

# MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### PSO-Mapping

#### 4th Year

**Subject Name** Embedded Systems

**Subject Code** ETEC 401

	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	2	1	-	-	-	-	-	-	-	2	-	1
CO2	2	1	-	-	-	-	-	-	-	2	-	2
CO3	2	1	1	2	2	-	2	-	-	2	-	1
CO4	-	1	1	2	2	-	2	-	-	2	-	1
<b>Average</b>	2	1	1	2	2	-	2	-	-	2	-	1.25

#### 4th Year

**Subject Name** Human Values

**Subject Code** ETHS 402

CO	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	1	2	2	1	1	1	2	1	2	-	-	1
CO2	1	2	3	1	2	1	2	1	-	-	-	2
CO3	1	3	2	1	1	1	2	1	-	-	-	2
CO4	1	2	2	1	-	1	1	2	2	-	-	-
<b>Average</b>	1	2.25	2.25	1	1.34	1	1.75	1.25	2	-	-	1.67

**4th Year****Subject Name** Mobile Computing**Subject Code** ETIT 402

	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	2	2	2	3	-	-	-	-	-	-	2
CO2	3	2	2	2	2	-	-	-	1	2	1	3
CO3	3	2	2	-	2	-	2	-	2	2	1	3
CO4	3	3	2	2	3	2	2	3	2	2	2	3
<b>Average</b>	3	2.25	2	2	2.5	2	2	3	1.67	2	1.34	2.75

**4th Year****Subject Name** Optoelectronics and Optical Communication**Subject Code** ETEC 403

	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	2	2	1	1	1	2	2	1	1	2	2
CO2	3	1	2	1	1	2	1	1	1	2	2	2
CO3	3	1	1	1	1	-	2	-	1	1	1	2
CO4	2	1	1	1	-	-	2	1	1	1	1	2
<b>Average</b>	2.75	1.25	1.5	1	1	1.5	1.75	1.34	1	1.25	1.5	2

**4th Year****Subject Name** Satellite Communication**Subject Code** ETEC 404

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2	2	2	2	1	-	1	2	1	3
CO2	2	3	2	2	2	-	1	-	-	2	2	3
CO3	3	3	2	2	2	-	-	-	-	3	1	3
CO4	1	1	2	1	1	3	2	2	1	3	2	3
<b>Average</b>	2.25	2.5	2	1.75	1.75	2.5	1.34	2	1	2.5	1.5	3

---

**4th Year****Subject Name** Wireless Communication**Subject Code** ETEC-405

	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	2	3	3	-	1	1	1	1	-	-	1	1
CO2	2	2	1	2	2	-	1	1	-	2	1	1
CO3	2	3	3	2	-	1	1	1	-	-	-	1
CO4	1	3	3	1	3	-	1.5	1.5	-	-	2	3
<b>Average</b>	1.75	2.75	2.5	1.67	2	1	1.13	1.13	-	2	1.34	1.5

**4th Year****Subject Name** ADHOC AND SENSOR NETWORKS**Subject Code** ETEC -406

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	2	1	1	1	2	-	-	1	-	2
CO2	1	2	3	2	2	1	3	-	-	1	-	1
CO3	2	2	3	2	1	2	3	-	-	2	-	1
CO4	1	2	2	-	1	1	2	1	1	-	1	2
<b>Average</b>	1.5	1.75	2.5	1.67	1.25	1.25	2.5	1	1	1.34	1	1.5

**4th Year****Subject Name** DBMS**Subject Code** ETCS 425

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	3	3	2	3	2	2	2	3	3	3	2
CO2	1	3	3	2	3	2	2	2	3	3	3	2
CO3	1	3	3	2	3	2	2	2	3	3	3	2
CO4	1	3	3	2	3	2	2	2	3	3	3	2
<b>Average</b>	1	3	3	2	3	2	2	2	3	3	3	2

**4th Year****Subject Name** Radar and Navigation**Subject Code** ETEC 419

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2	2	2	2	2	-	-	-	3	2
CO2	2	2	2	3	-	2	2	2	-	2	2	3
CO3	3	2	2	2	2	2	2	-	3	-	-	3
CO4	3	2	2	2	2	2	2	3	2	-	2	2
<b>Average</b>	2.75	2.25	2	2.25	2	2	2	2.5	2.5	2	2.34	2.5

**4th Year****Subject Name** Next Generation Networks**Subject Code** ETEC-428

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	2	2	3	2	3	-	-	1	1	3
CO2	2	3	2	1	3	2	3	-	-	1	2	3
CO3	2	2	2	1	2	2	3	-	-	1	1	2
CO4	2	2	2	2	3	3	3	1	-	2	2	2
<b>Average</b>	2	2.25	2	1.5	2.75	2.25	3	1	-	1.25	1.5	2.5

**4th Year****Subject Name** Mobile Computing Lab**Subject Code** ETEC-454

	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	2	2	2	1	1	1	2	2	2	2	2
CO2	3	3	3	2	2	1	1	2	2	2	2	2
CO3	3	3	3	3	2	1	1	2	2	2	2	2
CO4	3	3	3	3	2	1	1	2	2	2	2	2
<b>Average</b>	3	2.75	2.75	2.5	1.75	1	1	2	2	2	2	2

**4th Year**

**Subject Name** Optical and wireless Communication  
**Subject Code** ETEC 451

CO	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	2	2	2	2	2	2	1	2	1	2	2	2
CO2	2	2	2	2	1	3	2	-	1	2	1	2
CO3	2	1	2	2	-	2	1	2	2	2	2	2
CO4	2	1	1	2	-	2	-	2	2	2	2	2
<b>Average</b>	2	1.5	1.75	2	1.5	2.25	1.34	2	1.5	2	1.75	2

**4th Year**

**Subject Name** Satellite & Antenna Communication Lab  
**Subject Code** ETEC-452

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO12
CO1	2	3	1	2	3	-	-	-	-	2	1	3
CO2	2	2	1	3	3	-	-	-	-	2	-	3
CO3	2	3	2	3	3	-	-	-	-	2	-	3
CO4	3	3	2	3	3	-	-	-	-	3	-	3
<b>Average</b>	2.25	2.75	1.5	2.75	3	-	-	-	-	2.25	1	3

**4th Year**

**Subject Name** Embedded Systems Lab  
**Subject Code** ETEC 453

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO12
CO1	2	1	1	1	1	-	-	-	-	1	-	-
CO2	3	1	1	2	3	-	1	-	-	3	-	-
CO3	3	1	1	2	3	-	1	-	-	3	-	-
CO4	-	-	-	-	-	-	-	-	3	1	-	-
<b>Average</b>	2.67	1	1	1.67	2.34	-	1	-	3	2	-	-

**4th Year****Subject Name** Radar and Navigation Lab**Subject Code** ETEC 455

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	3	3	2	2	-	-	2	-	3	2
CO2	3	3	2	3	3	2	2	1	3	1	3	3
CO3	2	3	3	3	3	2	2	2	2	3	3	2
CO4	3	2	3	3	3	3	2	3	2	2	3	2
<b>Average</b>	2.5	2.75	2.75	3	2.75	2.25	2	2	2.25	2	3	2.25

**4th Year****Subject Name** Seminar**Subject Code** ETEC-457

CO	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	2	2	-	1	1	1	1	-	-	-	-	-
CO2	-	-	-	2	2	2	2	-	1	2	-	2
CO3	2	2	2	2	2	1	1	1	1	1	1	2
CO4	-	-	2	2	2	1	-	-	1	2	-	2
<b>Average</b>	2	2	2	1.75	1.75	1.25	1.34	1	1	1.67	1	2

**4th Year****Subject Name** Minor Project**Subject Code** ETEC-459

CO	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	2	3	3	1	3	2	2	3
CO2	3	3	3	3	3	3	3	1	3	2	2	3
CO3	3	3	3	3	3	3	3	1	3	3	3	3
CO4	3	3	3	3	3	3	3	1	3	3	3	3
<b>Average</b>	3	3	2.75	2.75	2.75	3	3	1	3	2.5	2.5	3

**4th Year****Subject Name Major Project****Subject Code ETEC-460**

CO	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	2	3	3	1	3	2	2	3
CO2	3	3	3	3	3	3	3	1	3	2	2	3
CO3	3	3	3	3	3	3	3	1	3	3	3	3
CO4	3	3	3	3	3	3	3	1	3	3	3	3
<b>Average</b>	3	3	2.75	2.75	2.75	3	3	1	3	2.5	2.5	3

**4th Year****Subject Name Industrial Training****Subject Code ETEC-461**

	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	2	2	2	2	3	2	2	1	2	1	2
CO2	3	2	3	2	2	2	2	3	1	2	1	2
CO3	3	2	3	3	3	3	1	2	3	3	1	3
CO4	3	3	3	3	3	2	2	2	3	2	1	3
<b>Average</b>	3	2.25	2.75	2.5	2.5	2.5	1.75	2.25	2	2.25	1	2.5