|  |  |
| --- | --- |
|  | **Department of Computer Engineering & Information Technology**  **COLLEGE OF ENGINEERING, PUNE**  **Course Plan**  **Software Engineering Mini Project-I** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **COURSE PLAN – PART I** | | | | | | |
| **Course Title** | | Software Engineering-Mini Project-Stage1 | | | | |
| **Course Code** | | LC | | **No. of Credits** | | 2 |
| **Course Type** | | Laboratory course | | | | |
| **Pre-requisite subject(s)** | | Operating Systems, Knowledge in Linux is desirable | | | | |
| **Semester/ Academic Session** | | T.Y.B. Tech. Computer Engineering - Sem V | | | | |
| **Teaching Scheme** | | 1 Tutorial & 2 Hour Lab/ week | | **Exam**  **Scheme** | Continuous evaluation  Tutorial-10 Marks  Lab-40 Marks (to be evaluated by respective lab teachers)  ESE- 50 Marks | |
| **Name of Faculty** | | Soma Ghosh | | | | |
| **Email** | | [gsn.comp@coep.ac.in](mailto:gsn.comp@coep.ac.in) | | | | |
| **COURSE PLAN – PART II** | | | | | | |
| **Course Outcomes** | | | | | | |
| 1. Demonstrate the use of tools and technologies used in software project development process. 2. Demonstrate the ability to communicate, solve technical problems, work in teams, and contribute to an ongoing software project. | | | | | | |
| **Course Teaching and Learning Activities as per the Syllabus approved in SENATE** | | | | | | |
| **S. No.** | **Lab Hours** | | **Topic** | | | |
| 1 |  | | Write shell scripts for following tasks: | | | |
| 1 | | convert a CSV file to VCF format | | | |
| 1 | | convert a youtube transcript to SRT format | | | |
| 1 | | find the top 10 size files created in last 20 days | | | |
| 1 | | move all duplicate files (except one) from a folder to a target location, etc. | | | |
| 2 | 2 | | Write shell scripts or scripts in any language of your choice, to run conformance  tests on software of your choice. | | | |
| 3 | 3 | | Create a git remote repository on any of the git hosting websites, using one of the software you have written so far.  In a group of three or more people, carry out the following activities:  Reporting of bus, assigning of issues, fixing bugs, git branch and git pull requests. | | | |
| 4 | 1 | | Localize and/or Internationalize any software and demonstrate your contributions. | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 3 | Configure any of your existing C projects of atleast 500 lines using Autotools or Cmake or scons or any similar tool. You should write the required configuration files (like configure.in, Makefile.am files etc.) and also write a bootstrap program if needed. | | | |
| 6 | 2 | Fix bugs in any existing software, preferably a open source software by participating in the community development process.(or any equivalent activity) | | | |
| **Text and Reference Books** | | | | | |
| 1. “Debian New Maintainers' Guide”, [www.debian.org/doc/manuals/maint-guide.](http://www.debian.org/doc/manuals/maint-guide) 2. Pro Git Book <https://git-scm.com/book> 3. Autotools, GNU Manuals [www.gnu.org/software/autoconf/](http://www.gnu.org/software/autoconf/) 4. GNU Gettext Manual <https://www.gnu.org/software/gettext/manual/gettext.html> 5. Advanced Bash Scripting Guide, <http://tldp.org/LDP/abs/html/> | | | | | |
| **Course Assessment Schedule** | | | | | |
| **S. No.** | **Mode of Assessment** | | **Date** | **Duration** | **Weightage** |
| 1 | Tutorial | | Continuous assessment | | 10 |
| 2 | Practical | | Continuous assessment | | 40 |
| 3 | ESE | | As per Schedule# | 3 Hrs | 50 |
| **COURSE PLAN – PART III** | | | | | |
| **Course Feedback** | | | | | |
| 1. Online feedback 2. Live feedback in the class | | | | | |
| Course Policy (preferred mode of correspondence with students, policy on attendance, academic honesty and plagiarism etc.) | | | | | |
| Mode of Correspondence (email/ phone etc): In person and Email correspondence is preferable.  Attendance: 75% Attendance is mandatory. For Less attendance students there will be compensation assignment. Though if the attendance is not fulfilled then a valid proof need to be submitted.  Academic Honesty & Plagiarism   * Students should attend the classes sincerely and maintain discipline * Students should not do any kind of malpractice like copying etc., with regard to the writing of cycle tests and assignments. | | | | | |
| Additional Information | | | | | |
| Students can contact the faculty to clarify their doubts in person any time during working hours. | | | | | |
| **FOR APPROVAL** | | | | | |
| **Course Faculty Head,**  **Dept. of Computer Engg. & IT** | | | | | |