GSOE9810
Process and Product Quality in Engineering

Term One // 2021
Course Overview

Staff Contact Details

Convenors

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Availability</th>
<th>Location</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Erik van Voorthuysen</td>
<td><a href="mailto:erikv@unsw.edu.au">erikv@unsw.edu.au</a></td>
<td>During and immediately after tutorials, on Moodle, Teams and by appointment</td>
<td>ME507</td>
<td>9385 4147</td>
</tr>
</tbody>
</table>

Lecturers

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Availability</th>
<th>Location</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Ron Chan</td>
<td><a href="mailto:r.chan@unsw.edu.au">r.chan@unsw.edu.au</a></td>
<td>During and immediately after tutorials, on Moodle, Teams and by appointment</td>
<td>ME507</td>
<td>9385 1535</td>
</tr>
</tbody>
</table>

School Contact Information

Location

UNSW Mechanical and Manufacturing Engineering
Ainsworth building J17, Level 1
Above Coffee on Campus

Hours

9:00–5:00pm, Monday–Friday*

*Closed on public holidays, School scheduled events and University Shutdown

Web

School of Mechanical and Manufacturing Engineering
Engineering Student Support Services
Engineering Industrial Training
UNSW Study Abroad and Exchange (for inbound students)
UNSW Future Students

Phone
(+61 2) 9385 8500 – Nucleus Student Hub

(+61 2) 9385 7661 – Engineering Industrial Training

(+61 2) 9385 3179 – UNSW Study Abroad and UNSW Exchange (for inbound students)

(+61 2) 9385 4097 – School Office**

**Please note that the School Office will not know when/if your course convenor is on campus or available

Email

[Engineering Student Support Services](#) – current student enquiries

- e.g. enrolment, progression, clash requests, course issues or program-related queries

[Engineering Industrial Training](#) – Industrial training questions

[UNSW Study Abroad](#) – study abroad student enquiries (for inbound students)

[UNSW Exchange](#) – student exchange enquiries (for inbound students)

[UNSW Future Students](#) – potential student enquiries

- e.g. admissions, fees, programs, credit transfer

[School Office](#) – School general office administration enquiries

- NB: the relevant teams listed above must be contacted for all student enquiries
Course Details

Credit Points 6

Summary of the Course

This course will introduce you to the cornerstones of creating and sustaining an effective organization by covering several quality engineering approaches, industrial cases, videos etc. Several topics as well as methods and tools for improved product and process design will be covered which are essential to take organizations into the next generation with significantly improved organizational effectiveness. Managing quality is considered critical in business and organizational governance and this includes all aspects of the engineering discipline, from analysis to design to implementation and improvement. GSOE9810 can therefore be considered an important and logical element of a graduate engineering degree or diploma.

Course Aims

This course is designed to cover the core concepts and dynamic approaches in quality engineering. They do not simply reiterate the textbooks but build on the lecture topics using examples (many taken from several industries) to show you how successfully and unsuccessfully these approaches are applied in practice.

Today’s organizations are evermore focused on improving supply chain performance. Key to this improvement is quality management. Therefore, quality engineering in product and process design continues to be an evolving, interesting and challenging topic. It has moved from beyond an emphasis on management of quality to a focus on the quality of managing, operating and integrating the design, manufacturing, delivery, marketing, information, customer service and financial areas throughout an organization’s quality value chain including the entire supply chain.

Course Learning Outcomes

After successfully completing this course, you should be able to:

<table>
<thead>
<tr>
<th>Learning Outcome</th>
<th>EA Stage 1 Competencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. State what an organisation needs to do to remain competitive in today's</td>
<td>PE2.1, PE2.2, PE2.4, PE3.4</td>
</tr>
<tr>
<td>manufacturing environment</td>
<td></td>
</tr>
<tr>
<td>2. State how an organisation can improve its processes and integrate its several</td>
<td>PE1.3, PE1.5</td>
</tr>
<tr>
<td>functions through the best use of quality engineering</td>
<td></td>
</tr>
<tr>
<td>3. Be able to determine whether a process is capable of producing a product or</td>
<td>PE1.2, PE1.3</td>
</tr>
<tr>
<td>service to specifications</td>
<td></td>
</tr>
<tr>
<td>4. Be able to integrate very popular topics like total quality management,</td>
<td>PE1.6, PE2.2, PE3.4</td>
</tr>
<tr>
<td>Six-Sigma, and Benchmarking into organisations</td>
<td></td>
</tr>
</tbody>
</table>

Teaching Strategies

A wide variety of concepts and tools of analysis will be covered, and you will be interacting with other students in the lectures and demonstration sessions, either online or face-to-face, sometimes in teams or
individually. You become more engaged in the learning process if you can see the relevance of your studies to professional, disciplinary and/or personal contexts, and the relevance is shown in the lectures, face-to-face or web-based contents by way of examples drawn from different industries.

Several case discussions will take place in lectures and demonstrations as well as through UNSW Moodle page. These aim to give several opportunities to each of you to interact, exchange ideas, knowledge and experiences with the facilitators and other students through:

- reading from a wide range of cases studies and synthesize a range of perspectives,
- reflecting on your own experience and knowledge in the light of new learning,
- exchanging views and challenge each other's thinking in structured learning environment,
- analyzing case studies and relate learnings to your own context working collaboratively on a hypothetical project.

Lectures, demonstration sessions and assessments in the course are designed to cover the core knowledge areas in Quality Engineering. They do not simply reiterate the texts but build on the lecture topics using examples and cases taken directly from industry to show how the theory is applied in practice and the details of when, where and how it should be applied.

Lectures and demonstration sessions are designed to develop several graduate attributes by creating an environment where information sharing, discussions, teamwork, communication, task completions and project role playing will take place. Since each of you may have come from a different professional and academic background, your experiences are drawn on to illustrate various aspects of cases covered, and this helps to increase motivation and engagement.

A team of around four to five students in UNSW Moodle will be set and each team will be assigned to two case assignments. Lecturers will provide you with feedback and discussion on the assignment, and to understand the concepts and problems in greater depth.

**Additional Course Information**

All lectures and tutorials will be held online in T1, 2021. Most lectures will be asynchronous (in other words, they are recorded and you can watch them in your own time). Tutorials will be held synchronously (in real time) and you are encouraged to attend these.
Assessment

Assignments

The assignments will be posted on Moodle and a reminder announcement will be made about the due date for the assignments. The assignments support the learning outcomes by incorporating an appropriate mix of activities such as issue analysis, fact-based data analysis that support the design of appropriate solutions and strategies. The assignments also support collaborative team work and integration of different ideas and components into an overall coherent quality management strategy.

Assignment 1 focuses on a quality management case study that forms the basis for identifying and understanding engineering quality issues and problems. Students are to critically analyse these issues against various drivers (customer requirements, competitors, regulations, organisational skills and capabilities etc) and generate appropriate and innovative solutions (hypotheses) to these issues.

For Assignment 2, students are required to analyse a large dataset containing process performance and quality data and to apply appropriate statistical methods to identify the nature and extent of the problems and to use this analysis to suggest improvements to the process.

The following criteria will be used to grade assignments:

Written reports

- Analysis and Evaluation of assignments by integrating knowledge gathered in lectures, demonstration sessions and textbook.
- Sentences in clear and plain English—this includes correct grammar, spelling and punctuation
- Correct referencing in accordance with the prescribed citation and style guide
- Appropriateness of analytical techniques used
- Accuracy of numerical answers
- All working shown
- Use of diagrams, where appropriate, to support or illustrate the calculations
- Use of graphs, where appropriate, to support or illustrate the calculations
- Use of tables, where appropriate, to support or shorten the calculations
- Neatness

Presentation

All submissions are expected to be neat and clearly set out. Your results are the pinnacle of all your hard work and should be treated with due respect. Presenting results clearly gives the marker the best chance of understanding your method; even if the numerical results are incorrect.

Submission

Work submitted late without an approved extension by the course coordinator or delegated authority is subject to a late penalty of 20 per cent (20%) of the maximum mark possible for that assessment item, per calendar day.

The late penalty is applied per calendar day (including weekends and public holidays) that the assessment is overdue. There is no pro-rata of the late penalty for submissions made part way through a day.
Work submitted after the ‘deadline for absolute fail’ is not accepted and a mark of zero will be awarded for that assessment item.

For some assessment items, a late penalty may not be appropriate. These are clearly indicated in the course outline, and such assessments receive a mark of zero if not completed by the specified date. Examples include:

1. Weekly online tests or laboratory work worth a small proportion of the subject mark, or
2. Online quizzes where answers are released to students on completion, or
3. Professional assessment tasks, where the intention is to create an authentic assessment that has an absolute submission date, or
4. Pass/Fail assessment tasks.

Marking

Marking guidelines for assignment submissions will be provided at the same time as assignment details to assist with meeting assessable requirements. Submissions will be marked according to the marking guidelines provided.

Other assessments

*Additional assessments may be given in class to reinforce topics and provide early feedback. These assessments will not contribute to the final mark.*

Examinations

There will be a two (2) hour final examination scheduled at the end of session, covering all material and all chapters in the prescribed textbook.

You must be available for all tests and examinations. Final examinations for each course are held during the University examination periods: February for Summer Term, May for T1, August for T2, and November/December for T3.

Please visit myUNSW for Provisional Examination timetable publish dates.

For further information on exams, please see the [Exams](#) webpage.

Online Quiz

The quiz will be conducted online via Moodle. The format of the quiz consists of multiple choice questions, calculations and short answer questions. The link to the quiz will be available on Tuesday evening of the quiz week, during the last hour of the allocated lecture time. Each student gets ONE attempt to complete the quiz within the set time limit. The quiz will automatically shut down at 9pm precisely, regardless of the time the quiz was started. The feedback of the quiz will be provided after the quiz is closed. Note that the quiz questions are randomly drawn from a question bank with similar theme and difficulty, numerical questions may appear with random input numbers, so students will not expect to get the exact same question. Students are expected to complete the quiz individually.

You must be available for all tests and examinations.
Assessment Tasks

<table>
<thead>
<tr>
<th>Assessment task</th>
<th>Weight</th>
<th>Due Date</th>
<th>Student Learning Outcomes Assessed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online Quiz</td>
<td>5%</td>
<td>09/03/2021 08:00 PM</td>
<td>1, 2, 3, 4</td>
</tr>
<tr>
<td>Quality Strategy Assignment</td>
<td>20%</td>
<td>30/03/2021 09:00 PM</td>
<td>1, 2, 3, 4</td>
</tr>
<tr>
<td>Statistical Process Control Assignment</td>
<td>25%</td>
<td>20/04/2021 09:00 PM</td>
<td>1, 2, 3, 4</td>
</tr>
<tr>
<td>Final Exam</td>
<td>50%</td>
<td>Not Applicable</td>
<td>1, 2, 3, 4</td>
</tr>
</tbody>
</table>

Assessment Details

Assessment 1: Online Quiz

**Start date:** 09/03/2021 08:00 PM

**Details:**

Online quiz covers critical material from week 1-3 early in the course

**Additional details:**

More details will be posted on Moodle

Assessment 2: Quality Strategy Assignment

**Start date:** Not Applicable

**Length:** 4 pages of typewritten text maximum

**Details:**

A quality management case study forms the basis for identifying and understanding engineering quality issues and problems and students are to critically analyse these issues against various drivers (customer requirements, competitors, regulations, organisational skills and capabilities etc) and to generate appropriate and innovative solutions (hypotheses) to these issues.

**Additional details:**

Details of the assignment will be posted on Moodle

Assessment 3: Statistical Process Control Assignment

**Start date:** Not Applicable

**Details:**

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Students are required to analyse a large dataset containing process performance and quality data and to apply appropriate statistical methods to identify the nature and extent of the problems and to use this analysis to suggest improvements to the process.

Additional details:

Assignment details will be posted on Moodle

Assessment 4: Final Exam

Start date: Not Applicable

Details:

The final exam covers all material taught in the course
## Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

## Course Schedule

[View class timetable](#)

### Timetable

<table>
<thead>
<tr>
<th>Date</th>
<th>Type</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>O Week: 8 February - 12 February</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Week 1: 15 February - 19 February</strong></td>
<td>Lecture</td>
<td>Perspectives and scope of Quality Engineering and Issue analysis. Chapter 1 and Lecture notes.</td>
</tr>
<tr>
<td></td>
<td>Tutorial</td>
<td>Assignment I discussion and Team forming instruction</td>
</tr>
<tr>
<td><strong>Week 2: 22 February - 26 February</strong></td>
<td>Lecture</td>
<td>Quality Theory and KFS analysis. Chapter 2 and Lecture notes.</td>
</tr>
<tr>
<td></td>
<td>Tutorial</td>
<td>Discussion of the FEDEX case study. General discussion of topics in Weeks 1 and 2.</td>
</tr>
<tr>
<td><strong>Week 3: 1 March - 5 March</strong></td>
<td>Lecture</td>
<td>Global Supply Chain Quality, Quality Standards. Chapter 3 and 8 and Lecture notes.</td>
</tr>
<tr>
<td></td>
<td>Tutorial</td>
<td>Case Study discussion. Details will be posted on Moodle.</td>
</tr>
<tr>
<td><strong>Week 4: 8 March - 12 March</strong></td>
<td>Lecture</td>
<td>Strategic Quality Planning. Chapter 4 and Lecture notes.</td>
</tr>
<tr>
<td></td>
<td>Assessment</td>
<td>Online quiz worth 5% of the total course mark will be held this week.</td>
</tr>
<tr>
<td><strong>Week 5: 15 March - 19 March</strong></td>
<td>Lecture</td>
<td>Design Theory.</td>
</tr>
<tr>
<td></td>
<td>Tutorial</td>
<td>Axiomatic Design and VDI-2221 case study.</td>
</tr>
<tr>
<td><strong>Week 6: 22 March - 26 March</strong></td>
<td>Blended</td>
<td>Week 6 is a flexibility week. Focus on Assignment 1.</td>
</tr>
<tr>
<td><strong>Week 7: 29 March - 2 April</strong></td>
<td>Lecture</td>
<td>Voice of the Customer and Voice of the Market. Chapter 5,6, 7 and Lecture notes.</td>
</tr>
<tr>
<td></td>
<td>Tutorial</td>
<td>Tools of Quality and Acceptance Sampling. Chapter 9,10 Lecture notes and Supplement online material.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Assignment 1 support prior to submission.</td>
</tr>
<tr>
<td><strong>Week 8: 5 April - 9 April</strong></td>
<td>Lecture</td>
<td>Statistical Process Control I. Chapter 11 and Lecture notes.</td>
</tr>
<tr>
<td></td>
<td>Tutorial</td>
<td>Questions on variable control charts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Assignment II discussion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Questions on Acceptance Sampling, Basic and New 7 tools</td>
</tr>
<tr>
<td>Week 9: 12 April - 16 April</td>
<td>Lecture</td>
<td>Statistical Process Control II. Chapter 12 and Lecture notes.</td>
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<tr>
<td>-----------------------------</td>
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</tr>
<tr>
<td></td>
<td>Tutorial</td>
<td>Questions on attribute control charts and capability analysis.</td>
</tr>
<tr>
<td>Week 10: 19 April - 23 April</td>
<td>Lecture</td>
<td>Six-Sigma Management and Tools, Revision. Chapter 13 and Lecture notes.</td>
</tr>
<tr>
<td></td>
<td>Tutorial</td>
<td>Assignment II Support prior to submission.</td>
</tr>
</tbody>
</table>
Resources

Prescribed Resources

Lecture notes for all topics will be posted on Moodle. For all e-Books and reference books please visit the UNSW Library website: https://www.library.unsw.edu.au/

Textbooks

The prescribed textbook for this course is:


You can purchase the eBook version directly from the publisher at: https://www.pearson.com.au

The print version is available from the UNSW bookstore: https://www.bookshop.unsw.edu.au/details.cgi?ITEMNO=9781292154213

UNSW Library website: https://www.library.unsw.edu.au/


Recommended Resources

Not available

Course Evaluation and Development

Feedback on the course is gathered periodically using various means, including the UNSW myExperience process, informal discussion in the final class for the course, and the School’s Student/Staff meetings. Your feedback is taken seriously, and continual improvements are made to the course based, in part, on such feedback.
Submission of Assessment Tasks

Assessment submission and marking criteria

Should the course have any non-electronic assessment submission, these should have a standard School cover sheet.

All submissions are expected to be neat and clearly set out. Your results are the pinnacle of all your hard work and should be treated with due respect. Presenting results clearly gives the marker the best chance of understanding your method; even if the numerical results are incorrect.

Marking guidelines for assignment submissions will be provided at the same time as assignment details to assist with meeting assessable requirements. Submissions will be marked according to the marking guidelines provided.

Late policy

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Examinations

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Please visit myUNSW for Provisional Examination timetable publish dates. For further information on exams, please see the Exams webpage.

Special Consideration

If you have experienced an illness or misadventure beyond your control that will interfere with your
assessment performance, you are eligible to apply for Special Consideration prior to submitting an assessment or sitting an exam.

UNSW now has a Fit to Sit / Submit rule, which means that if you attempt an exam or submit a piece of assessment, you are declaring yourself fit enough to do so and cannot later apply for Special Consideration.

For details of applying for Special Consideration and conditions for the award of supplementary assessment, please see the information on UNSW’s Special Consideration page.

Please note that students will not be required to provide any documentary evidence to support absences from any classes missed because of COVID-19 public health measures such as isolation. UNSW will not be insisting on medical certificates from anyone deemed to be a positive case, or when they have recovered. Such certificates are difficult to obtain and put an unnecessary strain on students and medical staff.

Applications for special consideration will be required for assessment and participation absences – but no documentary evidence for COVID 19 illness or isolation will be required.
Academic Honesty and Plagiarism

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW students have a responsibility to adhere to this principle of academic integrity. Plagiarism undermines academic integrity and is not tolerated at UNSW. *Plagiarism at UNSW is defined as using the words or ideas of others and passing them off as your own.*

Plagiarism is a type of intellectual theft. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement. UNSW has produced a website with a wealth of resources to support students to understand and avoid plagiarism, visit: [student.unsw.edu.au/plagiarism](http://student.unsw.edu.au/plagiarism). The Learning Centre assists students with understanding academic integrity and how not to plagiarise. They also hold workshops and can help students one-on-one.

You are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting and the proper referencing of sources in preparing all assessment tasks.

If plagiarism is found in your work when you are in first year, your lecturer will offer you assistance to improve your academic skills. They may ask you to look at some online resources, attend the Learning Centre, or sometimes resubmit your work with the problem fixed. However more serious instances in first year, such as stealing another student’s work or paying someone to do your work, may be investigated under the Student Misconduct Procedures.

Repeated plagiarism (even in first year), plagiarism after first year, or serious instances, may also be investigated under the Student Misconduct Procedures. The penalties under the procedures can include a reduction in marks, failing a course or for the most serious matters (like plagiarism in an honours thesis) even suspension from the university. The Student Misconduct Procedures are available here:

Academic Information

Credit points

Course credit is calculated in Units-Of-Credit (UOC). The normal workload expectation for one UOC is approximately 25 hours per term. This includes class contact hours, private study, other learning activities, preparation and time spent on all assessable work.

Most coursework courses at UNSW are 6 UOC and involve an estimated 150 hours to complete, for both regular and intensive terms. Each course includes a prescribed number of hours per week (h/w) of scheduled face-to-face and/or online contact. Any additional time beyond the prescribed contact hours should be spent in making sure that you understand the lecture material, completing the set assignments, further reading, and revising for any examinations.

On-campus class attendance

Public distancing conditions must be followed for all face-to-face classes. To ensure this, only students enrolled in those classes will be allowed in the room. Class rosters will be attached to corresponding rooms and circulated among lab demonstrators. No over-enrolment is allowed in face-to-face class. Students enrolled in online classes can swap their enrolment from online to a limited number of on-campus classes by Sunday, Week 1. Please refer to your course’s Microsoft Teams and Moodle sites for more information about class attendance for in-person and online class sections/activities.

Your health and the health of those in your class is critically important. You must stay at home if you are sick or have been advised to self-isolate by NSW health or government authorities. Current alerts and a list of hotspots can be found here. You will not be penalised for missing a face-to-face activity due to illness or a requirement to self-isolate. We will work with you to ensure continuity of learning during your isolation and have plans in place for you to catch up on any content or learning activities you may miss. Where this might not be possible, an application for fee remission may be discussed. Further information is available on any course Moodle or Teams site.

In certain classroom and laboratory situations where physical distancing cannot be maintained or there is a high risk that it cannot be maintained, face masks will be considered mandatory PPE for students and staff.

For more information, please refer to the FAQs: https://www.covid-19.unsw.edu.au/safe-return-campus-faqs

Guidelines

All students are expected to read and be familiar with UNSW guidelines and polices. In particular, students should be familiar with the following:

- Attendance
- UNSW Email Address
- Special Consideration
- Exams
- Approved Calculators
- Academic Honesty and Plagiarism
Important Links

• Moodle
• Lab Access
• Health and Safety
• Computing Facilities
• Student Resources
• Course Outlines
• Engineering Student Support Services Centre
• Makerspace
• UNSW Timetable
• UNSW Handbook
• UNSW Mechanical and Manufacturing Engineering
• Equitable Learning Services

Image Credit

Synergies in Sound 2016

CRICOS

CRICOS Provider Code: 00098G

Acknowledgement of Country

We acknowledge the Bedegal people who are the traditional custodians of the lands on which UNSW Kensington campus is located.
## Appendix: Engineers Australia (EA) Professional Engineer Competency Standard

<table>
<thead>
<tr>
<th>Program Intended Learning Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Knowledge and skill base</strong></td>
</tr>
<tr>
<td>PE1.1 Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline</td>
</tr>
<tr>
<td>✔ PE1.2 Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the engineering discipline</td>
</tr>
<tr>
<td>✔ PE1.3 In-depth understanding of specialist bodies of knowledge within the engineering discipline</td>
</tr>
<tr>
<td>✔ PE1.4 Discernment of knowledge development and research directions within the engineering discipline</td>
</tr>
<tr>
<td>✔ PE1.5 Knowledge of engineering design practice and contextual factors impacting the engineering discipline</td>
</tr>
<tr>
<td>✔ PE1.6 Understanding of the scope, principles, norms, accountabilities and bounds of sustainable engineering practice in the specific discipline</td>
</tr>
<tr>
<td><strong>Engineering application ability</strong></td>
</tr>
<tr>
<td>✔ PE2.1 Application of established engineering methods to complex engineering problem solving</td>
</tr>
<tr>
<td>✔ PE2.2 Fluent application of engineering techniques, tools and resources</td>
</tr>
<tr>
<td>✔ PE2.3 Application of systematic engineering synthesis and design processes</td>
</tr>
<tr>
<td>✔ PE2.4 Application of systematic approaches to the conduct and management of engineering projects</td>
</tr>
<tr>
<td><strong>Professional and personal attributes</strong></td>
</tr>
<tr>
<td>PE3.1 Ethical conduct and professional accountability</td>
</tr>
<tr>
<td>PE3.2 Effective oral and written communication in professional and lay domains</td>
</tr>
<tr>
<td>PE3.3 Creative, innovative and pro-active demeanour</td>
</tr>
<tr>
<td>✔ PE3.4 Professional use and management of information</td>
</tr>
<tr>
<td>PE3.5 Orderly management of self, and professional conduct</td>
</tr>
<tr>
<td>PE3.6 Effective team membership and team leadership</td>
</tr>
</tbody>
</table>