

| Course Code | 18DCC005L | Course Name | CHALLENGE PROJECT ON PRODUCT PROTOTYPING | Course Category | C | Minor | | | | L | T | P | C |
|-------------|-----------|-------------|--|-----------------|---|-------|--|--|--|---|---|----|---|
| | | | | | | | | | | 0 | 0 | 12 | 6 |

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|----------------------------|--------------------------------------|----------------------|-----|-----------------------------|-----|
| Pre-requisite Courses | Nil | Co-requisite Courses | Nil | Progressive Courses | Nil |
| Course Offering Department | SRM Innovation and Incubation Center | | | Data Book / Codes/Standards | Nil |

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|----------------------------------|--|--|--|--|
| Course Learning Rationale (CLR): | | The purpose of learning this course is to: | | |
| CLR-1 : | To prepare the student to gain major design and or research experience as applicable to the profession | | | |
| CLR-2 : | Carry out the projects within multiple design constraintsand engineering writing | | | |
| CLR-3 : | Incorporate multidisciplinary components | | | |
| CLR-4 : | Carry out the Product Prototyping | | | |

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|---------------------------------|---|--|--|--|
| Course Learning Outcomes (CLO): | | At the end of this course, learners will be able to: | | |
| CLO-1 : | Students will be able to design a product prototype | | | |

| Learning | | |
|---------------------------|--------------------------|------------------------|
| 1 | 2 | 3 |
| Level of Thinking (Bloom) | Expected Proficiency (%) | Expected Attainment(%) |
| 100 | 80 | 85 |

| Program Learning Outcomes (PLO) | | | | | | | | | | | | | | |
|---------------------------------|------------------|----------------------|----------------------------|-------------------|-------------------|------------------------------|--------|------------------------|---------------|-----------------------|-------------------|-------|-------|--------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Engineering Knowledge | Problem Analysis | Design & Development | Analysis, Design, Research | Modern Tool Usage | Society & Culture | Environment & Sustainability | Ethics | Individual & Team Work | Communication | Project Mgt & Finance | Lifelong Learning | PSO-1 | PSO-2 | PSO- 3 |
| H | - | - | - | - | - | - | H | - | - | - | - | - | - | - |

| Learning Assessment | | | | | |
|--------------------------------|--|-----------------|----------------|-------------|------------|
| Continuous Learning Assessment | | Assessment tool | Review I | Review II | Review III |
| | | Weightage | 5% | 20% | 25% |
| Final Evaluation | | Assessment tool | Project Report | Viva Voce * | Total |
| | | Weightage | 20% | 30% | 50% |