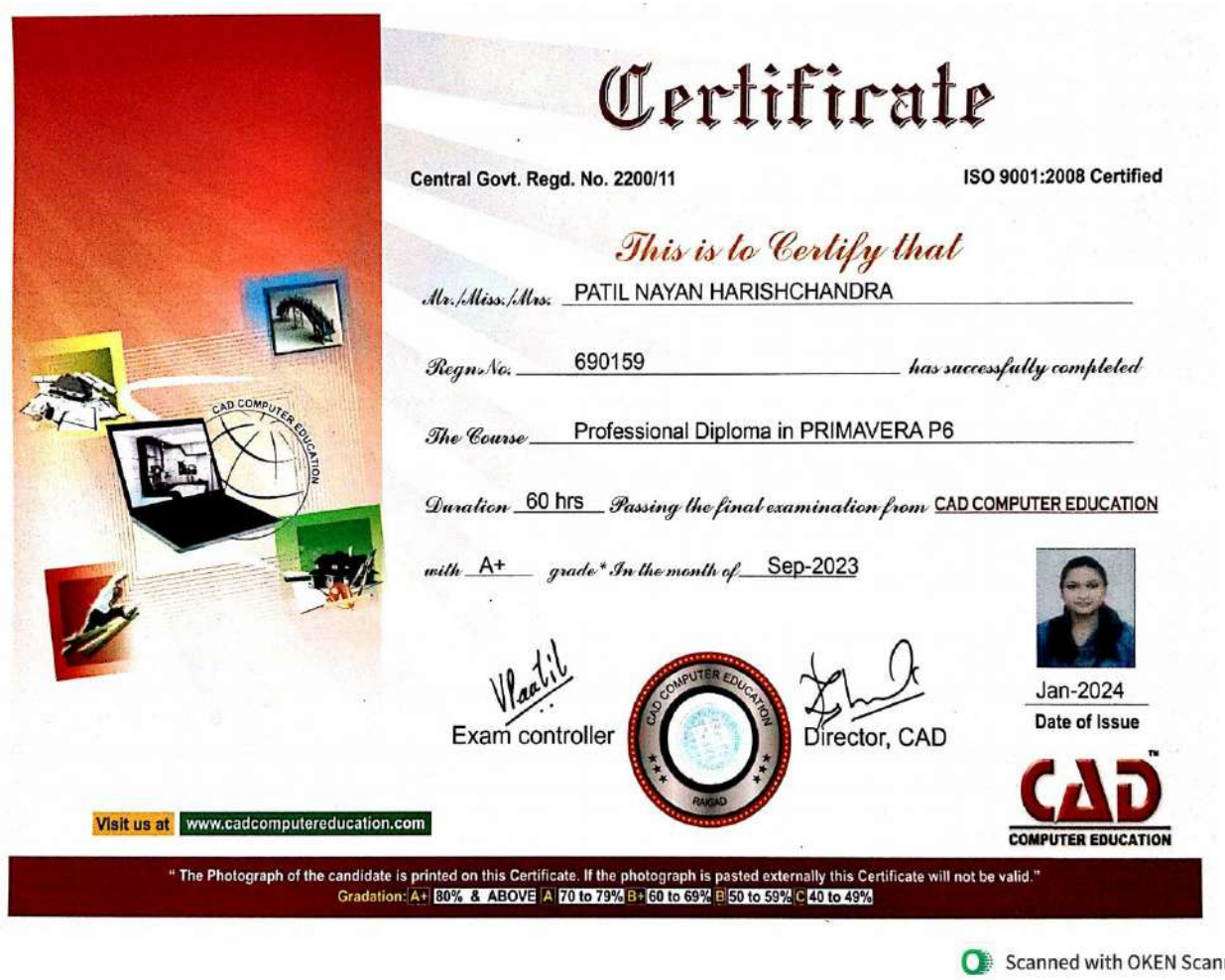
- Active Mentoring Processes for Continuous Assessment in Academics
- Learning Experience Through Active Consultancy Projects
- Industrial Visits-CIDCO, PWD, MMRDA, Rock Museum Nasik
- Internship for Students (With & Without Stipend)
- International Students Chapter Association & Merit Scholarships
- Expert Lectures by Industry Experts
- NPTEL Courses
- Skill Based, Project Based Learning, Interactive and Interest Based Core Domain Learning
- Patents, Designs and Copyright Development
- Achieved 100 % students intern during winter vacations (2019-2020) in renowned organizations like Airport Authority of India (AAI), Public Work Department (PWD), City and Industrial Development Corporation (CIDCO), Rashtriya Chemical Fertilizers (RCF), American Concrete Institute and so many.

## 3. About Course

An add on course on Oracle Primavera P6 software has been introduced by the Department of Civil Engineering, Terna Engineering College, Navi Mumbai for B.E.(Civil) students. Oracle Primavera P6 is a project, program and portfolio management tool that's used for planning, managing and executing your project work. It's designed to handle large and small projects in many diverse industries, such as construction, manufacturing, energy, and IT.This course is beyond their regular syllabus. This will be beneficial to students for their project work and ready for industry. Duration of course will be 40 hrs.

## 4. About Instructor

This course will be conducted by Prof.Nayan Patil faculty of TEC having 3 years teaching experience and Master in Construction Engineering and Management and Certified for Primavera Software.



Certificate

Central Govt. Regd. No. 2200/11 ISO 9001:2008 Certified

This is to Certify that

Mr./Miss./Mrs. PATIL NAYAN HARISHCHANDRA

Regn. No. 690159 has successfully completed

The Course Professional Diploma in PRIMAVERA P6

Duration 60 hrs Passing the final examination from CAD COMPUTER EDUCATION

with A+ grade* In the month of Sep-2023

Exam controller

Director, CAD

Jan-2024

Date of Issue

CAD COMPUTER EDUCATION

Visit us at www.cadcomputereducation.com

" The Photograph of the candidate is printed on this Certificate. If the photograph is pasted externally this Certificate will not be valid."

Gradation: A+ 80% & ABOVE A 70 to 79% B+ 60 to 69% B 50 to 59% C 40 to 49%



## 5. Course Scheme

The marking scheme of this course has been decided at the institute and the departmental level.

ValueAdded Course:-Primavera

Contact Hours: - 02 per week (Total 40)

Sem. : - VII

| Attendance | Assignment | Oral | TOTAL |
|---|---|---|---|
| 10 | 30 | 10 | 50 |

## 6. Syllabus

| Sr.No. | Topic | Hours |
|---|---|---|
| 1 | Introduction of Primavera P6 software.<br>Various tools used & various default settings in Primavera.Generation of Enterprise project structure (EPS), Organization Breckdown Structure (OBS). | 10 |
| 2 | Creation of Calendar for a new project, WBS and Creation activities for the project. Adding logic link /Give Relationship – FS, SS, SF, and FF and Scheduling of various Activities. | 8 |
| 3 | CPM and PERT Network diagram Analysis by manully and computerized. (Float time for activities) . | 4 |
| 4 | Allocation of various resources to every activities and resource analysis of the project. Creation Baseline to every activity, preparation of grant chart. Generation of various reports , Creation of Export and Import of files in excel sheet. | 12 |
| 5 | Planning of G+1 Residential building.<br>Planning of G+2 Residential building.<br>Planning of G+3 Residential building. | 6 |

## 7. Course Objective and Course Outcome

## Course Objective-

1. To learn & understand basic commands of primavera software.
2. To prepare a schedule for different activities in the given completion time of project.
3. To analyses the project requirement & time management.

## Course Outcome-

On completion of this course, the students will be able to:

**CO1:** Understand basic commands and create a project.

**CO2:** Create calendars, WBS, Add activities and their relationships.

**CO3:** Define, assign and Analyses the resources.

**CO4:** Prepare bar chart of different activities.

### 7.1 Program Outcome

**PO 1: -**Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO 2: -** Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

**PO 3: -** Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO 4: -** Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO 5: -** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO 6: -** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7: -** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO 8: -** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO 9: -** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO 10: -**Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO 11: -** Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO 12: -** Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### Program Specific Outcome

**PSO 1: -** Graduates will be able to plan, analyse, design and drawing and estimate for residential, commercial, industrial and infrastructure projects.They will be able to work on site for supervision of various construction activities.

**PSO 2: -** Graduates will be able to use different software related to Civil Engineering for developing skills required by the industry.

## 8 CO, PO Mapping .

# TERNA ENGINEERING COLLEGE

**Department of Civil Engineering**

Academic Year: 2024-2025 ( SH 24)

**Add on Course - Primavera software**

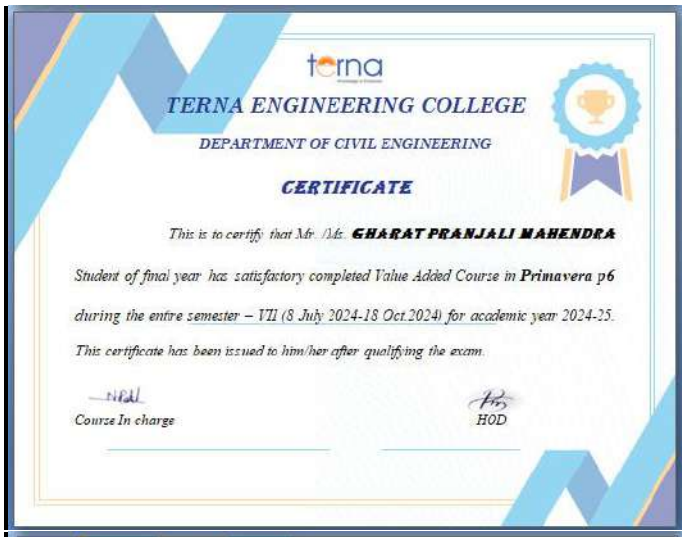
**Class –BE Civil (Sem VII)**

| Sr. No. | LIST OF EXPERIMENTS | CO | PO | PSO |
|---|---|---|---|---|
| 1 | Introduction of Primavera P6 software. | 1 | 1,4,5,9,11,12 | 1 |
| 2 | Various tools used & various default settings in Primavera. | 1 | 1,4,5,9,11,12 | 2 |
| 3 | Generation of Enterprise project structure (EPS), Organization Breckdown Structure (OBS). | 1 | 1,4,5,9,11,12 | 1,2 |
| 4 | Start New Project, Creation of Calendar, WBS for the project & Creating activities for the project. | 2 | 1,3,4,7,8,9, 10,11,12 | 1,2 |
| 5 | Adding logic link /Give Relationship –FS, SS, SF, and FF and scheduling of various Activities. | 2 | 1,3,4,7,8,9, 10,11,12 | 1,2 |
| 6 | CPM and PERT Network diagram Analysis by manually and computerized. (Float time for activities) . | 2 | 1,3,4,7,8,9, 10,11,12 | 1,2 |
| 7 | Assign resources to every activities & Resource analysis of the project. | 3 | 1,2,3,5,7,8,9,10,11, 12 | 1,2 |
| 8 | Creating Baseline to every activity, preparing grant chart. | 4 | 1,2,3,5,7,8,9,10,11, 12 | 1,2 |
| 9 | Generation of various reports & Creation Export and Import of files | 4 | 1,4,5,6,8,9, 10,11,12 | 1,2 |
| 10 | Planning of G+3 Residential building. | 1,2,3 4 | 1,4,5,6,8,9, 10,11,12 | 1,2 |

Mrs Nayan Patil
**Subject Incharge**

Mrs.Poonam Patil
**APC**

Dr.Priyanka Salunkhe
**H.O.D**



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DEPARTMENT OF CIVIL ENGINEERING

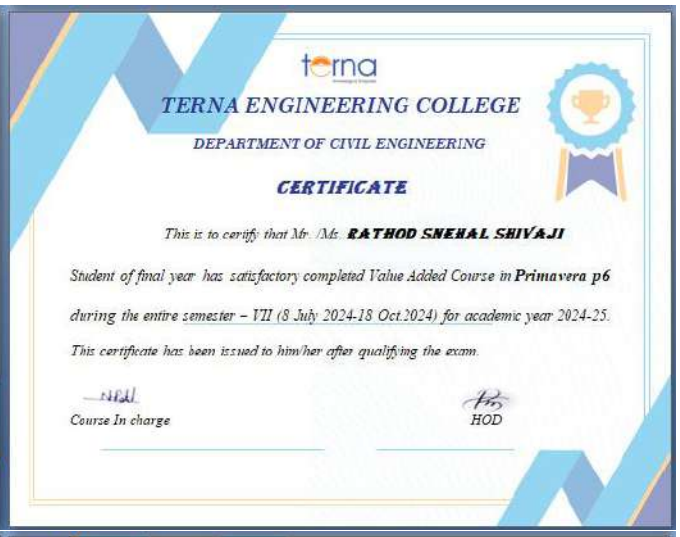
CERTIFICATE

This is to certify that Mr. /Ms. **GHARAT PRANJALI MAHENDRA**

Student of final year has satisfactory completed Value Added Course in **Primavera p6** during the entire semester – VII (8 July 2024-18 Oct.2024) for academic year 2024-25.

This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD



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TERNA ENGINEERING COLLEGE

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **RATHOD SNEHAL SHIVAJI**

Student of final year has satisfactory completed Value Added Course in **Primavera p6** during the entire semester – VII (8 July 2024-18 Oct.2024) for academic year 2024-25.

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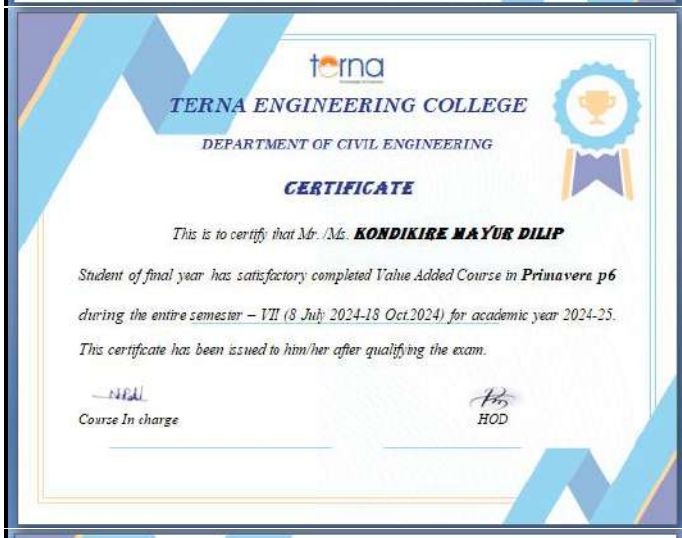
Course In charge HOD



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CERTIFICATE

This is to certify that Mr. /Ms. **KONDIKIRE MAYUR DILIP**

Student of final year has satisfactory completed Value Added Course in **Primavera p6** during the entire semester – VII (8 July 2024-18 Oct.2024) for academic year 2024-25.

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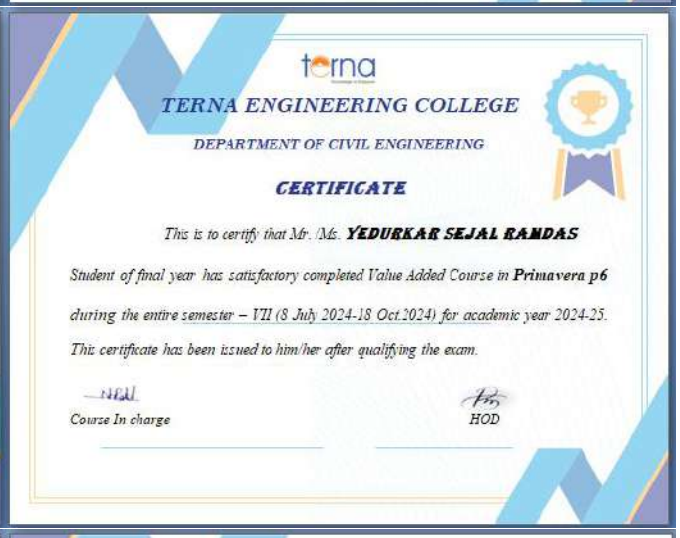

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CERTIFICATE

This is to certify that Mr. /Ms. **YEDURKAR SEJAL RAMDAS**

Student of final year has satisfactory completed Value Added Course in **Primavera p6** during the entire semester – VII (8 July 2024-18 Oct.2024) for academic year 2024-25.

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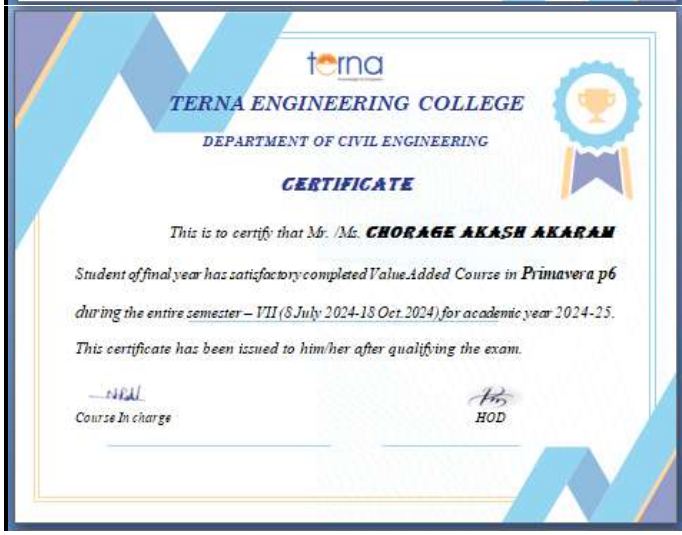

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CERTIFICATE

This is to certify that Mr. /Ms. **CHORAGE AKASH AKARAM**

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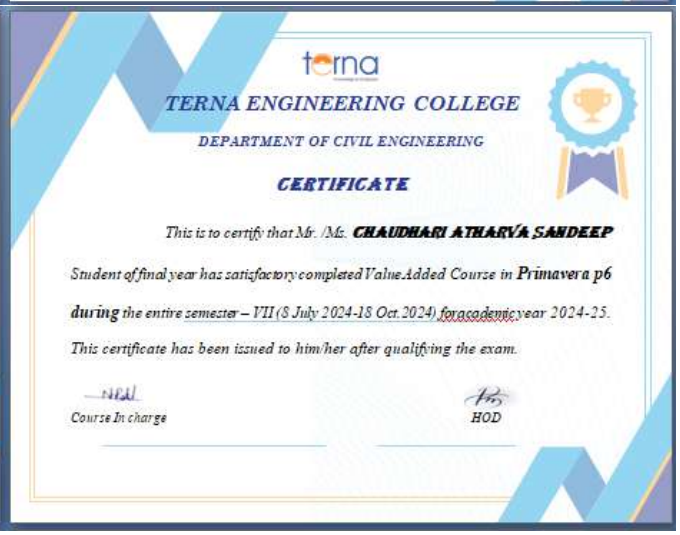
Course In charge HOD



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CERTIFICATE

This is to certify that Mr. /Ms. **CHAUDHARI ATHARVA SANDEEP**

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Course In charge HOD