# ENGG1100 TEMPLATE D – Project Management

*Submit at the end of session for marking. Collect during project session, and stick in your logbook.*

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| PROJECT (e.g. A): | A | NAME: | Abhishekh Jeyadev |
| TEAM (e.g. P05-Red) | P04 | Student No. | s4648024 |

## 1. SMART GOALS (Pick 3 Project-specific goals, Work as a table, 5 minutes)

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| **GOAL 1** | Produce a working prototype |
| **SPECIFIC** | *What will you do? What are the tasks?*  Design and integrate components, observe how they interact with one another and build prototypes to achieve the objectives and goals whilst remaining within constraints. |
| **MEASURABLE** | *What constitutes success?*  Working prototype fulfils functions and objectives on demo day, without breaking constraints |
| **AGREED** | *Who needs to agree to this work?*  The team (P04 Purple) |
| **REALISTIC** | *What do you need to do this (people, physical resources, software etc.)?*  Team member co-operation, materials within the budget for the robot, tools to manufacture/modify materials, robot software |
| **TIMING** | *When does it need to be done by?*  Demo day |

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| **GOAL 2** | Continue working in adverse circumstances/overcome obstacles |
| **SPECIFIC** | Agree on a design process which includes backup plans and leniency for time, which will allow for modifications and workarounds given there are obstacles. |
| **MEASURABLE** | Tasks are completed ahead of time; workarounds are successfully implemented. |
| **AGREED** | The team |
| **REALISTIC** | Team members, organisation, communication, tools and materials. |
| **TIMING** | Demo day |

*These goals could be used as the over-arching tasks for your Gantt Chart.*

## 2. WORK BREAKDOWN STRUCTURE (Break down the tasks, 10 minutes, Work in pairs or as table).



programming

Component construction/manufacturing

*1.4* risk assesment

Resource allocation

Gantt chart

WBS

PSP

Adjusting construction/design

Assembly and interconnecting

Testing prototype to fit fucntions

Demo day

Final report

building

Plan integration of components

Determining end goals

Specific design plans - components

Plan how goals can be achieved

Planning

Produce a working prototype of robot

*Remember WBS say what will be done not how or when.*

## 3. GANTT CHART - Schedule the next 4 weeks (10 minutes, Work in pairs or as table)

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| TASK/SUB-TASK | | RESOURCES | | W/C: 16 March, Week 4 | | | | | | W/C: 23 March, Week 5 | | | | | | W/C: 30 Mar, Week 6 | | | | | | W/C: 6 April, Break! | | | | | |
| No. | Description | Hours | Who | M | T | W | T | F | S/S | M | T | W | T | F | S/S | M | T | W | T | F | S/S | M | T | W | T | F | S/S |
| **1** | **Complete PSP** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1 | Draft: use templates | 1 | All |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.2 | Finish sections |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| a | WBS | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b | Gantt chart | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| c | Risk assessment | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.3 | Submit | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **2** | **Design** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1 | Brainstorm: use PIR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| a | Expand on PIR ideas | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.2 | Resource identification: use PSP |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| a | Discuss resource integration | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b | Discuss resource cost | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| c | Gather/purchase resources | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.3 | Construction |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Continued in future weeks |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M | Team meetings |  | All |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M | Submission due |  | All | PIR |  |  |  |  |  |  |  |  |  |  |  | PSP |  |  |  |  |  |  |  |  |  |  |  |
| M | Templates |  | All | D |  |  |  |  |  |  |  |  |  |  |  | E |  |  |  |  |  | F |  |  |  |  |  |

M = Milestone; X = Ethics Reflection