### 1.4b

### 5)NEED ANALYSIS FOR SKILL SET AND KNOWLEDGE FOR THE SPECIFIC DISCIPLINE / PROGRAM

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| PEO1 | Successfully pursue professional electronics and communication engineering career working in multidisciplinary area focusing on innovation and entrepreneurship. |
| PEO2 | Pursue higher education |
| PEO3 | Demonstrate societal and ethical responsibility in every domain of life |
| PEO4 | Adapt technological changes with focus on societal and environmental issues |

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| PO’s | | PEO | | | |  |
| PEO1 | PEO2 | PEO3 | PEO4 | |
| PO1 | Apply knowledge of basic mathematics, science and engineering fundamentals and computer engineering specialization to solve engineering problems. | 3 | 2 | - | 1 | |
| PO2 | Identify and analyze well defined engineering problems using codified standard methods. | 3 | 2 | 3 | 2 | |
| PO3 | Design solutions for well-defined technical problems and assist with the design of systems components or processes to meetspecified needs. | 3 | 1 | 2 | 1 | |
| PO4 | Apply modern engineering tools and appropriate technique to conduct standard tests and measurements. | 1 | - | 3 | 2 | |
| PO5 | Apply appropriate technology in context of society, sustainability, environment and ethical practices. | - | 2 | 3 | 2 | |
| PO6 | Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate aboutwell-definedengineeringactivities. | 2 | 2 | 1 | 3 | |
| PO7 | Ability to analyze individual needs and engage in updating in the context of technological changes. | 2 | 1 | 2 | 2 | |

JUSTIFICATION FOR PO’S MAPPING WITH DEPARTMENT PEO’s

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| --- | --- | --- |
| **PO Number** | **PEO Number** | **Justification** |
| PO1 | PEO1 | **Study of basic science and mathematics help student to understand engineering fundamentals. So it maps strongly.** |
| PEO2 | The Knowledge of EC engineering help students to pursue higher studies. So it maps **moderately.** |
| PEO4 | It is concerned to adapt technological changes focusing on societal and environmental issues . So it maps **slightly** |
| PO2 | PEO1 | Through the understanding of well-defined EC engineering problem, solving it by codified method will help students to take multidisciplinary problems and innovating for solutions. So it maps **substantially.** |
| PEO2 | Through the understanding of well-defined EC engineering problem using analyze and codified method it will help students to pursue higher studies. So it maps **moderately** |
| PEO3 | Using standard and codified method student will proficiently solve problem with ethics for society. So it maps substantially. |
| PEO4 | It is concerned to identify and analyze well-defined EC engineering problem giving exposure to students adapting new technologies. So it maps **moderately.** |
| PO3 | PEO1 | Through the designing of solution for EC engineering problem it help student to work in multidisciplinary areas and provide them a path to become entrepreneur . So it maps **substantialy.** |
| PEO2 | Through the designing of solution for EC engineering problem it will help students to focus on higher studies. So it maps **substantially.** |
| PEO3 | Through the designing of solution for EC engineering problem it will help student to proficiently solve problem technically, economically and socially. So it maps **substantially.** |
| PEO4 | Through the designing of solution for EC engineering problem it will help students to adapt technological changes and help environment. So it maps **slightly.** |
| PO4 | PEO2 | Through modern engineering tools and appropriate technique to conduct standard tests will help student to provide exposure to higher education. So it maps **moderately** |
| PEO3 | Through modern engineering tools and appropriate technique to conduct standard tests will help student to proficiently solve problem technically, economically and socially. So it maps **substantially.** |
| PEO4 | Through modern engineering tools and appropriate technique to conduct standard tests will help students to give exposure to students to new technologies. So it maps **substantially.** |
| PO5 | PEO2 | Through applying appropriate technology in context of society, sustainability, environment and ethical practices will help students to understand science, mathematics and engineering fundamentals. So it maps **moderately.** |
| PEO3 | Through applying appropriate technology in context of society, sustainability, environment and ethical practices will help student to proficiently solve problem technically, economically and socially. So it maps substantially. |
| PEO4 | Through applying appropriate technology in context of society, sustainability, environment and ethical practices will help students to give exposure to students and make them efficient team leader, communicator and entrepreneur with ethics. So it maps **moderately.** |
| PO6 | PEO1 | Using engineering management principles individually about well-defined engineering activities help student to provide exposure to higher education. So it maps **moderately.** |
| PEO2 | Using engineering management principles individually about well-defined engineering activities will help students to focus on higher studies effectively. So it maps **moderately.** |
| PEO3 | Using engineering management principles individually about well-defined engineering activities it will help student to proficiently solve problem technically, economically and socially. So it maps **slightly.** |
| PEO4 | Using engineering management principles individually about well-defined engineering activities will help students to give exposure to students and make them socially responsible. So it maps **substantially.** |
| PO7 | PEO1 | Through analyzing individual needs and engage in updating in the context of technological changes will help student to apply basics. So it maps **moderately.** |
| PEO2 | Through analyzing individual needs and engage in updating in the context of technological changes will help students to take higher studies with new technologies. So it maps **slightly.** |
| PEO3 | Through analyzing individual needs and engage in updating in the context of technological changes will help student to proficiently solve problem technically, economically and socially. So it maps **moderately.** |
| PEO4 | Through analyzing individual needs and engage in updating in the context of technological changes will help students to give exposure to students and make them efficient in serving environment for a good cause. So it maps **moderately.** |