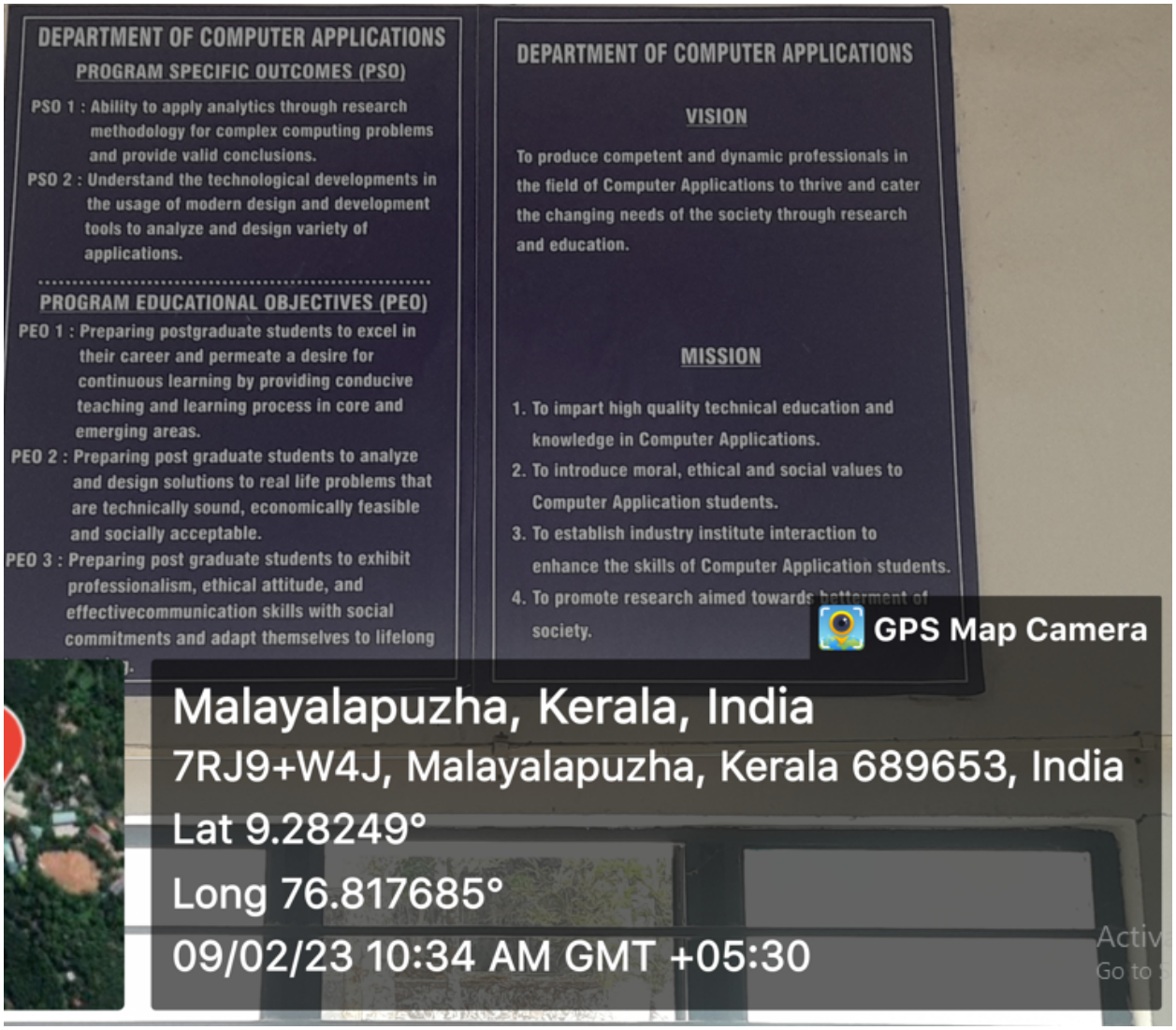
2.6 Student Performance and Learning Outcomes

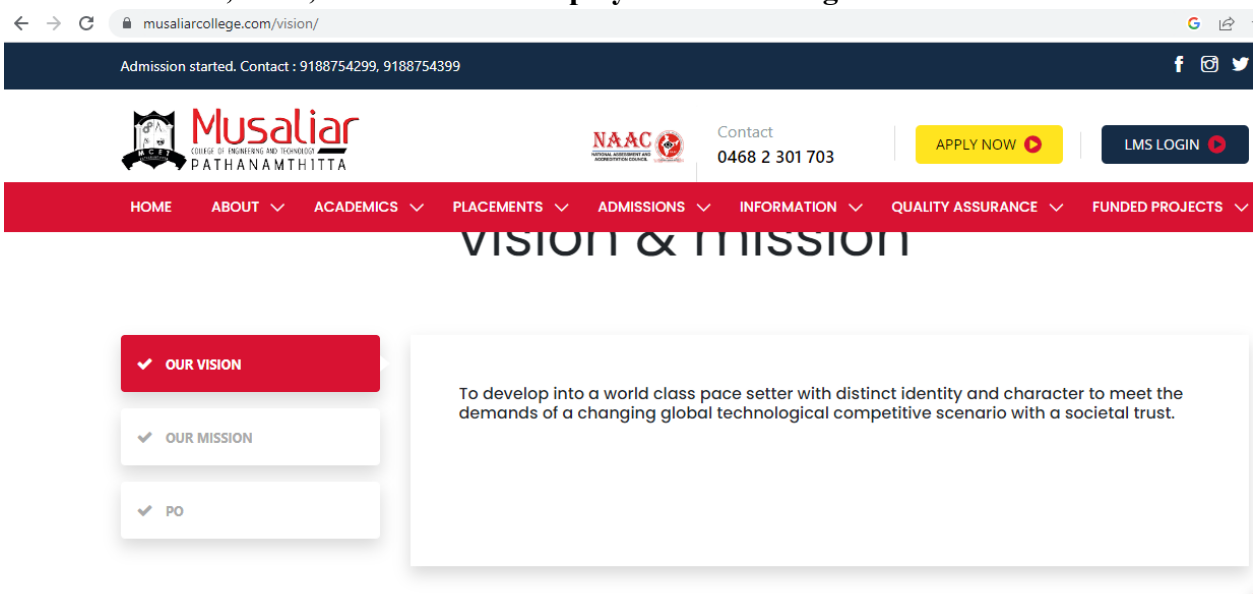
2.6.1 Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

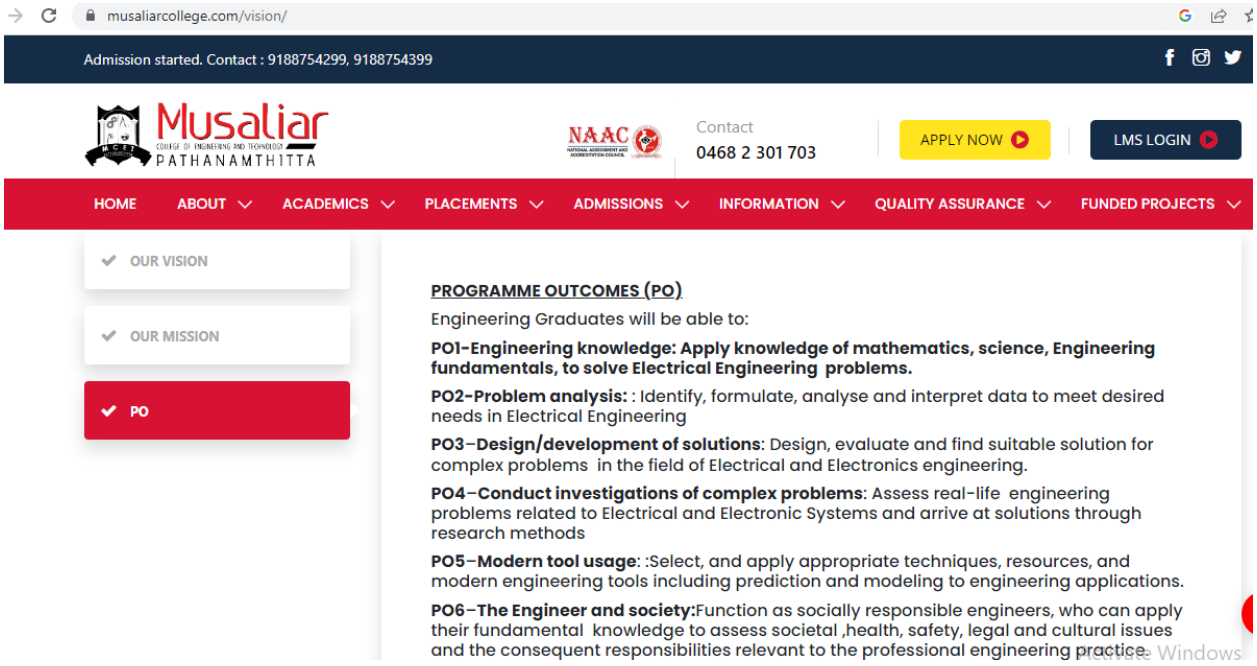
1. POs, PEOs and PSOs Displayed in Departments and various part of the Campus

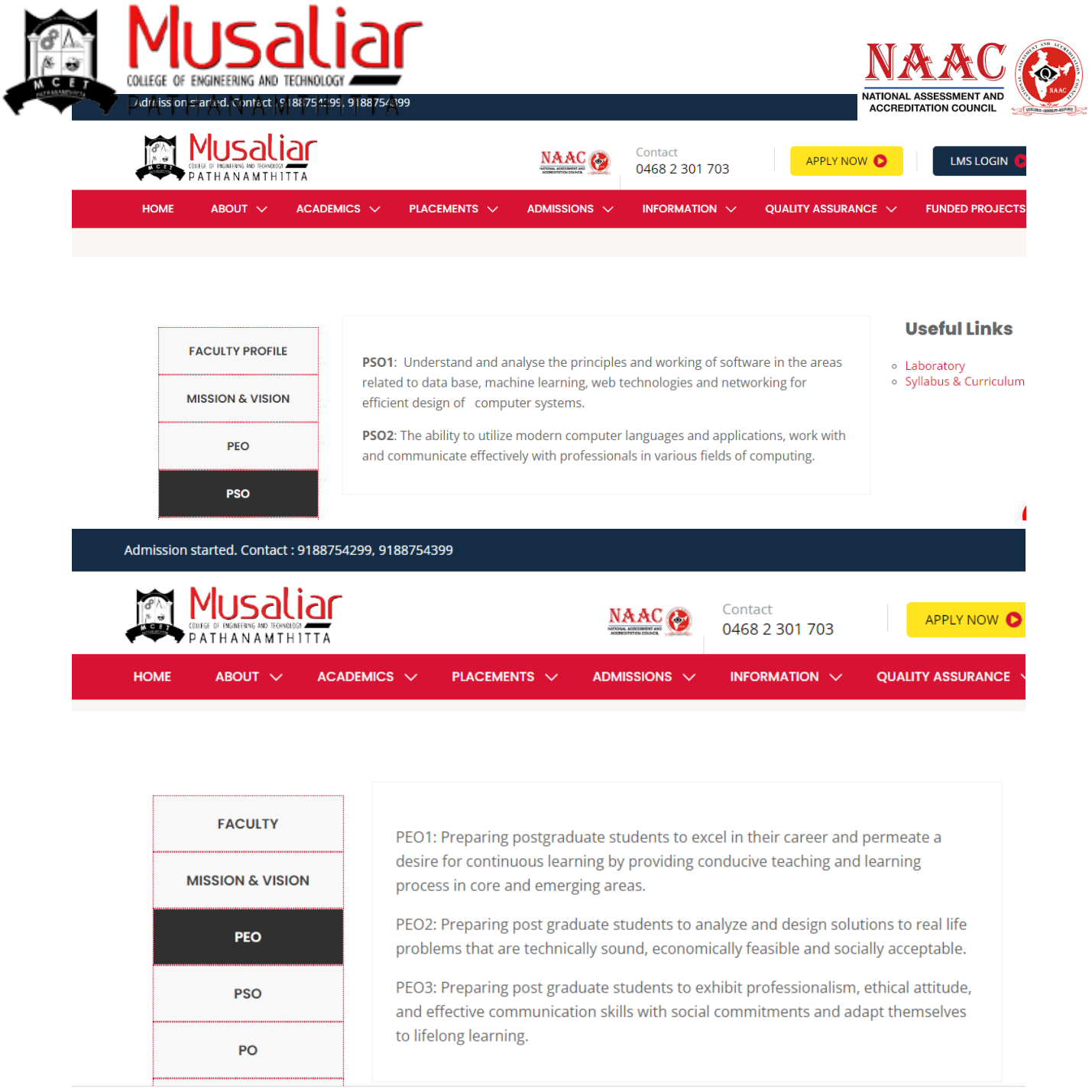



DEPARTMENT OF COMPUTER APPLICATIONS
PROGRAM OUTCOMES (PO)
PO 1 : COMPUTATIONAL KNOWLEDGE - Apply knowledge of computing, mathematics, principles of accounting, management and fundamentals of software engineering appropriate to the discipline.
PO 2 : PROBLEM ANALYSIS – Identify and analyze problems and formulate the requirements appropriate to its solution.
PO 3 : DESIGN DEVELOPMENT OF SOLUTIONS – Design, implement and evaluate a computer based system to meet the desired needs.
PO 4 : CONDUCT INVESTIGATIONS OF COMPLEX COMPUTING PROBLEMS – Conduct investigations and experiments to analyze and interpret data of complex applications to find valid solutions.
PO 5 : MODERN TOOL USAGE – Select and apply current trends, techniques and modern tools that suit the computing requirements.
PO 6 : PROFESSIONAL ETHICS - Understand professional, ethical, security and social issues, work with appropriate societal and environmental considerations.
PO 7 : LIFELONG LEARNING - Build up the passion for continuing professional development.
PO 8 : PROJECT MANAGEMENT AND FINANCE - Incorporate scientific, financial and management principles for the development of feasible projects.
PO 9 : COMMUNICATION EFFICACY - Communicate effectively across multidisciplinary teams to accomplish a common goal.
PO 10 : SOCIETAL AND ENVIRONMENTAL CONCERN - Develop systems that meet the desired solutions considering societal and environmental factors.
PO 11 : INDIVIDUAL AND TEAM WORK - Work individually and in teams for the fulfilment of the desired task.
PO 12 : INNOVATION AND ENTREPRENEURSHIP - Create a culture that focus on Innovation and Entrepreneurship.
GPS Map Camera
Malayalapuzha, Kerala, India
7RM9+33J, Malayalapuzha, Kerala, India
Lat 9.282474°
Long 76.81767°

2.Proofs for POs,PSOs,PEOs and COs displayed on the college website






Musaliar
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PATHANAMTHITTA
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QUALITY ASSURANCE
FUNDED PROJECTS
FACULTY PROFILE
MISSION & VISION
PEO
PSO
PSO1: Understand and analyse the principles and working of software in the areas related to data base, machine learning, web technologies and networking for efficient design of computer systems.
PSO2: The ability to utilize modern computer languages and applications, work with and communicate effectively with professionals in various fields of computing.
Useful Links
Laboratory
Syllabus & Curriculum
Admission started. Contact : 9188754299, 9188754399
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FACULTY
MISSION & VISION
PEO
PSO
PO
PEO1: Preparing postgraduate students to excel in their career and permeate a desire for continuous learning by providing conducive teaching and learning process in core and emerging areas.
PEO2: Preparing post graduate students to analyze and design solutions to real life problems that are technically sound, economically feasible and socially acceptable.
PEO3: Preparing post graduate students to exhibit professionalism, ethical attitude, and effective communication skills with social commitments and adapt themselves to lifelong learning.

3.Sample COs and CO-PO Mapping in the university syllabus

EST 130	BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING	CATEGORY	L	T	P	CREDIT	YEAR OF INTRODUCTION
		ESC	4	0	0	4	2019

Preamble:

This course aims to (1) equip the students with an understanding of the fundamental principles of electrical engineering(2) provide an overview of evolution of electronics, and introduce the working principle and examples of fundamental electronic devices and circuits (3) provide an overview of evolution of communication systems, and introduce the basic concepts in radio communication.

Prerequisite: Physics and Mathematics (Pre-university level)

Course Outcomes: After the completion of the course the student will be able to

CO 1	Apply fundamental concepts and circuit laws to solve simple DC electric circuits
CO 2	Develop and solve models of magnetic circuits
CO 3	Apply the fundamental laws of electrical engineering to solve simple ac circuits in steady state
CO 4	Describe working of a voltage amplifier
CO 5	Outline the principle of an electronic instrumentation system
CO 6	Explain the principle of radio and cellular communication

Mapping of course outcomes with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	-	-	-	-	-	-	-	-	-	2
CO 2	3	1	-	-	-	-	-	-	-	-	-	2
CO 3	3	1	-	-	-	-	-	-	-	-	-	2
CO 4	2	-	-	-	-	-	-	-	-	-	-	-
CO 5	2	-	-	-	-	-	-	-	-	-	-	2
CO 6	2	-	-	-	-	-	-	-	-	-	-	2

Assessment Pattern

SEMESTER – I

20MCA101	MATHEMATICAL FOUNDATIONS FOR COMPUTING	CATEGORY	L	T	P	CREDIT
		GENERAL	3	1	0	4

Preamble: This course introduces students to some basic mathematical ideas and tools which are at the core of MCA course. It introduces the concepts of graph theory, set theory and statistics.

Prerequisite: A basic course in set theory and statistics.

Course Outcomes: After the completion of the course the student will be able to

CO 1	Understand mathematical reasoning in order to read, comprehend and construct mathematical arguments
CO 2	Count or enumerate objects and solve counting problems and analyze algorithms
CO 3	Solve problems in almost every conceivable discipline using graph models
CO 4	Solve the linear system of equations and Calculate the eigen values and eigen vectors of matrices.
CO 5	Apply the principles of correlation and regression in practical problems.

Mapping of course outcomes with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3			3					
CO 2	3	3	3	3			3					
CO 3	3	3	3	3			3					
CO 4	3	3	3	3			3					
CO 5	3	3	3	3			3					

EST 120	BASICS OF CIVIL & MECHANICAL ENGINEERING	CATEGORY	L	T	P	CREDIT	YEAR OF INTRODUCTION
		ESC	4	0	0	4	2019

Preamble:

Objective of this course is to provide an insight and inculcate the essentials of Civil Engineering discipline to the students of all branches of Engineering and to provide the students an illustration of the significance of the Civil Engineering Profession in satisfying the societal needs.

To introduce the students to the basic principles of mechanical engineering

Prerequisite: NIL

Course Outcomes: After completion of the course, the student will be able to

CO 1	Recall the role of civil engineer in society and to relate the various disciplines of Civil Engineering.
CO 2	Explain different types of buildings, building components, building materials and building construction
CO 3	Describe the importance, objectives and principles of surveying.
CO 4	Summarise the basic infrastructure services MEP, HVAC, elevators, escalators and ramps
CO 5	Discuss the Materials, energy systems, water management and environment for green buildings.
CO 6	Analyse thermodynamic cycles and calculate its efficiency
CO 7	Illustrate the working and features of IC Engines
CO 8	Explain the basic principles of Refrigeration and Air Conditioning
CO 9	Describe the working of hydraulic machines
CO 10	Explain the working of power transmission elements
CO 11	Describe the basic manufacturing, metal joining and machining processes

Mapping of course outcomes with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	3	-	-	-	-	3	2	2	-	-	-	-
CO2	3	2	-	1	3	-	-	3	-	-	-	-
CO3	3	2	-	-	3	-	-	-	2	-	-	-