# List of Academic activities

## Activities available in GeM

| | Training 1 | Training 2 | Training 3 |
|---|---|---|---|
| **Name of the training / Product name**<br><br>**Details** | STEM Electronics Design And Prototyping Tinkering and Innovation Blended Learning program powered by Virtual Lab. | AI/ML Online Training Program | STEM Robotics Design And Prototyping Tinkering and Innovation Blended Learning program for experiential skill development powered by Virtual Innovation Lab. |
| **Most Suitable for** | BTech I-IV Years (Electronics, Electrical, Instrumentation) | BTech I-IV Years (Comp Sci, IT) | BTech I-IV Years (Mechanical) |
| **Duration** | Duration: 16 Hrs Instructor led Training. | Duration: 30 Hrs Instructor led Training | Duration: 16 Hrs Instructor led Training. |
| **Complimentary Courses and Virtual Innovation Lab** | 1. Complimentary Virtual Lab Validity for Self-Paced Learning: 2 Months.<br>2.Complimentary Courses Industry 4.0 and Innovation life cycle. | NA | 1.Complimentary Virtual Lab Validity for Self-Paced Learning: 2 Months.<br>2.Complimentary Courses Industry 4.0 and Innovation life cycle. |
| **Complimentary Hardware** | 10 Kits for STEM Electronics, Design and Prototyping | | 10 Kits for STEM Robotics, Design and Prototyping |
| **Offer Price after Discount (Rs.)** | 8,900 | 9,950 | 9,450 |
| **Minimum Qty per consignee** | 50 | 50 | 50 |
| **Total (Rs.)** | **4,45,000** | **4,97,500** | **4,72,500** |

## Training through Services

| | Training 1 (CIVIL) | Training 2 (CIVIL) | Training 3 (EEE) |
|---|---|---|---|
| **Name of the/ Product name Details** | Hydraulic and Hydrology (Watergem and Sewergem) | Open Roads (formerly known as MX road) | EDWinXP |
| **Most Suitable for** | V + VII (40 students) | V + VII (40 students) | 3rd, 5th and 7th. (80 students) |
| **Duration** | 20 hrs<br>+ 20 hrs | 20 hrs | 60 hrs |
| **Basic Requirement** | ENVIRONMENTAL ENGINEERING | Transpotation Engineering | Basic of Electronic Circuit |
| **Rate per student** | INR 7000/- | INR 5000/- | 5000 per student |
| **Total Estimated Expenditure** | **INR 2,80,000 (Tax additional)** | **INR 2.00.000 (Tax additional)** | **4,00,000.00 (Tax additional)** |
| **Why Choose this course (like Advantage, usefulness)** | Watergem and Sewergem enables student to be industry ready. | Enables student to be industry ready. | EDWinXP, the integrated solution in Electronics design world. Fast, Flexible, Ease of designing which takes a designer from Schematic to the fabrication within fraction of time with very less investment. |
| **Expected Outcome (like skills developed to the students after the completion of course)** | Students shall be able to learn and appreciate the design and planning of Water conduits and sewer lines. | Students shall be able to learn and appreciate the design and planning of roads. | The student will able to design the whole electronic design process -schematic capture, PCB layout design, generation of PCB manufacturing and testing documentation. |

## Department of Mechanical Engineering

| | Training 4 (Mech.) | Training 5 (Mech.) | Training 6 (Mech.) |
|---|---|---|---|
| **Name of the/ Product name Details** | Satellite Designing and Launching workshop | Design of automobile components using solidworks | Assembling and dismantling of ic engine in virtual environment |
| **Most Suitable for** | V (40 students) | III (40 students) | VII (40 students) |
| **Duration** | 40 hrs | 60 hrs | 60 hrs |
| **Rate per student (Approx)** | INR 8500/- | INR 5000/- | 8000 per student |
| **Total Estimated Expenditure** | **INR 3,40,000 (Tax additional)** | **INR 2.00.000 (Tax additional)** | **INR 3,20,000 (Tax additional)** |
| **Why Choose this course (like Advantage, usefulness)** | The society seeks to increase the awareness of systems engineering methodologies almost planners,designers of large system . it will promote study and research in system theory and application | Designing for the automotive industry with SOLIDWORKS across your development team and with manufacturing to make better parts vehicles | Optimization and realistic virtual simulation of the assembly and disassembly process represent important research subject, considering the significant role played by these operations in the operations in the initial stages of the product design, as well as in the fabrication, ergonomics, training, service or recycling stage |
| **Expected Outcome (like skills developed to the students after the completion of course)** | It will develop the idea among student about space and satellite .After training they will able to designing of satellite | After training student are able to develop better parts of vehicles | After training students are able to work in virtual environment |