

**INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI  
PROFORMA FOR NEW COURSE**

1.	Title of the Course	Software Engineering Laboratory
2.	Course Number	CS3294
3.	Status of the Course	Core
4.	Structure of Credits	0-0-3-2
5.	Offered To	UG
6.	New Course/Modification to	New
7.	To be Offered by	Department of Computer Science and Engineering
8.	To take effect from	July 2018
9.	Prerequisite	Nil
10.	Whether approved by the Department	Yes
11.	<b>Course Objective:</b> To gain hands-on experience on the design and development of a reasonably complex software system through application of software engineering knowledge and skills.	
12.	<b>Course Content:</b> Design, development and deployment of a reasonably complex software system over multiple iterations; Application of software engineering concepts and knowledge such as requirements engineering, software architecture, design, development and testing; Usage of technology frameworks and tools for software development; Exposure to real world software development environment under constraints of uncertain requirements and deadlines.	
13.	Text book(s): 1. Sommerville I, <i>Software Engineering</i> , Pearson Education (2017).	
14.	Reference(s): 1. Fowler M, <i>Refactoring: Improving the Design of Existing Code</i> , Addison-Wesley Professional (2018). 2. Martin R C, <i>Clean Code: A Handbook of Agile Software Craftsmanship</i> , Prentice Hall (2008). 3. Martin R C, <i>Agile Software Development, Principles, Patterns, and Practices</i> , Pearson Higher Education (2013).	