Software Process Module CA1

Research Report Instructions

Write a research paper in the area on **Software Process Engineering** (approx. 2500 words) that satisfies the following elements:

1. An abstract that describes the particular topic that you have chosen to research. You may choose from the list of topics provided and amend to propose your own title or you can choose an emerging topic that interests you. Describe the proposed research goal so that it can be understood by the reader as to what it is and why it is valuable.
2. An analysis of the topic that describes the concept, evolution, future, ideas behind it, importance, strengths and weaknesses and so on that incorporates a thorough evaluation of the topic integrating previous work from a board range of sources.
3. Documented conclusions supported by the research that was carried out.
4. Reference list correctly set out with minimum of TEN references. References must be cited using Harvard Referencing(refer to BB)

Deliverables

You will be required to submit two deliverables:
1. The paper as outlined above and formatted and structured using IEEE paper format(refer to BB): Upload your report and presentation slides to **Turnitin**.

2. A CA Cover Sheet.

One very important requirement is that your work be original and that you use your own words in the report. You must not copy and paste material – all of the reports will be submitted to Turnitin and plagiarism is not accepted.

Your report will be marked on the appropriateness and quality of content, flow, clarity, evaluation of the topic, synthesis and evidence of understanding, insight and critical thinking in relation to the key issues dealt with in the research.

Submission Date: Week 9

Possible Topics

- Agile on a large scale – scaling Agile!

- Organisational Culture and Agile.

- Is Agile Software Development the answer to successful software development?

- Is Extreme Programming dead?

- What happens when Agile isn't done right?

- Zombie Fake Agile – the reality?

- Dark side of Agile.

- What does it mean to be Lean?

- Issues in gathering non-functional requirements.

- The difficulty in selecting Requirements Elicitation techniques.

- The case for including all stakeholders in discovering requirements.

- Application of a suitable software process model for software development.

- How DevOps has impacted the development of Software?

You can select your own topic on an emerging trend too....relationship between Agile, CI/CD, DevOps, MVP, Kanban, Scrum, Refactoring and so on. Additional handouts are available in the Assignments and Test folder on Blackboard to assist you in writing academically, specifically on critical thinking and reading and writing academically. It's not acceptable at this level to accept and document what you have read without backing it up with additional findings that support or indeed negates the findings, discovers connections and so on. In the folder is the IEEE paper format, Marks Scheme and the Harvard referencing guide and a quick guide too. Upload a one-pager to Turnitin on BB (I will place an upload link for you to do that) to ensure originality. You will be given the opportunity to discuss your title, approach and progress during breakout sessions in weeks 6 and 7.

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