

# MASTER OF ELECTRICAL AND ELECTRONICS ENGINEERING

## Programme Modules (Full-Time - 1 year)

CODE	SUBJECT			Module 1	Module 2	Module 3	
	<b>Core Subjects</b>			Credit Hour			
C1	Engineering Optimization			4			
C2	Device Processing and Fabrication			4			
C3	System Management			4			
C4	Power Electronics and Electrical Machines				4		
C5	Semiconductor Physics and Materials				4		
L1	Independent Study					1	
	<b>Specialized Subjects</b>						
S1	<b>Photonic Track</b>	<b>Microelectronics Track</b>	<b>Electric Energy Management Track</b>				
	Solid State Lighting	VLSI Design	Energy Monitoring and Auditing	3			
S2	Photovoltaic Devices and Systems	Embedded System Design	Energy Management in Industry		3		
S3	Optical Communication Systems	Integrated Circuit Design	Design of ON and OFF Grid PV Systems		3		
S4	Electives	Electives	Energy Policy, Regulations and Standards			3	
	<b>University Subject</b>						
RM	Research Methodology			3			
Project					4	4	
	TOTAL CREDIT HOUR			18	18	8	44

# MASTER OF ELECTRICAL AND ELECTRONICS ENGINEERING

## Programme Modules (Part-Time - 2 years)

CODE	SUBJECT	Module 1	Module 2	Module 3	Module 4	Module 5	Module 6		
	<b>Core</b>	Credit Hour							
C1	Engineering Optimization	4							
C2	Device Processing and Fabrication	4							
C3	System Management				4				
C4	Power Electronics and Electrical Machines		4						
C5	Semiconductor Physics and Materials		4						
L1	Independent Study			1					
	<b>Specialized Subjects</b>								
S1	<b>Photonic Track</b>	<b>Microelectronics Track</b>	<b>Electric Energy Management Track</b>						
	Solid State Lighting	VLSI Design	Energy Monitoring and Auditing	3					
S2	Photovoltaic Devices and Systems	Embedded System Design	Energy Management in Industry		3				
S3	Optical Communication Systems	Integrated Circuit Design	Design of ON and OFF Grid PV Systems				3		
S4	Electives	Electives	Energy Policy, Regulations and Standards			3			
	<b>University Subject</b>								
RM	Research Methodology				3				
Project						4	4		
	<b>TOTAL CREDIT HOUR</b>	<b>11</b>	<b>11</b>	<b>4</b>	<b>7</b>	<b>7</b>	<b>4</b>	<b>44</b>	

# MASTER OF ELECTRICAL AND ELECTRONICS ENGINEERING

## List of Subjects

Core Subjects	Specialized Subjects	University Subject	Project with Report
<ul style="list-style-type: none"> <li>• C<sub>1</sub> - Engineering Optimization</li> <li>• C<sub>2</sub> - Device Processes and Fabrication</li> <li>• C<sub>3</sub> - System Management</li> <li>• C<sub>4</sub> – Power Electronics and Electrical Machines</li> <li>• C<sub>5</sub> - Semiconductor Physics and Materials</li> </ul>	<p><b>Photonic Specialization:</b></p> <ul style="list-style-type: none"> <li>• Solid State Lighting</li> <li>• Photovoltaic Devices and Systems</li> <li>• Optical Communication Systems</li> <li>• Elective</li> </ul> <p><b>Microelectronics Specialization:</b></p> <ul style="list-style-type: none"> <li>• VLSI Design</li> <li>• Embedded System Design</li> <li>• Integrated Circuit Design</li> <li>• Elective</li> </ul> <p><b>Electric Energy Management</b></p> <ul style="list-style-type: none"> <li>• Energy Monitoring and Auditing</li> <li>• Energy Management in Industry</li> <li>• Design of ON and OFF Grid PV Systems</li> <li>• Energy Policy, Regulations and Standards</li> </ul>	<ul style="list-style-type: none"> <li>• Research Methodology</li> </ul>	<ul style="list-style-type: none"> <li>• Project Parts 1 and 2</li> </ul>