

# MEEE Course Structure (Full Time, July<sup>1</sup> Intake)

SUBJECTS			T1 (Jul – Oct)	T2 (Nov – Mar)	T3 (Apr – Jun)
<b>Core Subjects</b>					
EEE7216 Engineering Optimization			4		
EEE7226 Quality System Management			4		
EEE7236 Power Electronics and Electrical Machines				4	
EEE7266 Independent Study					1
EEE7116 Research Methodology			3		
ETS7026 Project				5	5
<b>Specialization (Choose One Track)</b>					
<b>Photonic Track <sup>2</sup></b>	<b>Microelectronics Track <sup>2</sup></b>	<b>Electric Energy Management Track <sup>2</sup></b>			
EEE7366 Solid State Lighting Technology	EEE7396 VLSI Design	EEE7296 Energy Monitoring and Auditing	3		
EEE7346 Photovoltaic Devices and Systems	EEE7416 Embedded System Design	EEE7286 Energy Management in Industry		3	
EEE7326 Optical Communication Systems	EEE7386 Integrated Circuit Design	EEE7276 Design of ON and OFF Grid PV Systems		3	
Elective <sup>3</sup>	Elective <sup>3</sup>	EEE7316 Energy Policy, Regulations and Standards			3
<b>Electives (Choose one subject each from A and B) <sup>2</sup></b>					
<b>A</b>	EEE7256 Device Processing and Fabrication		4		
	EEE7318 Electromagnetic Field & Circuit Theory		4		
<b>B</b>	EEE7026 Semiconductor Physics and Materials			4	
	EEE7317 Power System and High Voltage Technology			4	
<b>TOTAL (46 credit hours)</b>			<b>18</b>	<b>19</b>	<b>9</b>

<sup>1</sup> For Nov and Apr intakes, the sequence would be T2-T3-T1 and T3-T1-T2, respectively, except for Research Methodology and Project, which should be taken in chronological order.

<sup>2</sup> Availability subject to change.

<sup>3</sup> Choose one subject from the other specialization tracks.

# MEEE Course Structure (Part Time, July<sup>1</sup> Intake)

SUBJECTS			Year 1			Year 2		
			T1 (Jul – Oct)	T2 (Nov – Mar)	T3 (Apr – Jun)	T1 (Jul – Oct)	T2 (Nov – Mar)	T3 (Apr – Jun)
<b>Core Subjects</b>								
EEE7216 Engineering Optimization			4					
EEE7226 Quality System Management						4		
EEE7236 Power Electronics and Electrical Machines				4				
EEE7266 Independent Study					1			
ERM7116 Research Methodology						3		
ETS7026 Project							5	5
<b>Specialization (Choose One Track)</b>								
<b>Photonic Track <sup>2</sup></b>	<b>Microelectronics Track <sup>2</sup></b>	<b>Electric Energy Management Track <sup>2</sup></b>						
EEE7366 Solid State Lighting	EEE7396 VLSI Design	EEE7296 Energy Monitoring and Auditing	3					
EEE7346 Photovoltaic Devices and Systems	EEE7416 Embedded System Design	EEE7286 Energy Management in Industry		3				
EEE7326 Optical Communication Systems	EEE7386 Integrated Circuit Design	EEE7276 Design of ON and OFF Grid PV Systems					3	
Elective <sup>3</sup>	Elective <sup>3</sup>	EEE7316 Energy Policy, Regulations and Standards			3			
<b>Electives (Choose one subject each from A and B) <sup>2</sup></b>								
<b>A</b>	EEE7256 Device Processing and Fabrication		4					
	EEE7318 Electromagnetic Field and Circuit Theory		4					
<b>B</b>	EEE7026 Semiconductor Physics and Materials			4				
	EEE7317 Power System and High Voltage Technology			4				
<b>TOTAL (46 credit hours)</b>			<b>11</b>	<b>11</b>	<b>4</b>	<b>7</b>	<b>8</b>	<b>5</b>

<sup>1</sup> For Nov and Apr intakes, the sequence would be T2-T3-T1 and T3-T1-T2, respectively, except for Research Methodology and Project, which should be taken in chronological order.

<sup>2</sup> Availability subject to change.

<sup>3</sup> Choose one subject from the other specialization tracks.