

## **Audit of Validated Programmes**

| Programme Code Programme I | Programme Title   | Validation Panel Date: |
|----------------------------|---|------------------------|
| SG_EELEC_H08               | Programme name  | 20 April 2020          |
|                            | Bachelor of Engineering (Hons) in Electronics and Self Driving Technologies |                        |
|                            |   |                        |

Attendance: Dr Aodhmar Cadogan, Assistant Registrar, Diane O Brien Head of Department,

Programme Team (if attending): Not aplicable

Date of Audit: 16 Nov 2020

| Recommendations                                     | Response to recommendations                             | Evidence of revised                              | Outstanding issues   |
|---|---|--|--|
|   |   | documentation presented. A                       |  |
| Recommendation                                      | Response:   | Response accepted                                | The state of the s |
| In regards to the assessment of some of the         | <ol> <li>The lecturer on the Introduction to</li> </ol> | 78-44-6-1  |  |
| learning outcomes in In stage 1 semester 2          | Professional Engineering and the                        | ENG06072   | Closed   |
| Introduction to professional engineering module,    | lecturer on the Multidisciplinary                       |  |  |
| the panel recommended that there may be             | Project will link to provide overall                    |  |  |
| scope within the assessment of the Multi            | context and discuss opportunities                       |  |  |
| disciplinary project module to address some of      | for cross modular assessment.                           |  |  |
| the assessment and provide context.                 | <ol><li>Functional safety will be explicitly</li></ol>  | Document and |  |
| The panel noted that functional safety in regard    | covered in the V2x and                                  | Nesponse accepted                                | Cosec  |
| to self driving was not explicitly mentioned in any | Cybersecurity module and a learning                     | IRON08019 updated to                             |  |
| module, the panel recommends it is integrated       | outcome is specifically assigned to                     | include functional safety                        |  |
| into the programme.                                 | functional safety. Functional safety                    |  |  |
|   | for autonomous vehicles ISO 26262                       |  |  |

|        | ENG06081                        |  |                               |          |
|--------|---------------------------------|--|-------------------------------|----------|
|        |                                 | the lecturer delivering this module.   |                               |          |
|        | Response accepted               | Aided Design will be highlighted to  |                               |          |
|        | the Module specifically.        | Engineering Graphics and Computer  |                               |          |
|        | and has not been written into   | to their specialities within the   |                               |          |
|        | lecturer delivering programme   | disciplines are assessed appropriate   |                               |          |
| Closed | this will be nightighted by     | This recommendation to ensure all  | Ç.                            |          |
|        |                                 | examination.   |                               |          |
|        | Access section                  | the special entrance maths   |                               |          |
| ciosed | Located in the Programme        | been updated to include details of   | •                             |          |
|        |                                 | The programme documentation has  | 4.                            |          |
|        |                                 | students.  |                               |          |
|        |                                 | workshops will be provided to the  |                               |          |
| Closed | COMP081// Updated               | the Project 400 module and   |                               |          |
|        |                                 | Research methods is incorporated in  | ψ                             |          |
|        |                                 | context of the module itself.  |                               |          |
|        |                                 | vehicle specific modules but in the  | ર્સ                           |          |
|        |                                 | will also be referred to in other  |                               |          |
| Rev001 | Audit of Validated Programmes R | THE REPORT WHEN THE PROPERTY WAS A SHARE WHEN THE WAS A SHARE WHEN WHEN THE WAS A SHARE WHEN THE WAS A SHARE WHEN THE WAS A SHARE WH | Institute of Technology Sligo | Institut |

| Conditions  Response to Conditions  Condition:  Response: | Condition: | with  | of m  | of m<br>and<br>sche  |
|---|------------|---|---|--|
| Respo   | 5          | <b>bove</b> There were a number of mod                        | As Above There were a number of modules with missing information and/or draft versions of modules. Example Stage 3 missing Scada and Maths elective. Review and confirm the | As Above There were a number of modu with missing information and/or draft verof modules. Example Stage 3 missing Sca and Maths elective. Review and confirm to schedule and modules are correct for the |
| Respo   |            | ules  | ules<br>Prsions<br>ada<br>the   | ules<br>ersions<br>ada<br>the  |
|   | Respo      | <u>i.,</u>  | <ol> <li>The maths (elective) module has<br/>been added to the programme<br/>schedule in AMM.</li> </ol>  | i,   |
|   |            | The maths (elective) module has now   Module Code – MATH08013 | Nov   | Now<br>Aim   |
| Evidence of revised documentation presented.              |            | Closed  | Closed  | Closed   |

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| ω  | Institu<br>2.   |
|--|---|
| Vehicle Kinematics is an important aspects of self driving technology and is not specifically mentioned in any module. This needs to be included within the programme. | Institute of Technology Sligo  2. As above Provide (within AMM or in addition to) a bespoke set of learning outcomes for the programme. |
| ώ  | 2.  |
| Vehicle Kinematics has been<br>added to the Robotic Path<br>Planning Module TRON08017  | A bespoke set of PLO had been included in the submission document.  |
| TRON08017 updated to include vehicle Kinematics.   | Audit of Validated Programmes Page 21 of Volume 1 Submission Document   |
| Closed   | Rev001<br>Closed  |

All recommendation reviewed by the Assistant Registrar and this concludes the QA process.

| Name | Assistant Registrar | Dr Aodhmar Cadogan | Hickory   |
|------|---------------------|--------------------|-----------|
| Date |                     | Date               | 14/2/2021 |

Head of Department

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| 3. Vehicle Kinematics is an important aspects of self driving technology and is not specifically mentioned in any module. This needs to be included within the programme. | to) a bespoke set of learning outcomes for the | 2. As above Provide (within AMM or in addition | Institute of Technology Sligo |
|---|--|--|-------------------------------|
| Vehicle Kinematics has been added to the Robotic Path Planning Module TRON08017   |  |  |                               |
| TRON08017 updated to include vehicle Kinematics.  | Submission Document                            | Page 21 of Volume 1                            | Audit of Validated Programmes |
| Closed  |  |  | Rev001                        |

All recommendation reviewed by the Assistant Registrar and this concludes the QA process.

| Dr Aodhmar Cadogan  | Date          |
|---------------------|---------------|
| Assistant Registrar |               |
| Diane O'Brien       | Diane O'Brien |
| Name                | Date          |
| Head of Department  |               |

|  |  | ω  |                           |                             |  | 2.  | Inst                            |
|--|--|--|---------------------------|-----------------------------|--|---|---------------------------------|
| needs to be included within the programme.       | of self driving technology and is not specifically mentioned in any module. This | Vehicle Kinematics is an important aspects |                           | programme.                  | to) a bespoke set of learning outcomes for the | As above Provide (within AMM or in addition | Institute of Technology Sligo   |
|  |  |  |                           | ω                           |  |   |                                 |
|  |  | Planning Module TRON08017                  | added to the Robotic Path | Vehicle Kinematics has been |  |   |                                 |
| TRON08017 updated to include vehicle Kinematics. |  |  |                           |                             | Submission Document                            | Page 21 of Volume 1                         | Audit of Validated Programmes F |
|  | Closed   |  |                           |                             |  |   | Rev001                          |

| specifically mentioned in any module. This needs to be included within the programme.     |                                    | TRON08017 updated to include vehicle Kinematics. | Closed |
|---|------------------------------------|--|--------|
| All recommendation reviewed by the Assistant Registrar and this concludes the QA process. | and this concludes the QA process. |  |        |
| Dr Aodhmar Cadogan<br>Assistant Registrar   | Date                               |  |        |
| Diane O'Brien   | Diane D'Brien                      |  |        |
| Name  | Date                               |  |        |
| Head of Department  |                                    |  |        |