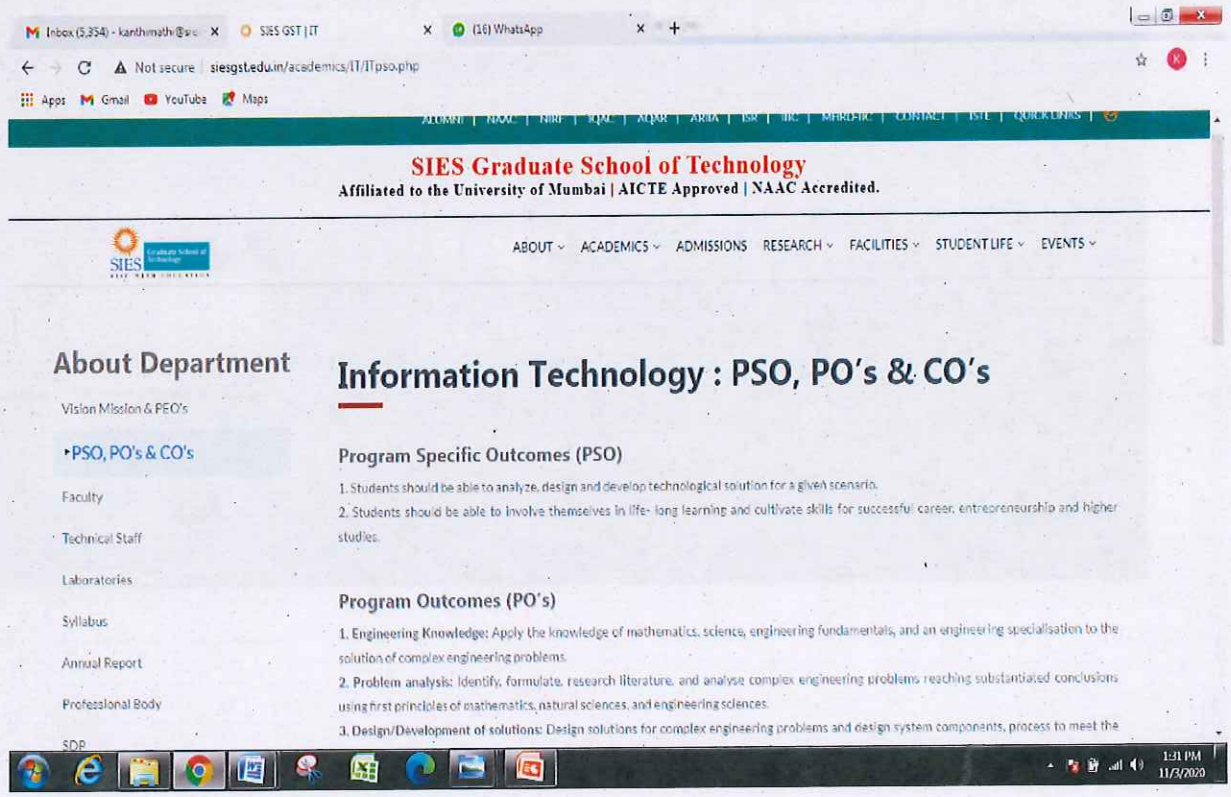
2.6.1-Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

Programme outcomes, Programme specific outcomes and course outcomes for all Programme offered by the institution are stated and displayed on website and communicated to teachers and students.

Department of Informational Technology

Display on website



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PSO display on Department Entrance (on wall)

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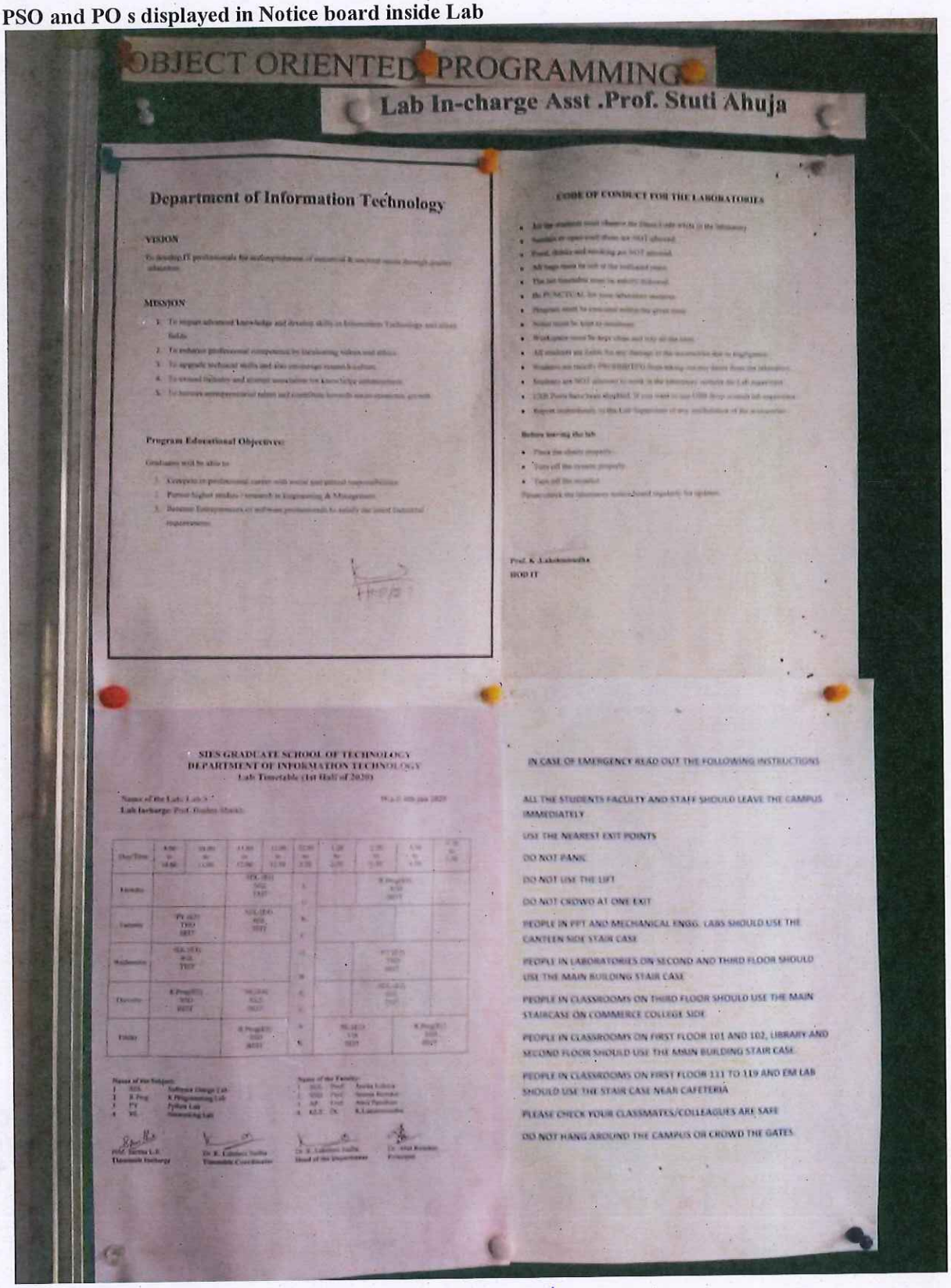
PSO and PO s displayed in Notice board inside Lab



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COs on Faculty's Handbook

Course Plan

Semester: **6 - Semester**	Year: **2020**
Course Title: **Digital Forensics**	Course Code: **ITDLO6023**
Total Contact Hours: **52**	Duration of TEE: 3 Hours
TEE Marks: **80**	CIA Marks: **20**
Lesson Plan Author: Prof. Stuti Ahuja	
Checked By: Prof. Mrinal Khadse	

Course Outcomes (COs):

At the end of the course the student should be able to:

1. Define the concept of ethical hacking and its associated applications in information communication technology (ict) world.
2. Identify the need of digital forensic and role of digital evidences
3. Explain the methodology of incident response and various security issues in ict world, and identify digital forensic tools for data collection
4. Describe the importance of digital forensic duplication and various tools for analysis to achieve adequate perspectives of digital forensic investigation in various applications /devices like windows/unix system.
5. Apply the knowledge of ids to secure network and performing router and network analysis
6. List the method to generate legal evidence and supporting investigation reports and will also be able to use various digital forensic tools

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs)

Course Title: Digital Forensics	Semester: 6 - Semester
Course Code: ITDLO6023	Year: 2019-20

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Laboratory Plan

Laboratory Course Plan: B.E. in IT 2018-2022

Laboratory Title: **UNIX Lab**	Lab. Code: **ITL402**
Total Hours: **20**	Duration of SEE Hours: 2
SEE Marks: **25**	CIE Marks: **15**
Lab. Plan Author: Ms.Bushra Shaikh	Last Modified Date: 02-01-2020
Checked By: Ms.Lakshmisudha	Last Reviewed Date: 03-01-2020

Course Outcomes (COs):

At the end of the course the student should be able to:

1. Identify the basic UNIX general purpose commands.
2. Apply and change the ownership and file permissions using advance UNIX commands
3. Apply networking UNIX commands
4. Apply basic of administrative task.
5. Use the awk, grep, perl scripts.
6. Implement shell scripts and sed

Course Articulation Matrix: Mapping of Course Outcomes (CO) with Program Outcomes

Course Title: UNIX Lab	Semester:4 - Semester
Course Code:ITL402	Year: 2019

Course Outcomes / Program Outcomes	1	2	3	4	5	6	7	8	9	10	11	12	13	14

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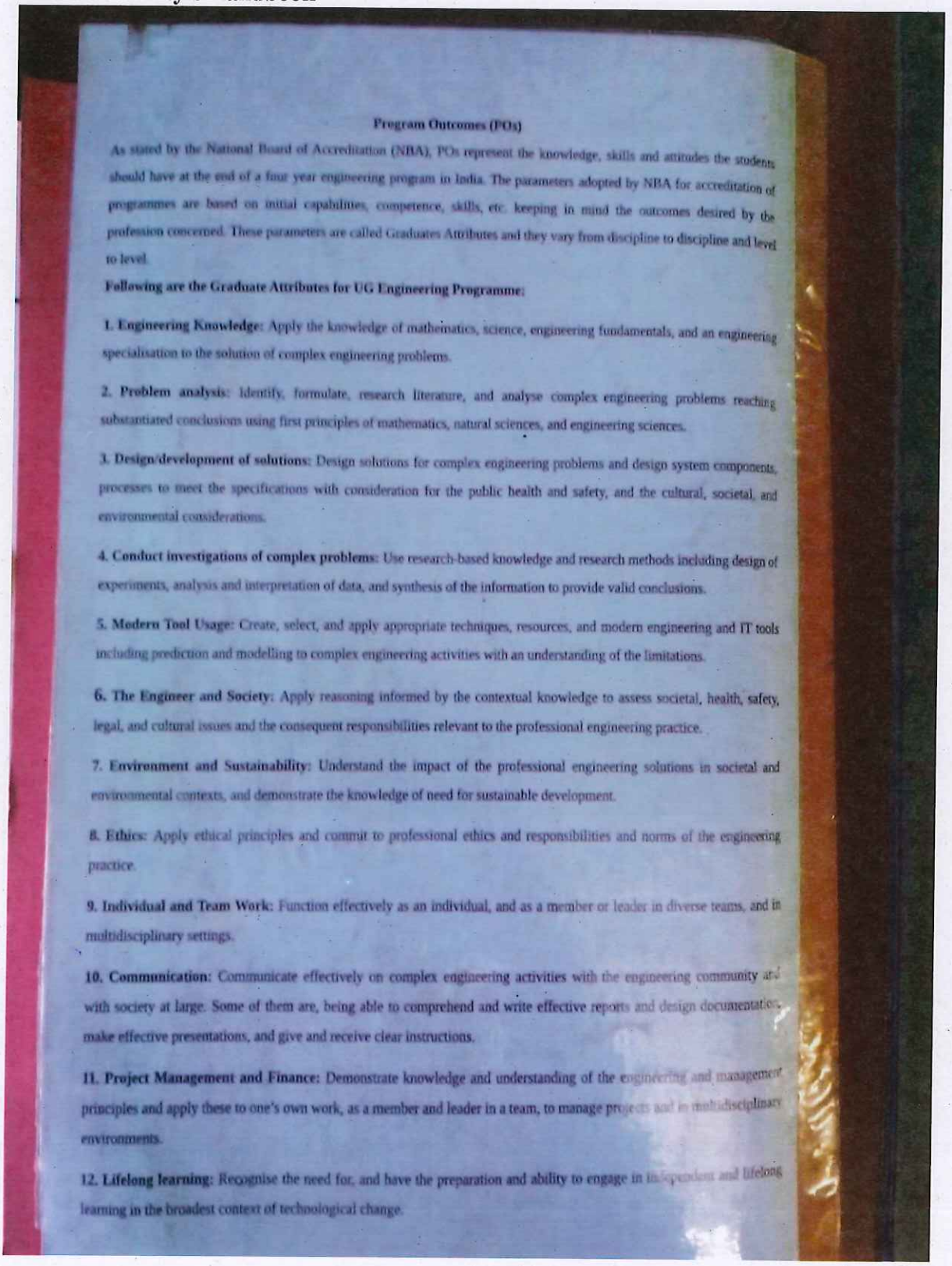
PO s on Facullty's Handbook



Program Outcomes (POs)

As stated by the National Board of Accreditation (NBA), POs represent the knowledge, skills and attitudes the students should have at the end of a four year engineering program in India. The parameters adopted by NBA for accreditation of programmes are based on initial capabilities, competence, skills, etc. keeping in mind the outcomes desired by the profession concerned. These parameters are called Graduates Attributes and they vary from discipline to discipline and level to level.

Following are the Graduate Attributes for UG Engineering Programme:

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

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

3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.

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.

5. **Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

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.

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

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

9. **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

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

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.

12. **Lifelong learning:** Recognise the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

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PSO shown during PTM Presentation

[redacted]

Vision and Mission of IT Department

VISION

To develop IT professionals for accomplishment of industrial & societal needs through quality education.

MISSION

1. To impart advanced knowledge and develop skills in Information Technology and allied fields.
2. To enhance professional competence by inculcating values and ethics.
3. To upgrade technical skills and also encourage research culture.
4. To extend industry and alumni association for knowledge enhancement.
5. To nurture entrepreneurial talent and contribute towards socio-economic growth.

PROGRAM EDUCATIONAL OBJECTIVES

Graduates will be able to:

1. Compete in professional career with social and ethical responsibilities.
2. Pursue higher studies / research in Engineering & Management.
3. Become Entrepreneurs or software professionals to satisfy the latest Industrial requirements.

[redacted]

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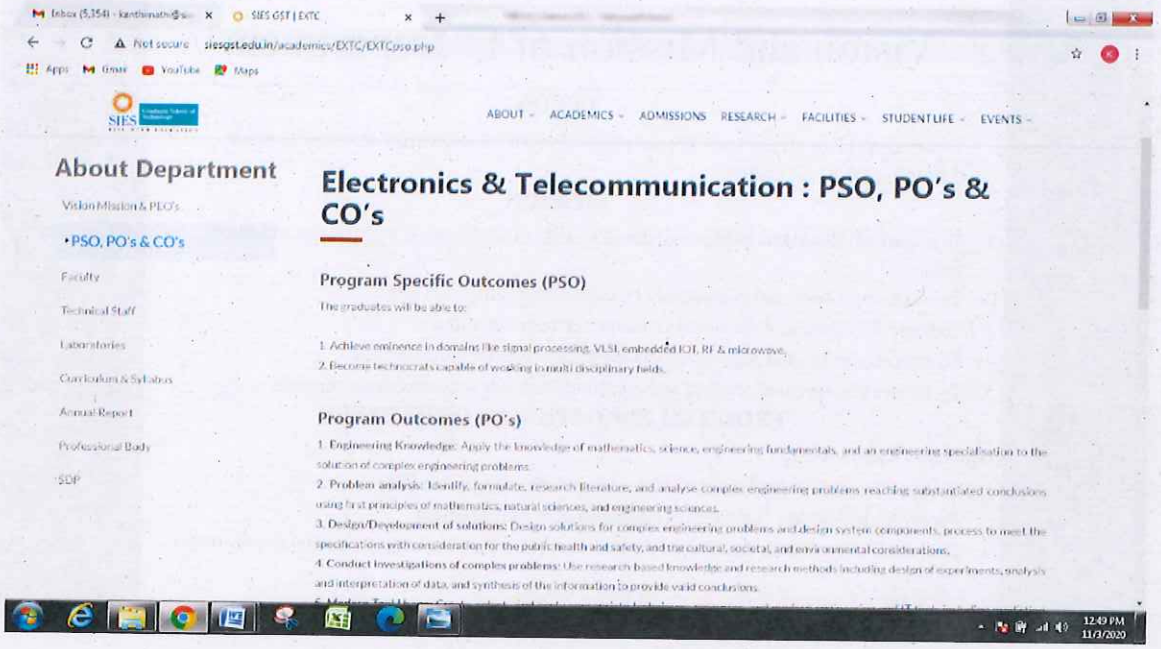
Department of Electronics and Telecommunication

Display on website



PSO display on Department Entrance (on wall)

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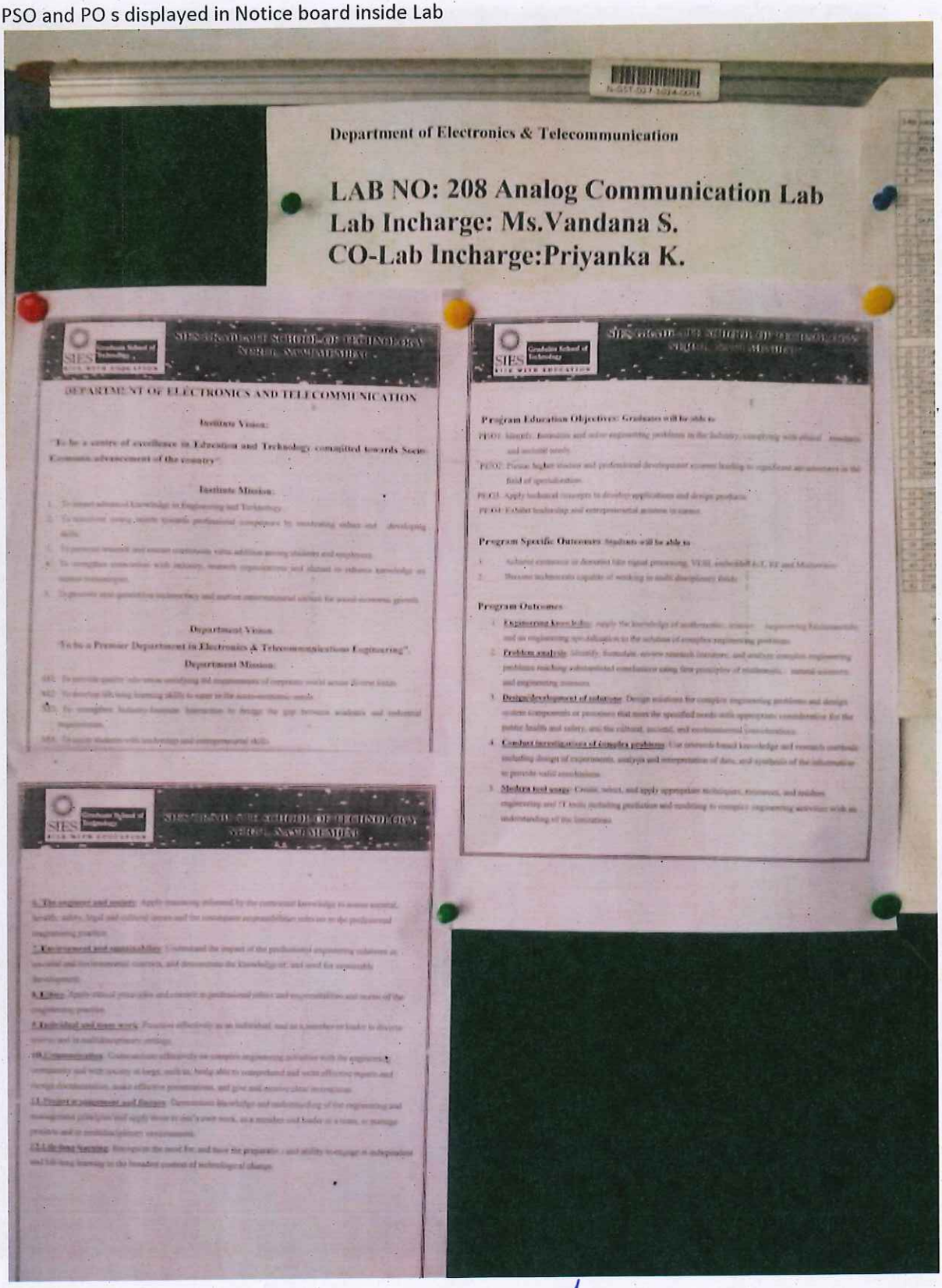

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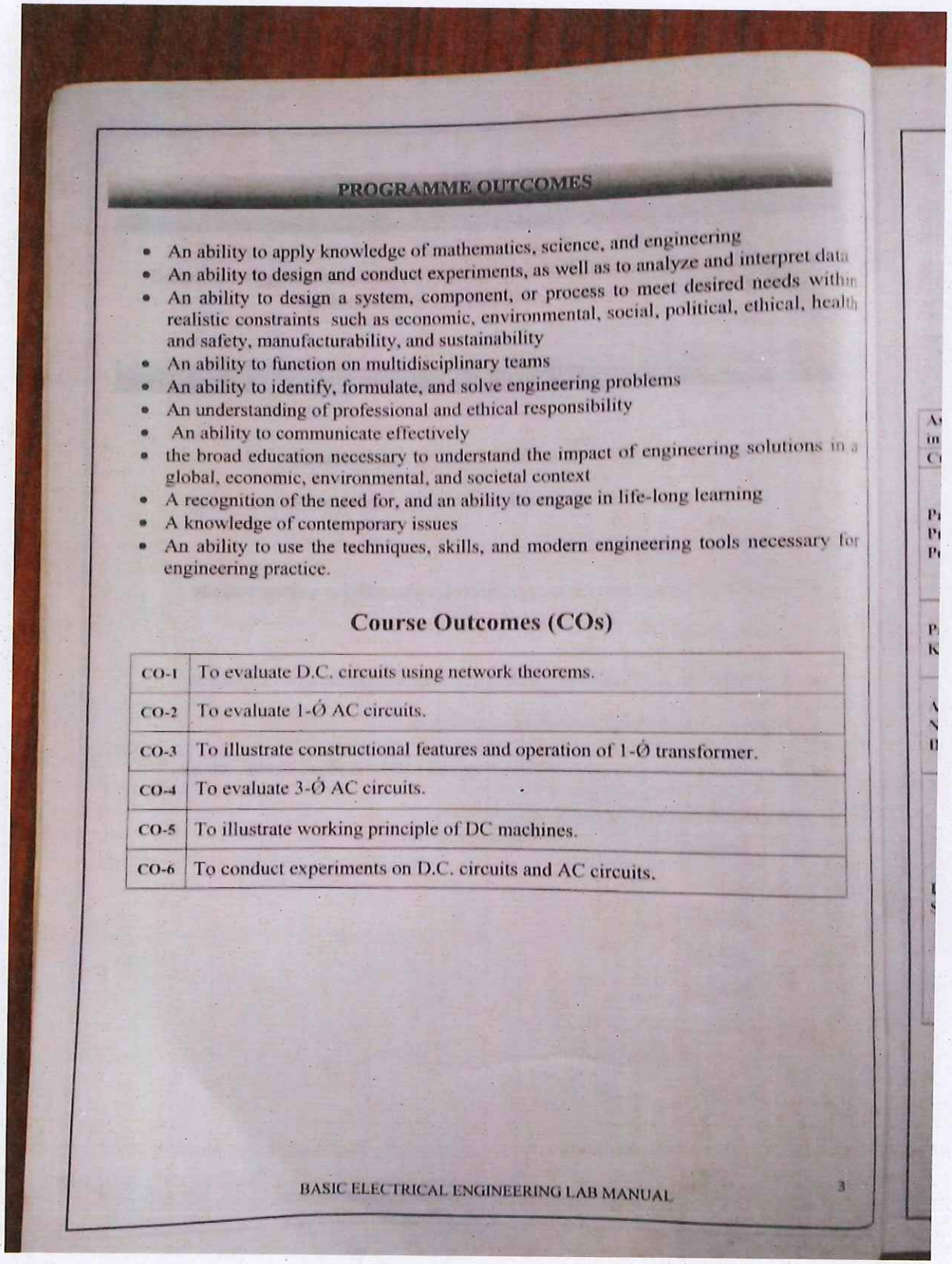
CO on lab manual



PROGRAMME OUTCOMES

- An ability to apply knowledge of mathematics, science, and engineering
- An ability to design and conduct experiments, as well as to analyze and interpret data
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- An ability to function on multidisciplinary teams
- An ability to identify, formulate, and solve engineering problems
- An understanding of professional and ethical responsibility
- An ability to communicate effectively
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- A recognition of the need for, and an ability to engage in life-long learning
- A knowledge of contemporary issues
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Course Outcomes (COs)

CO-1	To evaluate D.C. circuits using network theorems.
CO-2	To evaluate 1-Ó AC circuits.
CO-3	To illustrate constructional features and operation of 1-Ó transformer.
CO-4	To evaluate 3-Ó AC circuits.
CO-5	To illustrate working principle of DC machines.
CO-6	To conduct experiments on D.C. circuits and AC circuits.

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CO s on Faculty's Handbook

urse Title: **Microcontroller & Applications**	Course Code: **ECC601**
tal Contact Hours:	Duration of TEE: 3 Hours
E Marks: **80**	CIA Marks: **20**
sson Plan Author: Mrs. Kintu Patel	Last Modified Date: 31-12-2018
ecked By: Mr. Vishal Gaikwad	Last Reviewed Date: 6-4-2019

urse Outcomes (COs):

the end of the course the student should be able to:

1. Explain the detailed architecture of 8051 and arm7 microcontrollers.
2. Describe the in-depth working of the 8051 microcontroller and analyze it's instruction set.
3. Interface & Ilustrate various peripheral devices to the microcontrollers.
4. Write assembly language program for 8051 microcontroller.
5. Describe the in-depth working of the arm7 microcontroller and analyze it's instruction set.
6. Write embedded c language program for arm7 microcontroller.

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs)

ourse Title: Microcontroller & Applications	Semester: 6 - Semester
ourse Code: ECC601	Year: 2019

PSO shown during PTM Presentation

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Department of Electronics and Telecommunication

Vision

To be a Premier Department in Electronics & Telecommunications Engineering.

Mission

1. To provide quality education satisfying the requirements of corporate world across diverse fields.
2. To develop life-long learning skills to cater to the socio-economic needs.
3. To strengthen Industry-Institute Interaction to bridge the gap between academic and industrial requirements.
4. To equip students with leadership and entrepreneurial skills.

PROGRAMME EDUCATIONAL OBJECTIVES

1. Identify, formulate and solve engineering problems in the Industry, complying with ethical standards and societal needs.
2. Pursue higher studies and professional development courses leading to significant advancement in the field of specialization.
3. Apply technical concepts to develop applications and design products.

Program Specific Outcomes

Students Will be able to;

1. Achieve eminence in domains like signal processing, VLSI, embedded IoT, RF & microwave.
2. Become technocrats capable of working in multi disciplinary fields.

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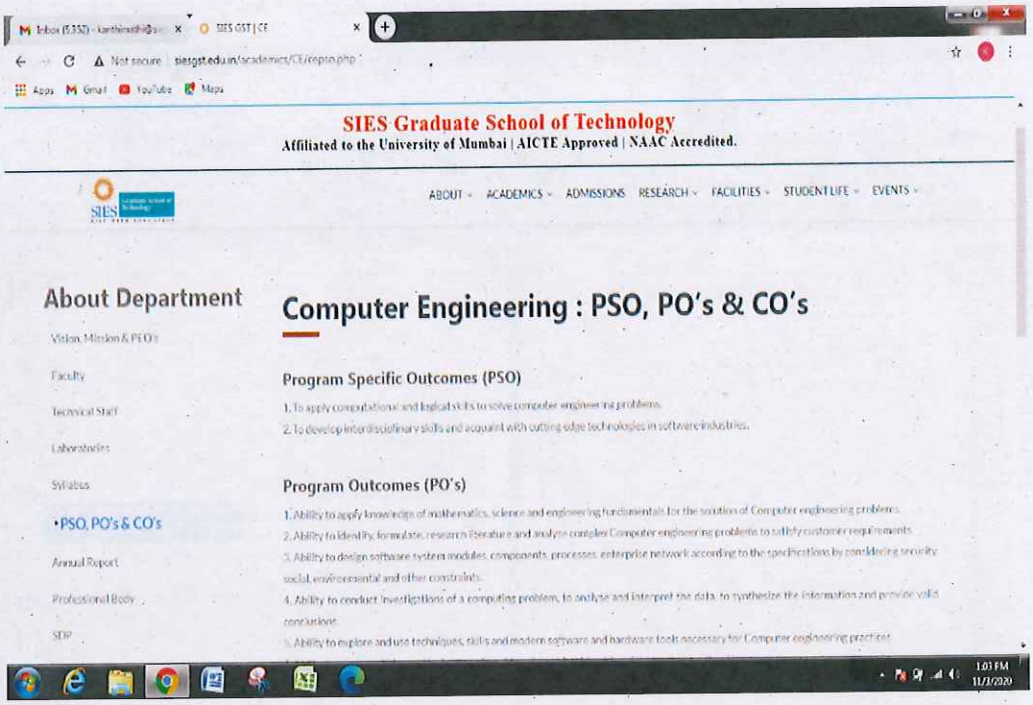
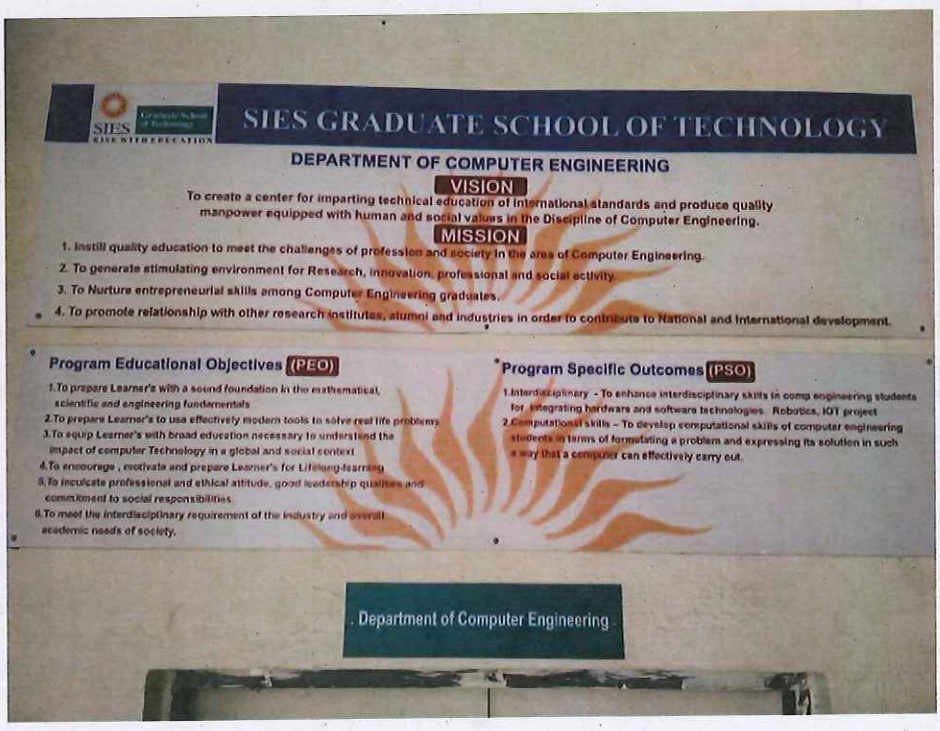
Display on website



PSO display on Department Entrance (on wall)



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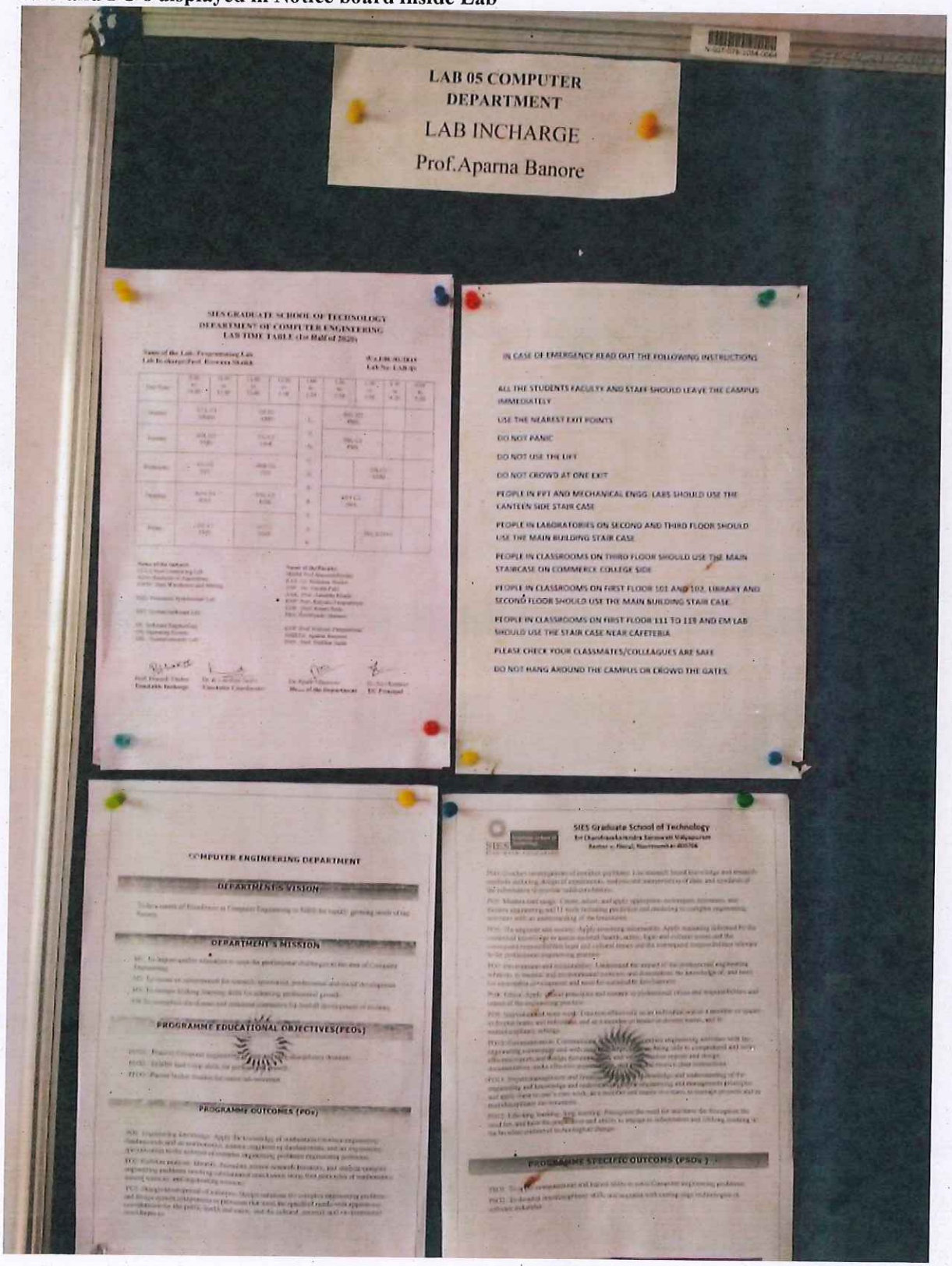
PSO and PO s displayed in Notice board inside Lab



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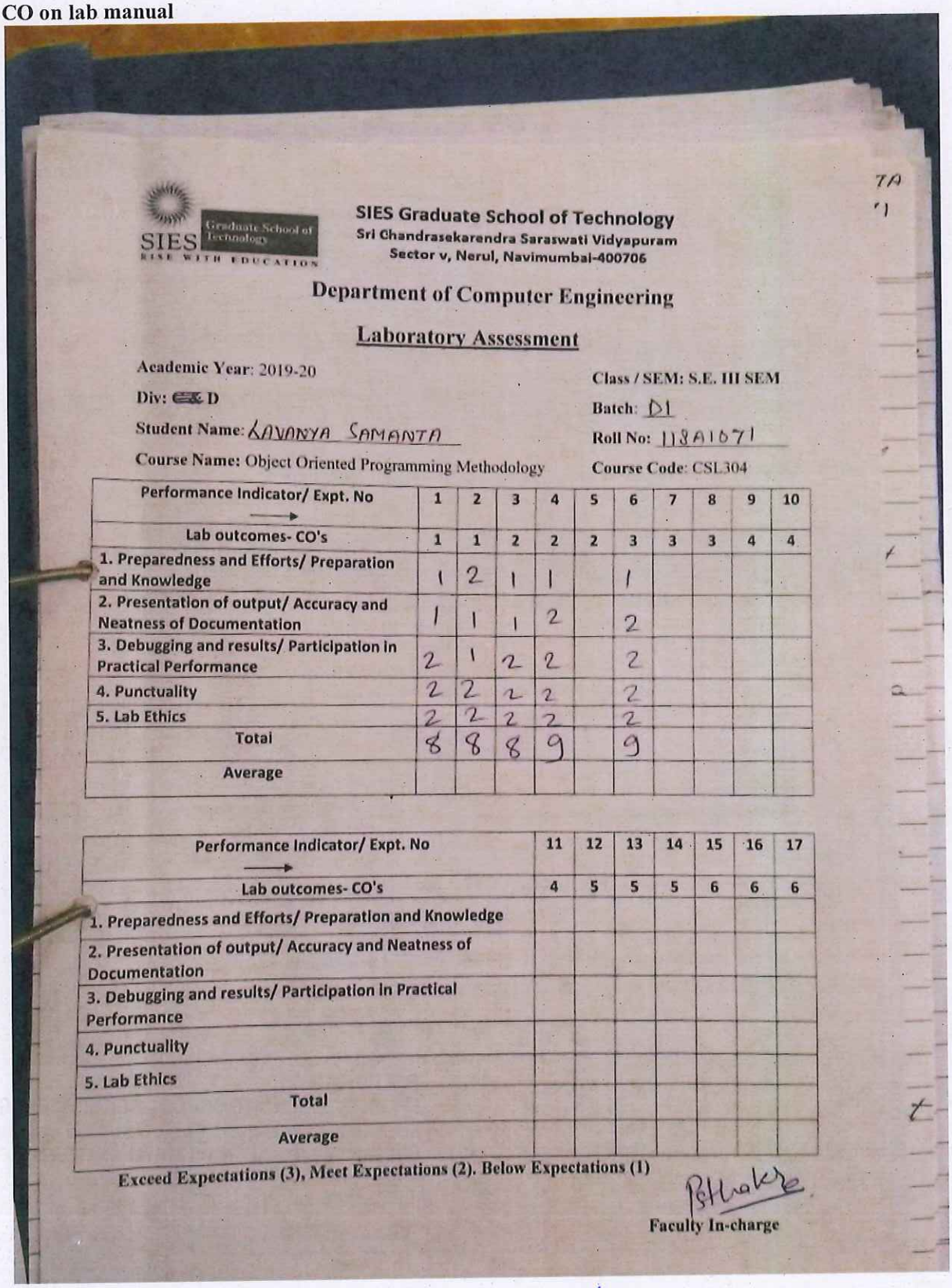
CO on lab manual



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Department of Computer Engineering

Laboratory Assessment

Academic Year: 2019-20

Class / SEM: S.E. III SEM

Div: D

Batch: D1

Student Name: KAVANYA SAMANTA

Roll No: 1183A1071

Course Name: Object Oriented Programming Methodology

Course Code: CSL304

Performance Indicator/ Expt. No →	1	2	3	4	5	6	7	8	9	10
Lab outcomes- CO's	1	1	2	2	2	3	3	3	4	4
1. Preparedness and Efforts/ Preparation and Knowledge	1	2	1	1		1				
2. Presentation of output/ Accuracy and Neatness of Documentation	1	1	1	2		2				
3. Debugging and results/ Participation in Practical Performance	2	1	2	2		2				
4. Punctuality	2	2	2	2		2				
5. Lab Ethics	2	2	2	2		2				
Total	8	8	8	9		9				
Average										

Performance Indicator/ Expt. No →	11	12	13	14	15	16	17
Lab outcomes- CO's	4	5	5	5	6	6	6
1. Preparedness and Efforts/ Preparation and Knowledge							
2. Presentation of output/ Accuracy and Neatness of Documentation							
3. Debugging and results/ Participation in Practical Performance							
4. Punctuality							
5. Lab Ethics							
Total							
Average							

Exceed Expectations (3), Meet Expectations (2). Below Expectations (1)

Faculty In-charge

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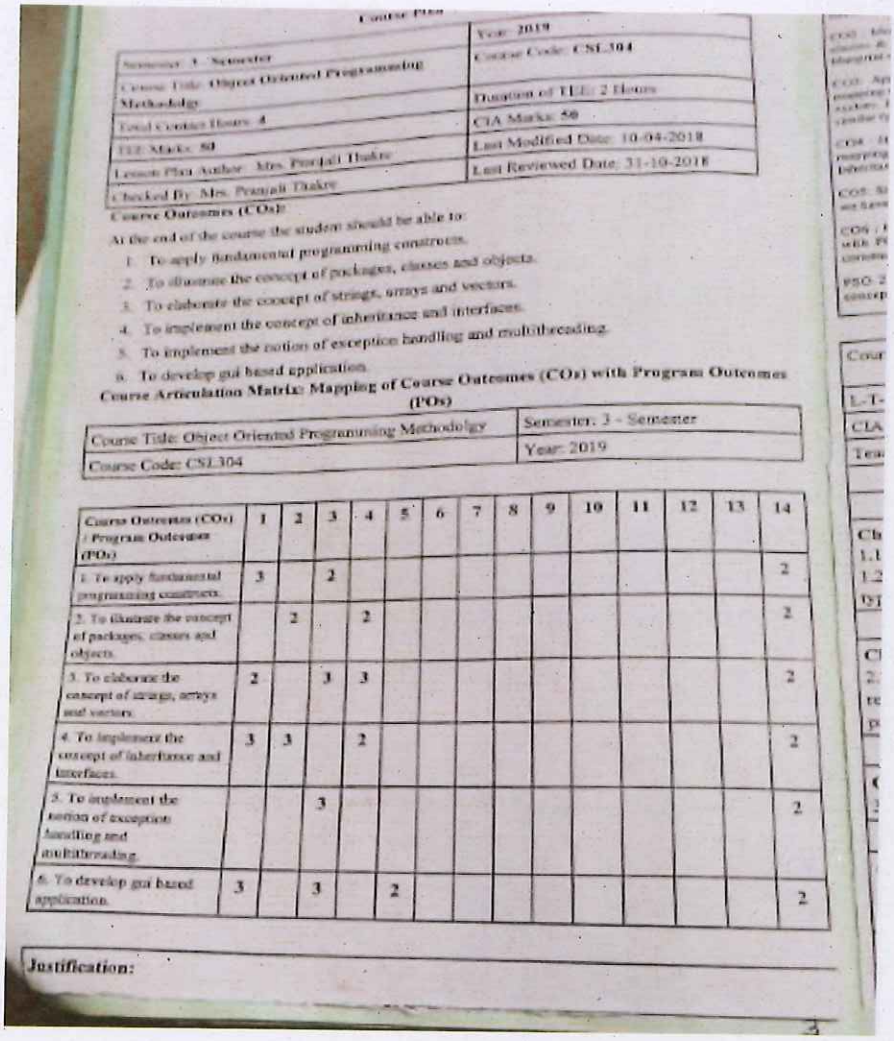
CO s on Facullty's Handbook



Course Plan

Semester: 3 - Semester	Year: 2019
Course Title: Object Oriented Programming Methodology	Course Code: CSL304
Total Contact Hours: 4	Duration of TEE: 2 Hours
TEE Marks: 80	CIA Marks: 50
Lesson Plan Author: Mrs. Pranjali Thakre	Last Modified Date: 10-04-2018
Checked By: Mrs. Pranjali Thakre	Last Reviewed Date: 31-10-2018

Course Outcomes (COs):

At the end of the course the student should be able to:

1. To apply fundamental programming constructs.
2. To illustrate the concept of packages, classes and objects.
3. To elaborate the concept of strings, arrays and vectors.
4. To implement the concept of inheritance and interfaces.
5. To implement the notion of exception handling and multithreading.
6. To develop gui based application.

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs)

Course Title: Object Oriented Programming Methodology	Semester: 3 - Semester
Course Code: CSL304	Year: 2019

Course Outcomes (COs) / Program Outcomes (POs)	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. To apply fundamental programming constructs.	3		2											2
2. To illustrate the concept of packages, classes and objects.		2		2										2
3. To elaborate the concept of strings, arrays and vectors.	2		3	3										2
4. To implement the concept of inheritance and interfaces.	3	3		2										2
5. To implement the notion of exception handling and multithreading.			3											2
6. To develop gui based application.	3		3		2									2

Justification:

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PSO shown during PTM Presentation

About Department

PEO

- ✓ To prepare Learner's with a sound foundation in the mathematical, scientific and engineering fundamentals
- ✓ To prepare Learner's to use effectively modern tools to solve real life problems
- ✓ To equip Learner's with broad education necessary to understand the impact of computer Technology in a global and social context
- ✓ To encourage, motivate and prepare Learner's for Lifelong-learning
- ✓ To inculcate professional and ethical attitude, good leadership qualities and commitment to social responsibilities.
- ✓ To meet the interdisciplinary requirement of the industry and overall academic needs of society.

PSO

- ✓ To enhance interdisciplinary skills in comp engineering students for integrating hardware and software technologies. Robotics, IOT project
- ✓ The ability to employ modern computer languages, environments, and platforms using open-ended programming environments in software development

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Department of Mechanical Engineering

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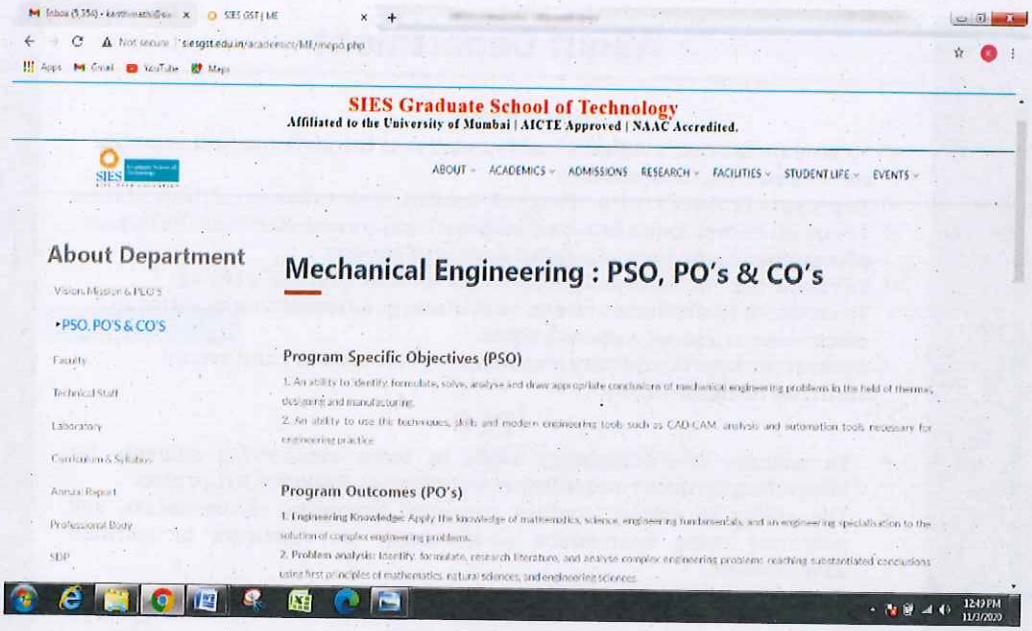
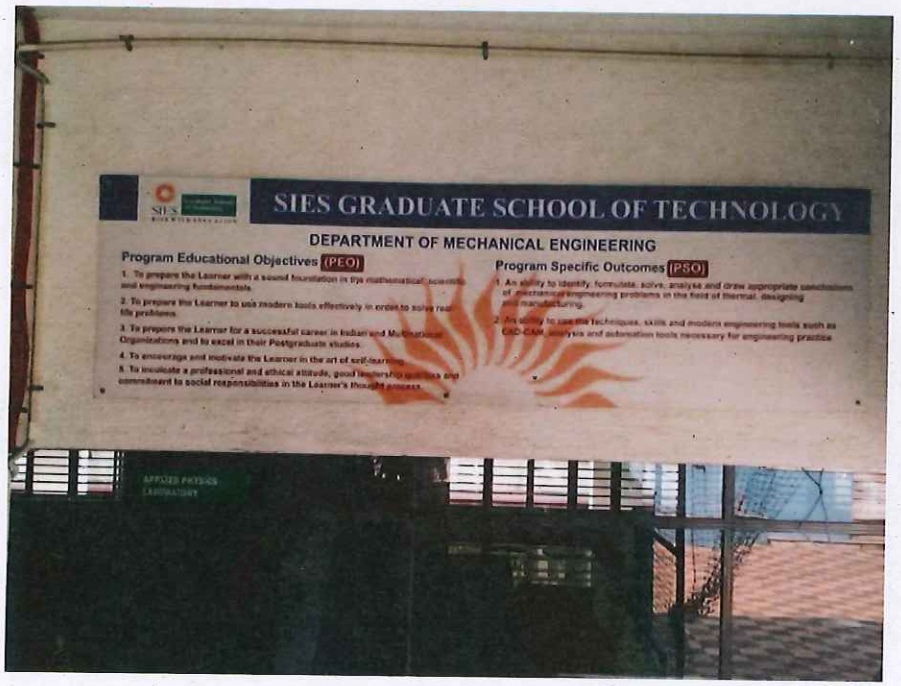


PSO display on Department Entrance (on wall)



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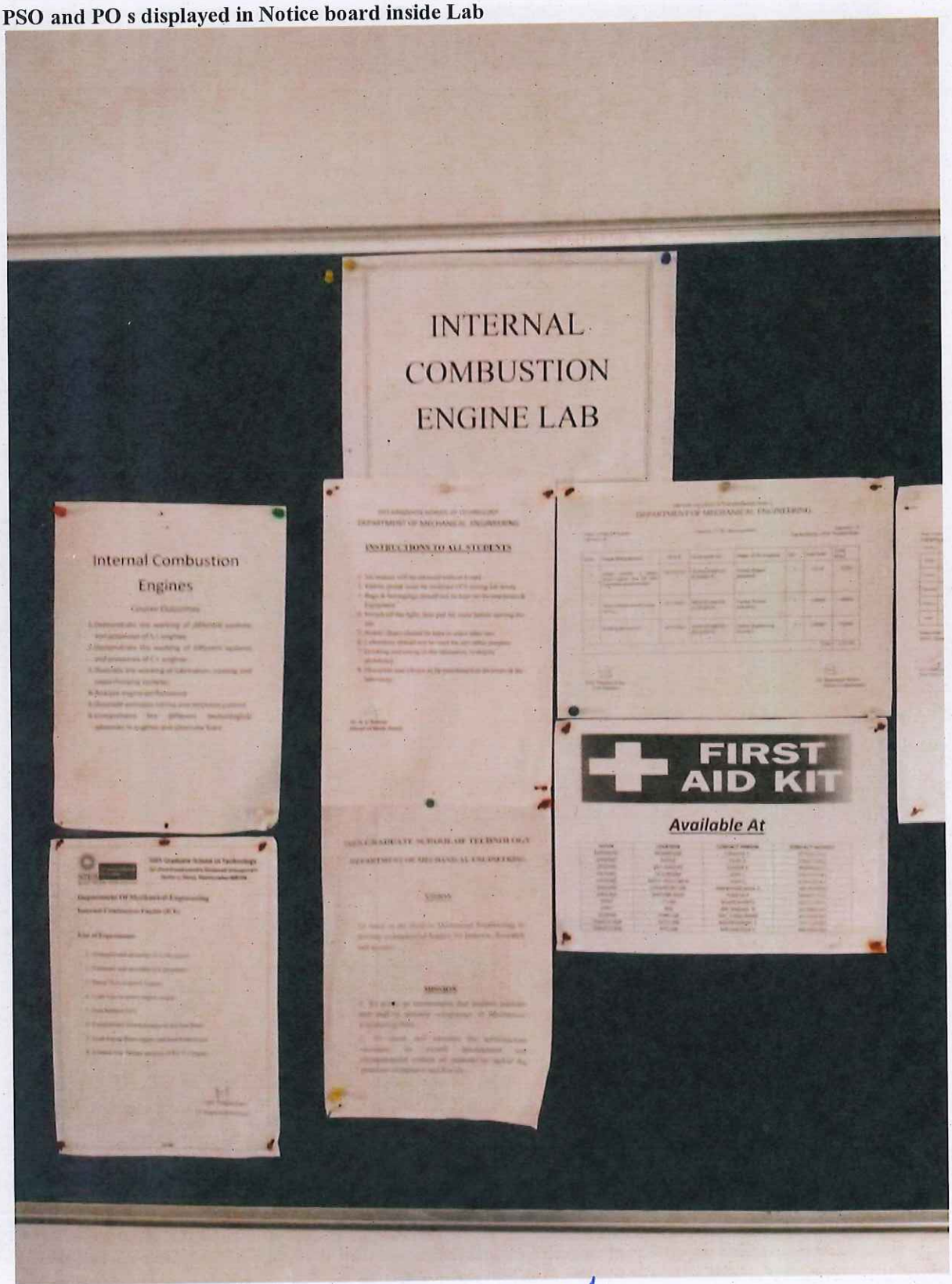

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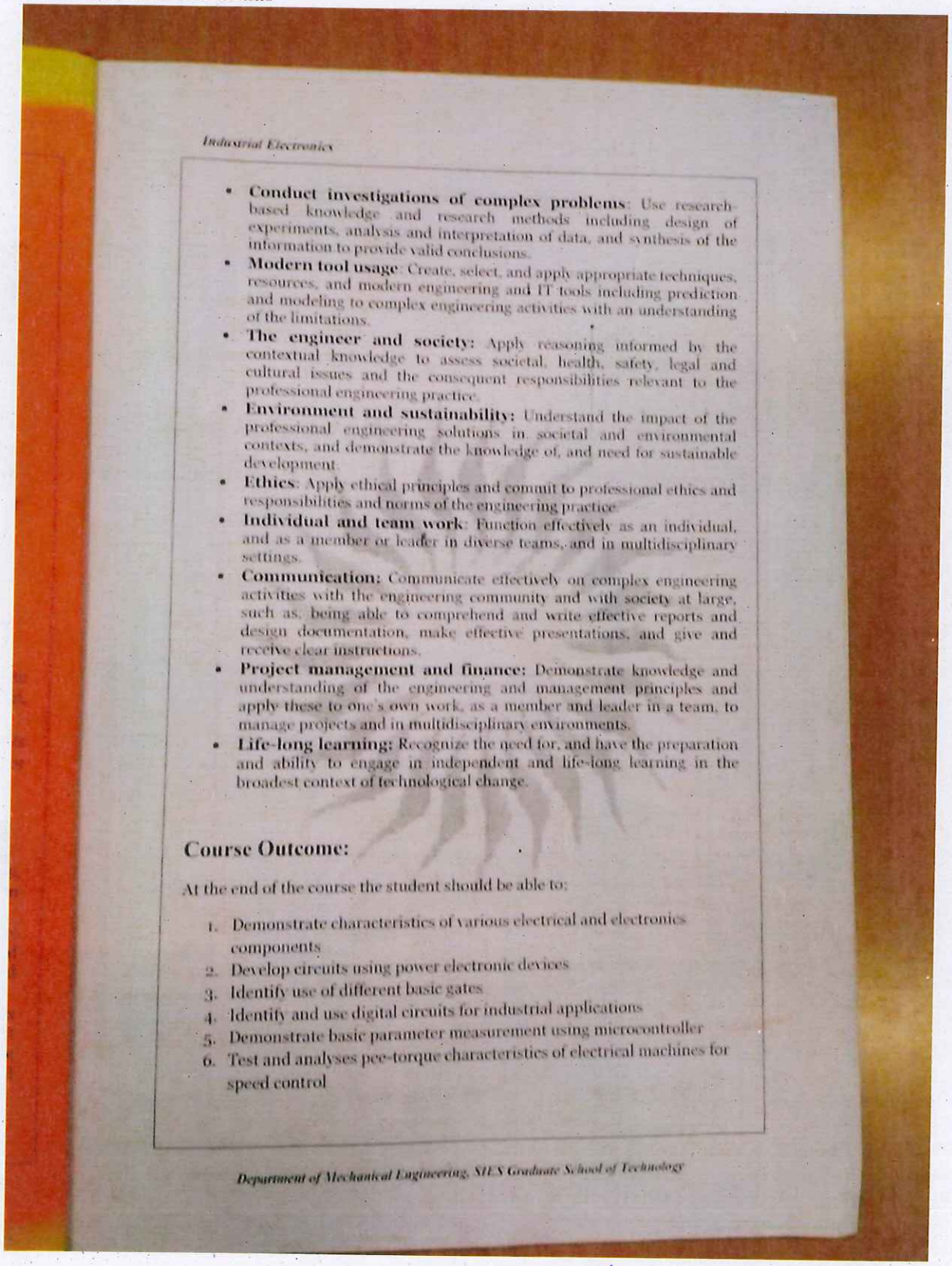
PO & CO on lab manual



- **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.
- **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.
- **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.
- **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.
- **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **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.
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- **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.

Course Outcome:

At the end of the course the student should be able to:

1. Demonstrate characteristics of various electrical and electronics components
2. Develop circuits using power electronic devices
3. Identify use of different basic gates
4. Identify and use digital circuits for industrial applications
5. Demonstrate basic parameter measurement using microcontroller
6. Test and analyses pee-torque characteristics of electrical machines for speed control

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CO s on Faculty's Handbook

SIES

DEPARTMENT OF MECHANICAL ENGINEERING

Course Plan

Semester: 4 - Semester	Year: FH2020
Course Title: FLUID MECHANICS	Course Code: MEC402
Total Contact Hours: 48	Duration of TEE: 3 Hours
TEE Marks: 80 + 25 = 115	CIA Marks: 20 + 25 = 45
Lesson Plan Author: Onkar Potadar	Last Modified Date: 04.1.2020
Checked By:	Last Reviewed Date: 01.1.2020

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs)

Course Outcomes (COs) / Program Outcomes (POs)	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2
Define properties of fluids and compare types of fluid	2	2	2										2	
Evaluate hydrostatic forces on various surfaces and predict stability of floating bodies	2	2	2										2	
Formulate and solve equations of the control volume for	2	2	2										2	

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PSO shown during PTM Presentation

PROGRAMME SPECIFIC OBJECTIVES

- *An ability to identify, formulate, solve, analyse and draw appropriate conclusions of mechanical engineering problems in the field of thermal, designing and manufacturing.*
- *An ability to use the techniques, skills and modern engineering tools such as CAD-CAM, analysis and automation tools necessary for engineering practice.*

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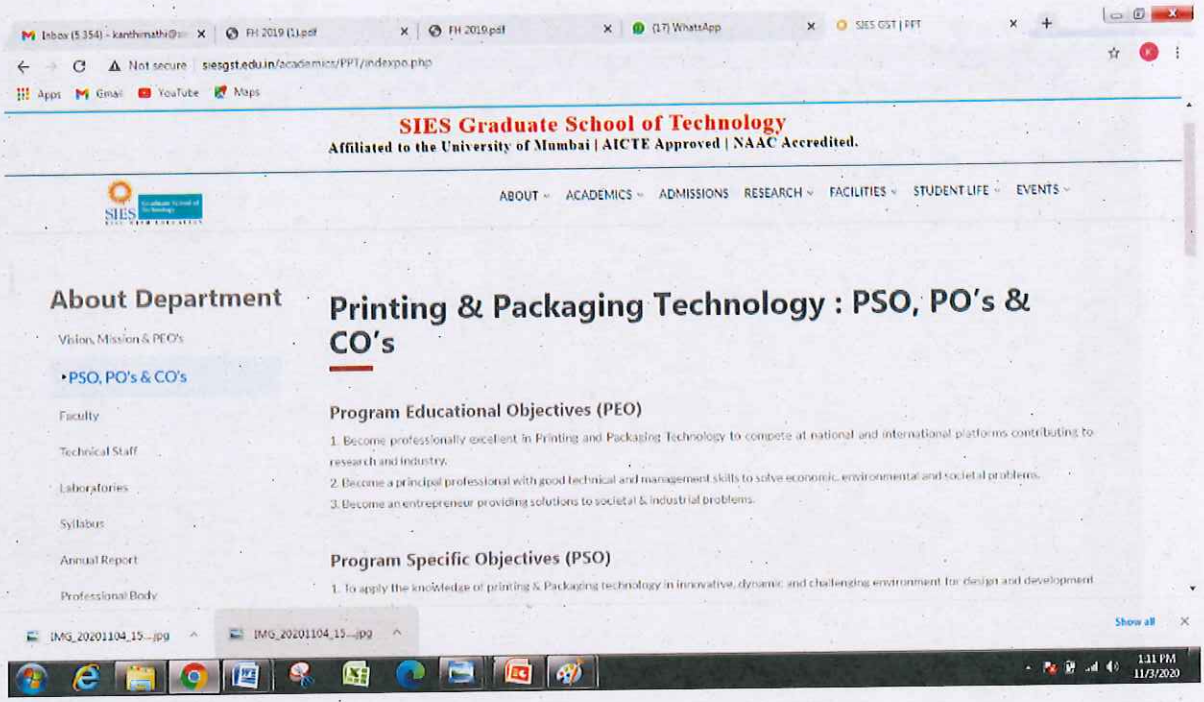
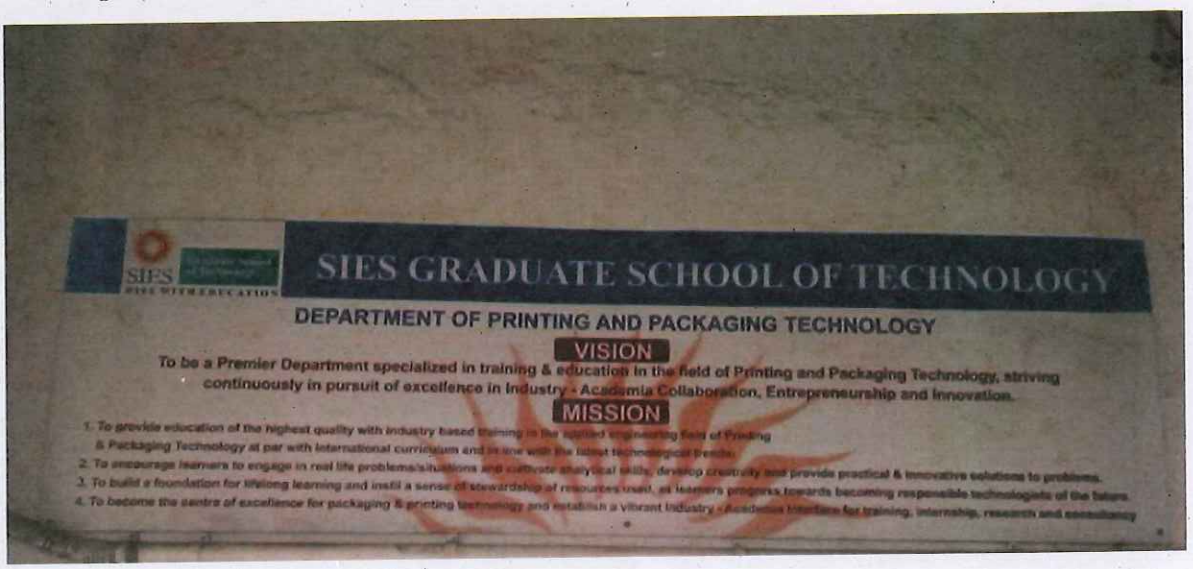
Department of Printing and Packaging Technology

Display on website



PSO display on Department Entrance (on wall)



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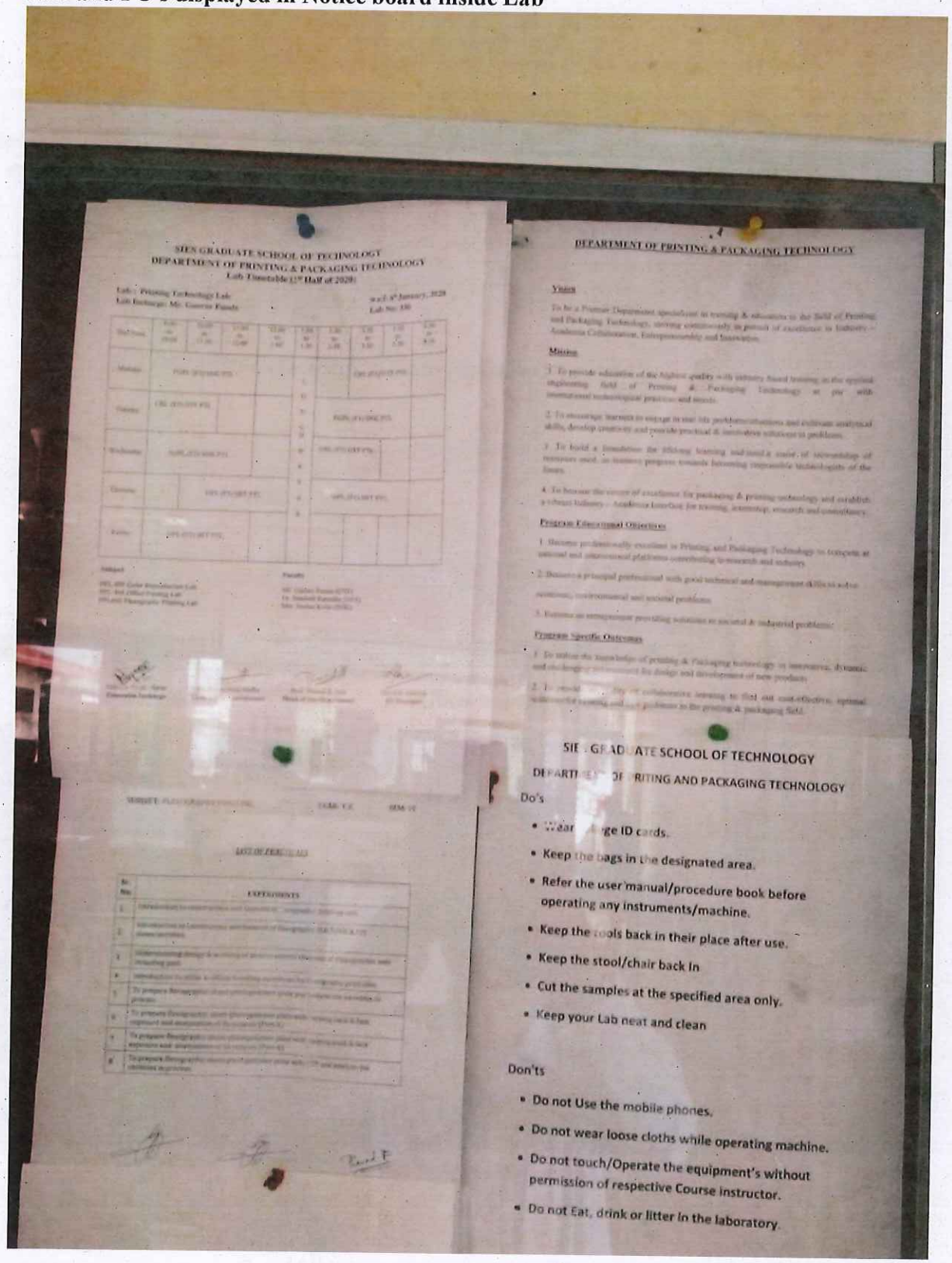
PSO and PO s displayed in Notice board inside Lab



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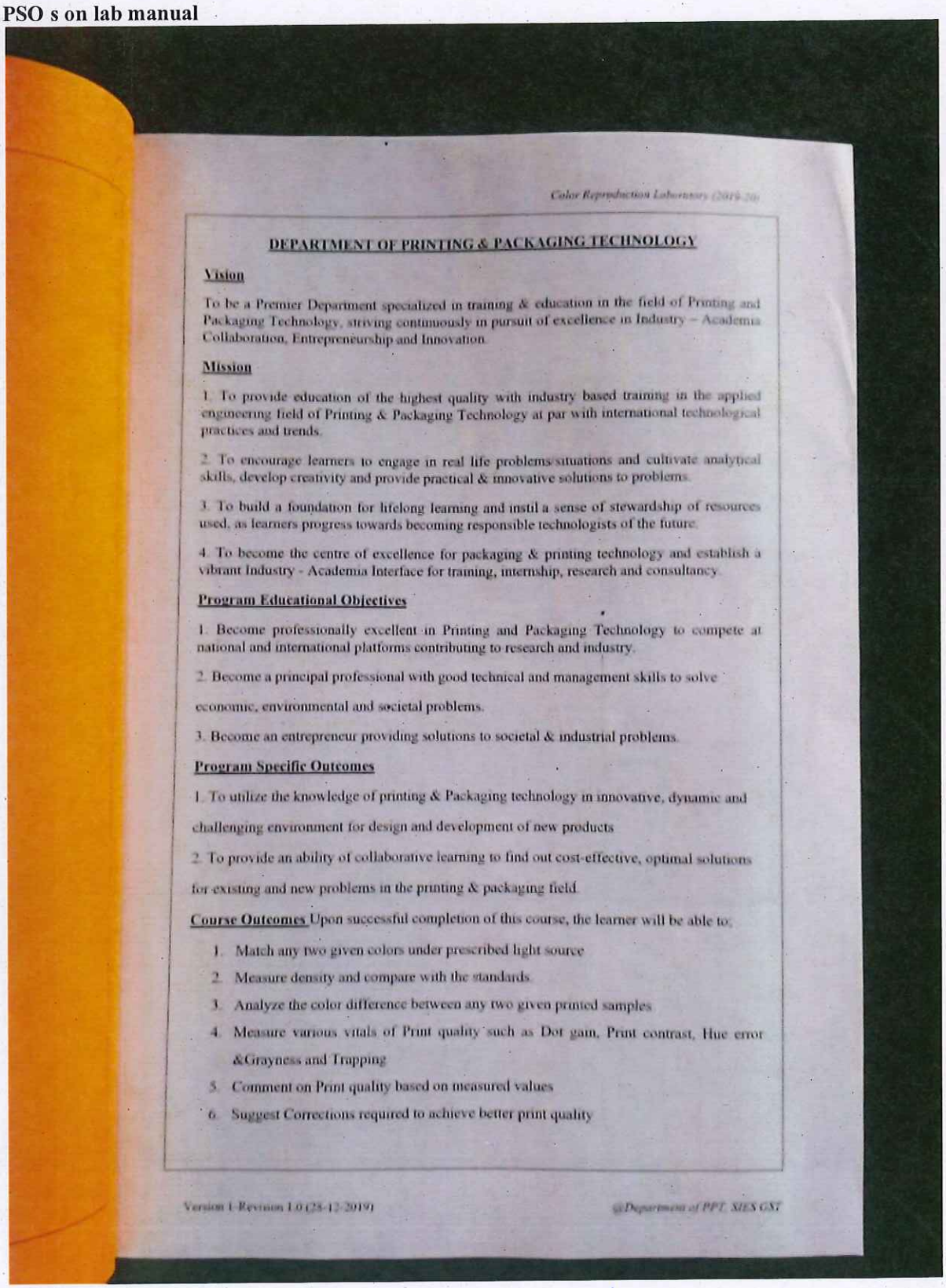
PSO s on lab manual



DEPARTMENT OF PRINTING & PACKAGING TECHNOLOGY

Vision

To be a Premier Department specialized in training & education in the field of Printing and Packaging Technology, striving continuously in pursuit of excellence in Industry – Academia Collaboration, Entrepreneurship and Innovation.

Mission

1. To provide education of the highest quality with industry based training in the applied engineering field of Printing & Packaging Technology at par with international technological practices and trends.

2. To encourage learners to engage in real life problems/situations and cultivate analytical skills, develop creativity and provide practical & innovative solutions to problems.

3. To build a foundation for lifelong learning and instil a sense of stewardship of resources used, as learners progress towards becoming responsible technologists of the future.

4. To become the centre of excellence for packaging & printing technology and establish a vibrant Industry - Academia Interface for training, internship, research and consultancy.

Program Educational Objectives

1. Become professionally excellent in Printing and Packaging Technology to compete at national and international platforms contributing to research and industry.

2. Become a principal professional with good technical and management skills to solve economic, environmental and societal problems.

3. Become an entrepreneur providing solutions to societal & industrial problems.

Program Specific Outcomes

1. To utilize the knowledge of printing & Packaging technology in innovative, dynamic and challenging environment for design and development of new products

2. To provide an ability of collaborative learning to find out cost-effective, optimal solutions for existing and new problems in the printing & packaging field.

Course Outcomes Upon successful completion of this course, the learner will be able to:

1. Match any two given colors under prescribed light source
2. Measure density and compare with the standards
3. Analyze the color difference between any two given printed samples
4. Measure various vitals of Print quality such as Dot gain, Print contrast, Hue error &Grayness and Trapping
5. Comment on Print quality based on measured values
6. Suggest Corrections required to achieve better print quality

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