

PART TWO PROGRAMME SPECIFICATON

1	Awarding body	Glyndŵr University
2	Teaching institution	Glyndŵr University
3	Award title	FdEng in Industrial Engineering Certificate of Higher Education in Industrial Engineering
4	Final awards available	FdEng in Industrial Engineering
5	Professional, Statutory or Regulatory Body (PSRB) accreditation	<p>Please list any PSRBs associated with the proposal</p> <p>The programme has been developed in line with the Engineering Council Engineering Competence (UK-SPEC) standards such that the programme content structure, implementation, management and the learning outcomes adhere to the guidelines defined, as demonstrated with the module specifications and the curriculum matrix table, within.</p> <p>The programme is accredited by both the Institution of Engineering & Technology (IET) and Institution of Mechanical Engineers (IMechE). The programme contributes towards Engineering Council professional registration.</p> <p>(Note IMechE cannot accredit the electrical or automation routes due to insufficient mechanical content).</p> <p>Please add details of any conditions that may affect accreditation (e.g. is it dependent on choices made by a student?)</p> <p>N/A</p>
6	JACS3 code	H190
7	UCAS code	N/A
8	Relevant QAA subject benchmark statement/s	<u>QAA Foundation Degree qualification benchmark (2015)</u> <u>QAA Foundation Degree Characteristics Statement (2015)</u> <u>QAA Subject Benchmark Statement Engineering (2015)</u>
9	Other external and internal reference points used to inform the programme outcomes	<u>Engineering Council, UK-SPEC third edition (2014)</u> <u>Engineering Council, UK-SPEC document "The Accreditation of Higher Education Programmes" third edition</u> <u>Sector Skills Council for Science, Engineering and Manufacturing Technologies (SEMTA)</u>
10	Mode of study	Part time
11	Language of study	English

Office use only

Approved October 2016

Revised March 2018 – admin correction of accreditation details

Revised Sept 2018 – Modules revised and codes changed as follows:

ENG412 to ENG420 Transducers

ENG52B to ENG53A PLCs

Aug 2019 updated derogation in line with Engineering Council Compensation Policy

5/8/20 APSC approval of additional validated engineering modules added to the structure as optional

2/11/20 APSC approval of additional validated module ENF507 to be added to the structure as optional.

12 Criteria for admission to the programme

Guidance - Entry requirements are in accordance with the University's admissions policy <http://www.glyndwr.ac.uk/en/media/Media,49536,en.pdf>

Standard entry criteria

UK entry qualifications

Applicants for foundation degrees require 120 UCAS tariff points

International entry qualifications

Qualifications outlined on the National Academic Recognition and Information Centre (NARIC) as equivalent to the above UK entry qualification.

Programme specific requirements

All applicants must be employed in an appropriate role in industry. Advice and guidance to applicants regarding their appropriate experience and their industrial background will be offered by the academic programme team.

Non-standard entry criteria

(e.g. industry experience)

Other learning and experience may be considered for entry to the programme. A student may be allowed entry if he or she does not have the standard entry qualifications but can provide evidence of necessary knowledge and skills to successfully enter and complete the course.

13 Recognition of Prior (Experiential) Learning

Applicants may enter the programme at various levels with Recognition of Prior Learning (RPL) or Recognition of Prior Experiential learning (RPEL) in accordance with the University General Regulations. Any programme specific restrictions are outlined below

Programme specific requirements

None

14 Aims of the programme

The key aim of the programme is to develop the intellectual and application skills of individuals by means of personal management, knowledge acquisition, problem analysis, deductive skills, synthesis and evaluation of solutions, and including an awareness of social and environmental implications, in preparation for:

- A career as a professional engineer in Industry;
- A management role in industry;
- Life-long learning and an appreciation of the value of education in continuing professional development.

Thus, provides the breadth of learning, skills and attitudes for graduates to meet the future needs of a rapidly changing technology and business environment.

15 Distinctive features of the programme

The FdEng Industrial Engineering programme has been developed to meet the demands of industry to provide engineering qualifications that not only cover the traditional theoretical aspects associated with this vocation but also encompass new

and emerging technologies. The programme integrates academic and work-based learning through close collaboration with our industry partners.

Both local and national organisations have had significant input into the development of the programme, particularly relating to programme and module content, ensuring it is 'fit for purpose'. Also students, both past and present, have been involved with the programme development, whereby scheduling of delivery and assessment has been influenced by student feedback. Many previous students have progressed into senior engineering and management roles.

Mechanical transmission systems, automation equipment, smart sensors, process instrumentation and automation equipment have been donated by the Industry partners. We have also invested in the latest Profibus diagnostic equipment and Siemens Totally Integrated Automation platform software. This investment enhances the student experience, as they are dealing with industrial standard equipment rather than 'educational training equipment'.

16 Programme structure narrative

The programme will be delivered on a part time day release basis. The duration of the Foundation Degree will normally be two calendar years. The FdEng Industrial Engineering award requires 240 credits of which 120 are from Level four and 120 are from Level five. Students will start the programme at the September entry point. Day release taught modules and work based learning will be delivered over three trimesters. Assessment Boards will take place in September.

An exit award of Certificate of Higher Education in Industrial Engineering will be available for students who successfully complete Level 4 of the programme and who are unable or do not wish to continue with the programme.

17 Programme structure diagram

The FdEng Industrial Engineering programme has five routes: Automation & Instrumentation, Plant Maintenance, Mechanical, Electrical and Mechatronics. Each route consists of:

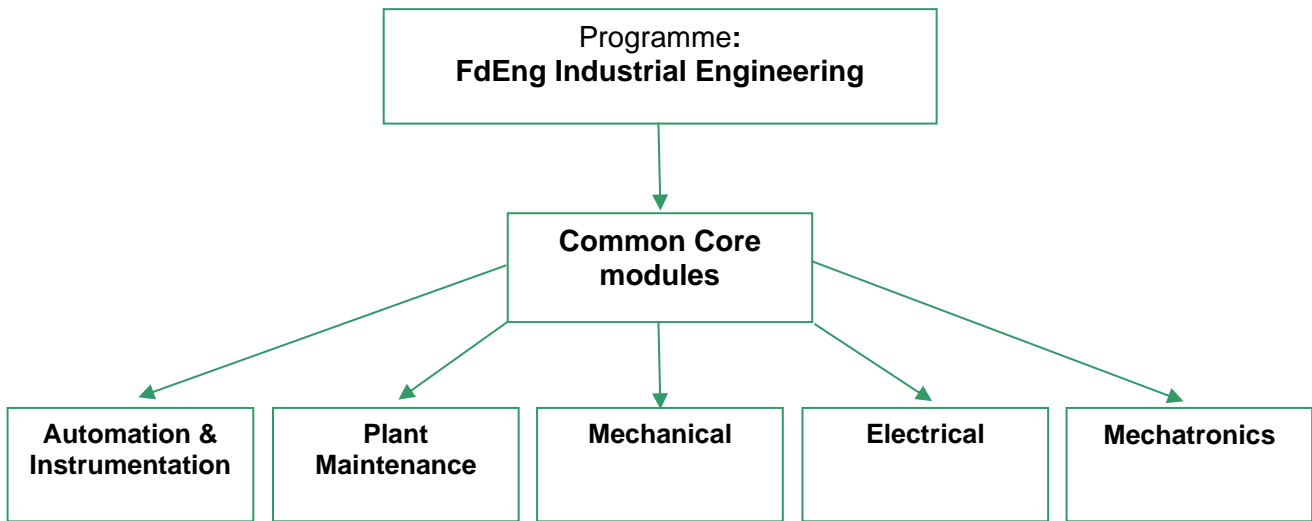
Level 4

- Two 20 credit modules, delivered concurrently
- Two 20 credit work-based modules, delivered concurrently
- Two 20 credit specialism modules

Level 5

- One 20 credit module, delivered concurrently. Students choose one optional module out of three
- Two 20 credit work-based modules
- Three 20 credit specialism modules

For Mechanical route, if students take the option of ENF507 instead of ENG5AA and ENG540, ENG5AB will become compulsory.



FdEng Industrial Engineering Routes and Associated Modules				
Level Four				
Automation & Instrumentation	Plant Maintenance	Mechanical	Electrical	Mechatronics
ENG454 Work Based Investigation and Training*				
ENG455 Operations Management*				
ENG451 Engineering Mathematics				
(O) ENG452 Engineering Science A OR (O) ENG497 Electric Engineering				
(O) ENG403 Diagnostics & Testing	(O) ENG404 CAD CAM		(O) ENG403 Diagnostics & Testing	(O) ENG404 CAD CAM
OR (O) ENG496 Design and CAD				
(O) ENG412 Transducers	(O) ENG456 Plant Equipment Fundamentals	(O) ENG413 Application of Mechanical Systems	(O) ENG412 Transducers	
OR (O) ENG499 Mechanical Engineering				

Level Five				
Automation & Instrumentation	Plant Maintenance	Mechanical	Electrical	Mechatronics
(O) ENG5AA Analytical Control Techniques OR (O) ENG540 Engineering Science B OR (O) ENF507 Manufacturing, Design & Technology				
ENG52A Instrumentation & Process Control		ENG52D Metrology & Materials	ENG52A Instrumentation & Process Control	(O) ENG5AE Instrumentation & Condition Monitoring (O)ENG52C Industrial Electronics
(O) ENG5AJ Modern Manufacture, Sustainability & Industry 4.0 OR (O) ENG543 Project Management & Presentation Techniques*				
ENG544 Industrial Project*				
ENG53A PLCs	(O) ENG5AG Mechanical System Design OR (O) ENG545 Applied Engineering		ENG53A PLCs	
(O) ENG5AH Mechatronics Application & Manufacturing Systems OR (O) ENG546 Industrial Data and Network Design	ENG542 Power, Distribution and System Design	(O) ENG5AB Computer Aided Engineering OR (O) ENF507 Manufacturing, Design & Technology	ENG542 Power, Distribution and System Design	ENG52E Mechatronic Applications
* <i>Work-based modules</i>				

Level Four						
Trimesters 1, 2 and 3	Mod title	Engineering Mathematics	Mod title	Engineering Science A	Mod title	Work Based Investigation and Training
	Mod code	ENG451	Mod code	ENG452	Mod code	ENG454
	New/Exist	Existing	New/Exist	Existing	New/Exist	Existing
	Credit value	20	Credit value	20	Credit value	20
	Core/Opt	Core	Core/Opt	Option	Core/Opt	Core
	Mod leader	Maria Kochneva	Mod leader	Ikeya Uria	Mod leader	Tecwyn Mitchell

Level Four						
Trimesters 1, 2 and 3	Mod title	Operations Management	Mod title	Diagnostics and Testing	Mod title	CAD CAM
	Mod code	ENG455	Mod code	ENG403	Mod code	ENG404
	New/Exist	Existing	New/Exist	New	New/Exist	New
	Credit value	20	Credit value	20	Credit value	20
	Core/Opt	Option	Core/Opt	Option	Core/Opt	Option
	Mod leader	Natalija Vidmer	Mod leader	Sultan Shoab	Mod leader	Natalija Vidmer

Level Four						
Trimesters 1, 2 and 3	Mod title	Transducers	Mod title	Plant Equipment Fundamentals	Mod title	Application of Mechanical Systems
	Mod code	ENG420	Mod code	ENG456	Mod code	ENG413
	New/Exist	New	New/Exist	Existing	New/Exist	New

	Credit value	20	Credit value	20	Credit value	20
	Core/Opt	Option	Core/Opt	Option	Core/Opt	Option
	Mod leader	Sultan Shoaib	Mod leader	Fatima Mansour	Mod leader	Fatima Mansour
Level Four						
Trimesters	Mod title	Electrical Engineering	Mod title	Mechanical Engineering	Mod title	ENG496 Design & CAD
	Mod code	ENG497	Mod code	ENG499	Mod code	ENG413
Trimesters 1, 2 and 3	New/Exist	New	New/Exist	New	New/Exist	New
	Credit value	20	Credit value	20	Credit value	20
	Core/Opt	Option	Core/Opt	Option	Core/Opt	Option
	Mod leader	Sultan Shoaib	Mod leader	Maria Kochneva	Mod leader	Natalija Vidmer

Level Five						
Trimesters 1, 2 and 3	Mod title	Engineering Science B	Mod title	Project Management and Presentation Techniques	Mod title	Project
	Mod code	ENG540	Mod code	ENG543	Mod code	ENG544
	New/Exist	Existing	New/Exist	Existing	New/Exist	Existing
	Credit value	20	Credit value	20	Credit value	20
	Core/Opt	Option	Core/Opt	Option	Core/Opt	Core
	Mod leader	Rob Bolam	Mod leader	Tecwyn Mitchell	Mod leader	Tecwyn Mitchell

Level Five						
Trimesters 1, 2 and 3	Mod title	Power, Distribution and System Design	Mod title	Instrumentation & Process Control	Mod title	PLCs
	Mod code	ENG542	Mod code	ENG52A	Mod code	ENG53A
	New/Exist	Existing	New/Exist	New	New/Exist	New
	Credit value	20	Credit value	20	Credit value	20
	Core/Opt	Option	Core/Opt	Option	Core/Opt	Option
	Mod leader	Yuriy Vagapov	Mod leader	Sultan Shoab	Mod leader	Zheng Chen

Level Five						
Trimesters 1, 2 and 3	Mod title	Industrial Data and Network Design	Mod title	Industrial Electronics	Mod title	Mechatronic Applications
	Mod code	ENG546	Mod code	ENG52C	Mod code	ENG52E
	New/Exist	Existing	New/Exist	New	New/Exist	Existing
	Credit value	20	Credit value	20	Credit value	20
	Core/Opt	Option	Core/Opt	Option	Core/Opt	Option
	Mod leader	Majeed Soufian	Mod leader	Sultan Shoab	Mod leader	Majeed Soufian

Level Five						
Trimesters 1, 2 and 3	Mod title	Metrology and Materials	Mod title	Manufacturing, Design & Technology	Mod title	Applied Engineering
	Mod code	ENG52D	Mod code	ENF507	Mod code	ENG545
	New/Exist	NEW	New/Exist	Existing	New/Exist	Existing
	Credit value	20	Credit value	20	Credit value	20
	Core/Opt	Option	Core/Opt	Option	Core/Opt	Option
	Mod leader	Natalija Vidmer	Mod leader	Tecwyn Mitchell	Mod leader	Tecwyn Mitchell

Level Five						
Trimesters 1, 2 and 3	Mod title	Modern Manufacture, Sustainability & Industry 4.0	Mod title	Analytical Control Techniques	Mod title	Computer Aided Engineering
	Mod code	ENG5AJ	Mod code	ENG5AA	Mod code	ENG5AB
	New/Exist	NEW	New/Exist	New	New/Exist	New
	Credit value	20	Credit value	20	Credit value	20
	Core/Opt	Option	Core/Opt	Option	Core/Opt	Option
	Mod leader	Fatima Mansour	Mod leader	Majeed Soufian	Mod leader	Natalija Vidmer

Level Five						
Trimesters 1, 2 and 3	Mod title	Mechanical System Design	Mod title	Mechatronics Application & Manufacturing Systems	Mod title	
	Mod code	ENG5AJ	Mod code	ENG5AH	Mod code	
	New/Exist	NEW	New/Exist	New	New/Exist	
	Credit value	20	Credit value	20	Credit value	
	Core/Opt	Option	Core/Opt	Option	Core/Opt	
	Mod leader	Tecwyn Mitchell	Mod leader	Majeed Soufian	Mod leader	

18 Intended learning outcomes of the programme

Knowledge and Understanding

	Level 4	Level 5
A1	Develop an understanding of mathematical concepts or principles relevant to Industrial Engineering	Apply mathematical concepts or principles relevant to Industrial Engineering problems.
A2	Identify and explain scientific principles relevant to Industrial Engineering	Develop scientific principles and demonstrate an understanding of relevant applications within Industrial Engineering
A3	Develop an awareness of current technologies and their uses within Industrial Engineering	Critically appraise current and future technologies and develop an awareness of the sustainability implications.

Intellectual Skills

	Level 4	Level 5
B1	Identify problems and potential causes and effects	Identify and analyse problems and use diagnostic methods to recognise causes and achieve satisfactory solutions
B2	Identify, organise and use resources to complete tasks safely and efficiently	Identify, organise and use resources effectively to complete tasks, with consideration for cost, quality, safety and environmental impact.
B3	Apply given tools/methods to a well-defined problem and begin to appreciate the complexity of the issues.	Recognise and define key elements of problems and choose appropriate methods for their resolution in a considered manner.
B4	Form opinions based upon knowledge and understanding of the subject in question	Present arguments to uphold decisions following an evaluation of a particular subject.

Subject Skills

	Level 4	Level 5
C1	Conduct given laboratory experiments to investigate engineering principles and properties of devices and systems	Devise laboratory experiments to prove engineering principles and properties of devices and systems
C2	Design and construct devices and systems to meet given performance criteria	Design and construct devices/systems and devise methods of testing to check for given performance criteria
C3	Monitor processes or systems, and develop an awareness of possible improvements.	Monitor processes or systems, trend processes and make predictions, in order to bring about continuous improvement.
C4	Propose and plan a self-directed individual programme of investigation.	Plan and undertake and report a self-directed individual programme of investigation and design.

Practical, Professional and Employability Skills

	Level 4	Level 5
D1	D1: Identify basic information and suitable sources, carry out searches and bring information together in a way that ensures work is accurate, clear and properly saved.	D1: Plan how to obtain and use required information for the purpose of an activity and use appropriate structures and procedures to explore and develop information.
D2	D2: Use oral, written and electronic methods for the communication of technical and other information	D2: Use oral, written and electronic methods for effective communication of technical and other information
D3	D3: Apply safe systems of work	D3: Manage and apply safe systems of work
D4	D4: Work reliably without close supervision accepting responsibility for tasks undertaken	D4: Demonstrate the ability to work reliably and effectively without supervision accepting responsibility for tasks undertaken
D5	D5: Operate and communicate using IT in a format appropriate to the discipline.	D5: Operate and communicate effectively using IT in formats appropriate to the discipline.
D6	D6: Use CPD to maintain competence and reflective practice.	D6: Make effective use of CPD to ensure ongoing competence at the level of future intended practice.

19 Curriculum Matrix

To demonstrate how the overall programme outcomes are achieved and where skills are developed and assessed within individual modules

			<i>Knowledge and understanding, intellectual skills, subject skills, and practical, professional and employability skills</i>																		
		Module Title	Core/Opt	A1	A2	A3	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4	D5	D6	
FdEng (240 credits)	Level 4 Cert HE (120 credits)	Engineering Mathematics	core	✓	✓				✓												
		Engineering Science A	core	✓	✓		✓			✓	✓			✓		✓					
		Work Based Investigation & Training	core		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
		Operations management	core			✓		✓		✓							✓	✓	✓	✓	✓
		Diagnostics & Testing	Option	✓	✓	✓				✓		✓		✓	✓						
		CADCAM	Option		✓	✓	✓			✓		✓		✓	✓						
		Transducers	Option		✓	✓				✓		✓	✓	✓	✓						
		Plant Equipment Fundamentals	Option		✓	✓				✓		✓	✓	✓							
	Application of Mechanical Systems	Option		✓	✓				✓		✓	✓	✓								
	Electric Engineering	Option		✓		✓					✓	✓				✓	✓				
	Design and CAD	Option		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓			
	Mechanical Engineering	Option		✓		✓					✓	✓				✓	✓				
		Level 5	Engineering Science B	Option	✓	✓		✓			✓	✓		✓		✓					
	Project Management and Presentation Techniques		Option		✓					✓					✓	✓	✓	✓	✓	✓	
	Project		Core	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	
	Power, Distribution and System Design		Option		✓	✓		✓		✓	✓		✓				✓	✓			
	Process Control and Instrumentation		Option			✓	✓			✓	✓		✓	✓	✓			✓		✓	
	PLCs		Option	✓	✓	✓		✓	✓				✓	✓	✓			✓	✓		
	Industrial Data and Network Design		Option			✓		✓			✓	✓		✓	✓	✓			✓		
	Industrial Electronics		Option			✓				✓	✓	✓	✓		✓	✓			✓		
	Mechatronic Systems		Option			✓		✓			✓	✓		✓	✓				✓		
	Metrology and Materials		Option		✓				✓				✓						✓		
	Manufacturing, Design & Technology	Option		✓						✓		✓		✓				✓			

		Applied Engineering	Option	✓				✓				✓			✓			✓		
		Analytical Control Techniques	Option	✓	✓				✓		✓				✓					
		Instrumentation & Condition Monitoring	Option	✓	✓	✓	✓		✓		✓	✓	✓		✓	✓				
		Mechanical System Design	Option		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓				
		Modern Manufacture, Sustainability & Industry 4.0	Option			✓	✓	✓	✓	✓			✓		✓	✓				
		Computer Aided Engineering	Option			✓	✓			✓		✓	✓		✓	✓	✓			

20 Learning and teaching strategy

The learning and teaching strategy has been developed within Glyndŵr University's Teaching and Learning Framework, the QAA Subject Benchmark statement for Engineering (2015), the QAA Foundation Degree Qualification Benchmark (2015) and the QCA (Qualifications and Curriculum Authority).

Students will apply their learning to the workplace and will be encouraged, through classroom activity and assessments, to reflect on their own practice and organisational practice in order to improve their own performance as well as giving them the knowledge and confidence to contribute towards the development of organisational performance and improvement. They will also be expected to reflect on experiences within the work place and use these as a basis for learning.

The team recognises that the learning and teaching strategy should reflect the different requirements of the students. In order to achieve this the team have agreed the following strategy:

1. To ensure that the teaching methods adopted for classroom and related activity are planned to ensure that tutors use a range of examples, reflecting the diversity of experiences when explaining the application of theory to practice.
2. To ensure that group discussions, case study / problem solving activity relate to and reflect the different aspects of practice represented within the classroom.
3. Where guest lecturers are used, they will be briefed by the module tutor to ensure that they are aware of the student profile and that the proposed presentation accommodates this.
4. The Work Based Learning modules will be supported by tutorial discussions between the tutor and student to ensure that the proposed learning reflects the practice needs of the student.
5. To ensure that the assessment strategy and methods of assessment are sufficiently flexible to enable students to apply and demonstrate their learning in a context which is relevant to them.

The learning and teaching methods adopted reflect the QCA /QAA descriptors in the following ways:

- Lectures are used to impart key information and show case new ways of working which will enable students to develop a sound understanding of the principles of their field of study as well as identifying new ways of working.
- Case studies, role plays and group working will be used to facilitate application of the principles more widely. They will also be used to prompt discussion and practice problem solving skills. This will also allow students to evaluate the appropriateness of different approaches to solving problems.
- The use of portfolios for Work Based Learning modules facilitates reflection on the qualities necessary for employment, requiring the exercise of personal responsibility and decision making. Additionally they will allow students to identify the limits of their knowledge and skills and identify strategies for development.
- Assessments are used to facilitate learning as well as providing an indication of student achievement.

The programme team has developed a strategic approach to delivering learning and teaching which meets the needs of the student group, enables skills development, allows for the practical application of knowledge and encourages students to become

reflective practitioners. The balance between face-to-face lectures and directed study is detailed within the module specifications. Students will apply their learning to the work place and will be encouraged, through classroom activities and assessments, to reflect on both their own and organisational behaviour in order to improve their performance as well as giving them the knowledge and confidence to contribute towards the development of their organisational performance.

Learning and Teaching are activities which operate at different levels simultaneously. To the student the immediate activity relates to the explicit topics being studied. However, transferable skills are also inherent in order for the student to both carry out the tasks and to develop. These elements are built into the modules comprising the programme as what might be called embedded issues. Other embedded issues, such as awareness of environmental impact, sustainability and commercial implications are also integrated in modules throughout the programme.

Knowledge and Understanding

Acquisition of knowledge is by means of lectures, practical and laboratory-based exercises, investigative exercises involving searching of various sources, directed reading and further reading. Pre-written notes will have a role in supporting these activities. Understanding is developed through tutorials, discussion, evaluation exercises and individual exercise sheets.

Intellectual Skills

These skills are developed by the students undertaking individual activities, within tutorials and practical sessions, or by being required to contribute to group activities. In each case, throughout the course a range of problems are set requiring the student to carry out information searches, analysis, design formulation, synthesis, test definition, modelling (software based), and methodology or by calculation. Reflective self-evaluation forms part of this. Critical evaluation is encouraged via debate and discussion in the tutorials.

Key Skills

Key skills include: communication skills, ability to work in a group or on one's own, management of time, use of computers and other technology, the application of calculations (the discipline of regularly attending and contributing to classes exercises the transferable skills of self-management and time management). Each module specification provides examples of transferable skills covered within its learning outcomes. Beyond this most modules require performance in several skill areas including self-management, communication and use of computer packages. All of these are monitored by the module tutors and feedback given.

VLE (Virtual Learning Environment)

Extensive use is made of Glyndŵr University's VLE, Moodle, to enhance the learning experience.

Moodle is used by most staff to provide information about the courses and individual modules, and also as a repository of lecture notes and links to other sources of information.

21 Work based/placement learning statement

The students will use their work place as their primary learning opportunity. Therefore there is no placement element within the programme.

There are four named Work Based Learning Modules however, all of the modules within the programme have an element of work based learning as they either require students to apply their learning to their practice or provide underpinning knowledge for the four specific Work Based Learning modules.

For each of the Work Based Learning modules, contact time is designated, where the module tutor identifies the next set of learning requirements and discusses the means to achieve them. Also, the time will be used for one-to-one feedback sessions to examine each student's progress towards meeting the previous set of learning requirements.

Students will be expected to make continual progress towards meeting the learning outcomes between academic sessions. To facilitate this process, the dedicated University engineering mentor visits the students at their work place. Also, module leaders or the programme leader will sometimes accompany the mentor, as time permits, particularly if a student is not performing as expected.

It is beneficial if the student's line manager is present during the onsite visits as the opportunities for the student to meet the learning outcomes can be discussed and either suitable work or access to necessary equipment / facilities can be arranged for the student. Progress is reviewed and any difficulties discussed along with general guidance relating to the content and presentation of any work to be handed in.

There are four Work Based Learning Modules, comprising of two 20 credits, modules each year:

Year 1

- Work Based Investigation and Training
- Operations Management

Year 2

- Project Management & Presentation Techniques
- Project

Consideration must be given to circumstances where the students learning environment may no longer be available. In such circumstances, which it is anticipated will be rare; the programme team will use the facilities of the course to provide simulated experience for the students in question. This may change the balance within the student experience and make it a more reflective and negotiated process but will still fall within the dimensions of Work Based Learning contained within the [QAA Foundation Degree Characteristics Statement \(2015\)](#).

Should this situation arise the programme will agree a specific policy for facilitating learning. The nature of this agreement will vary according to the circumstances of the individual and may include a combination of simulation, site visits, observations, reflective activity and shadowing.

Student responsibilities

All students in undertaking work based learning will have a responsibility to themselves, to their employers, and to any organisation affording them a work based learning opportunity. All students will be advised about the need for confidentiality both in discovering and reporting on documents. Confidentiality has to be considered in two contexts. Individual details must not be identified in any documents to preserve the individual's right to privacy under the Data Protection Act 1998. In addition any material of a sensitive nature may not be used. Issues of confidentiality and ethical working will be addressed within the Work Based Learning modules. Additionally, a section in the programme handbook will provide guidance and direction on this issue. This will be reinforced with the inclusion of a specific assessment criterion.

Student Support

The key support provided to students for their work based learning will be their named work based learning tutor who will agree individual tutorials with students.

Student feedback will be gathered through questionnaires at the end of the module. Feedback to date indicates that students are satisfied with the level of support provided.

22 Welsh medium provision

Students are entitled to submit assessments in the medium of Welsh. Where a need for Welsh medium assessment has been identified and no appropriate Welsh speaking tutor/assessor is available, the written assessment will be translated into English. This translation will be conducted by University qualified translators.

For those students who wish to learn Welsh or to improve their Welsh, there are a range of courses available. Further, the Second Language Learning Centre can help those whose first language is not English. These services are found on Moodle at:

<https://moodle.glyndwr.ac.uk/course/view.php?id=23%252F%2522%2520target%253D%2522%20blank%2522>

23 Assessment strategy

The programme team are committed to delivering an assessment strategy which is student centred, reflects the requirements of the Foundation Degree qualification benchmark (2015) and QAA Subject Benchmark Statement Engineering (2015).

The programme provides opportunities for formative, diagnostic and summative feedback. The assessment methods used reflect the needs of the student group and allows for the knowledge and learning outcomes of the programme to be tested as well as allowing for the development and assessment of practical and transferable skills.

There is a commitment to enable students to focus on their own learning needs and to use assessment as a means for evaluating their own practice, analysing their organisational practice and where possible to synthesise work based learning and University learning.

Where assessed group work is undertaken, students will be expected, through the production of meeting notes and action plans, to demonstrate that they have contributed equally to the task. In all cases, group assessment will account for no more than 20% of the overall module assessment.

Grading

Assessment will be graded using the suggested criteria grid detailed within Glyndŵr University's Assessment Guidance Handbook, the criteria will be contextualised for each assessment. All work will be assessed by tutors at Glyndŵr University. Students will receive written feedback within the target times set out by Glyndŵr University.

Plagiarism

Where practicable, Turnitin will be used a tool to support students to develop their academic writing style as well as to detect plagiarism or collaboration.

Double Marking and Moderation

All module assessments will be internally verified with a sample being moderated by the external examiner in accordance with Glyndŵr University's Regulatory Requirements.

Extenuating Circumstances and Deadlines for Submission

Students will be given a schedule of assessment submission dates for the year. They will be informed of the penalties which apply for non-submission. Students will be made aware of the procedure relating to extenuating circumstances and will be encouraged to work closely with their tutors should they require support and guidance on this matter.

Feedback to students

Feedback, both formal and informal is given to students throughout the programme. Feedback may be verbal, given during tutorials or lab exercises, where both student and lecturer can identify problems and steps can be taken to improve future work. Feedback is presented as part of a continuous assessment plan, such as the development of a portfolio; this may be verbal or written feedback, or it may be formal written feedback, as in the case of assignment marking with comments.

It should be noted that much of the feedback, not only identifies problems along with suitable guidance, but also highlights the student's achievements. This approach usually works better than simply "must try harder".

In some cases 'progressive feedback' is the most suitable approach, particularly when there are many problems with an individual student's work. I.e. do not try to mend everything all at once, as this can lead to the student becoming demoralised, but rather work on the most important aspects first, whilst introducing other improvements later.

Assessment Methods

Formative assessment is essential to learning in its aim is to give appropriate and timely feedback to students on their learning, and to help them to improve their future work.

In Course Tests

In course tests are usually an 'unseen' paper sat in an invigilated environment. An exception to the unseen element is when a case study is required for reference. Indicative feedback of results will be provided to students within three weeks of the submission date. Official results will be provided in the form of a transcript after assessment boards have been convened.

Note: The in-course tests will be set in a similar style to a formal written examination, with a similar type of paper and with a similar level of academic rigour. However, it

will be sat under the supervision of the programme team, rather than under the central university administration, in order to provide flexibility in the timing of the assessment activity.

Assignment

This is a single task given to the student in the form of a 'brief' defining the assignment requirements at or near the beginning of the module. This may require the student to carry out investigations and literature searches in their own time and under their own initiative or it may require independent problem solving based on work covered in the lectures/tutorials. The work is normally required in the form of a formal report submitted by a given deadline. Sometimes a presentation, either individually or as a group forms part of the assessment.

Portfolio

This is a term referring to a collection of small, and perhaps diverse, exercises whose individual marks are brought together in a single folder to form a single in-course mark. Examples are where a series of laboratory exercises form part of the module. Feedback is given after each exercise (called formative assessment) so that a student is aware of progress made on an on-going basis.

Continuous Assessment

Some modules use continuous assessment whereby a set of progressive exercises are used to build up to the achievement of a major task. Each exercise is given a mark (called summative assessment) and feedback given, usually during class, in order to help with the next stage. The final mark is a combination of these marks. It is also the preferred method of assessment for the project, as the student project develops there are interim points for assessment which are inclusive of VLE quizzes, presentations, log books, and staged formal reports. The feedback to the student is thus also continuous and assists the students to achieve their potential.

Case Study

For some modules, a case study might be the most appropriate form of assessment whereby the student would investigate a particular scenario, software programme or an instrumentation system. They would analyse the 'subject' and convey their critical opinions, this could be verbally (oral presentation) or a short report. Frequently the student is given three or four scenarios to consider simultaneously, thereby enabling comparison of advantages and disadvantages.

Level Four Modules (also see module specifications)

Module code & title	Assessment type and weighting	Assessment loading	Indicative submission date
<i>Engineering Mathematics ENG451</i>	<i>In class test 50%</i> <i>In class test 50%</i>	<i>1.5 Hours</i> <i>1.5 Hours</i>	<i>Week 5 Trimester 2</i> <i>Week 11 Trimester 3</i>
<i>Engineering Science A ENG452</i>	<i>Coursework 50%</i> <i>In class test 50%</i>	<i>2000 Words</i> <i>1.5 Hours</i>	<i>Week 11 Trimester 2</i> <i>Week 11 Trimester 3</i>
<i>Work Based Investigation and Training ENG454</i>	<i>Portfolio 100%</i>	<i>4000 Words</i>	<i>6 projects 2 ea. Trimester</i>
<i>Operations Management ENG455</i>	<i>Portfolio 100%</i>	<i>4000 Words</i>	<i>Week 14 Trimester 3</i>
<i>Diagnostics and Testing ENG403</i>	<i>Report 60%</i> <i>Practical 40%</i>	<i>2500 Words</i> <i>1500 Words</i>	<i>Week 10 Trimester 3</i> <i>End of ea. Trimester</i>
<i>CAD CAM ENG404</i>	<i>Coursework 50%</i> <i>Practical 50%</i>	<i>2000 Words</i> <i>2000 Words</i>	<i>End of ea. Trimester</i> <i>End of ea. Trimester</i>
<i>Transducers ENG420</i>	<i>Report 60%</i> <i>Multiple Choice Questions 40%</i>	<i>2500 Words</i> <i>1 Hour</i>	<i>ea. Trimester</i> <i>Week 10 Trimester 3</i>
<i>Plant Equipment Fundamentals ENG456</i>	<i>Report 60%</i> <i>Case study 40%</i>	<i>2500 Words</i> <i>1500 Words</i>	<i>Trimester 2</i> <i>Trimester 3</i>
<i>Application of Mechanical Systems ENG413</i>	<i>Portfolio 100%</i>	<i>4000 Words</i>	<i>End of ea. Trimester (1,2&3)</i>

Level Five Modules

Module code & title	Assessment type and weighting	Assessment loading	Indicative submission date
<i>Engineering Science B ENG540</i>	<i>Report 40% In class test 60%</i>	<i>1500 Words 2 Hours</i>	<i>Week 12 Trimester 3 Week 10 Trimester 3</i>
<i>Project Management and Presentation Techniques ENG543</i>	<i>Presentation 50% Portfolio 50%</i>	<i>15 Minutes 2000 Words</i>	<i>Week 12 Trimester 3 ea. Trimester</i>
<i>Project ENG544</i>	<i>Report 100%</i>	<i>4000 Words</i>	<i>Week 14 Trimester 3</i>
<i>Power, Distribution and System Design ENG542</i>	<i>Case Study 50% In class test 50%</i>	<i>2000 Words 2 Hours</i>	<i>Week 10 Trimester 2 Week 11 Trimester 3</i>
<i>Instrumentation & Process Control ENG52A</i>	<i>Case Study 50% Simulation 50%</i>	<i>2000 Words 2000 Words</i>	<i>Week 8 Trimester 3 End of ea. Trimester</i>
<i>PLCs ENG53A</i>	<i>Portfolio 100%</i>	<i>4000 Words</i>	<i>ea. Trimester</i>
<i>Industrial Data and Network Design ENG546</i>	<i>Report 50% Research Proposal 50%</i>	<i>2000 Words 2000 Words</i>	<i>Week 6 Trimester 2 Week 11 Trimester 3</i>
<i>Industrial Electronics ENG52C</i>	<i>Portfolio 60% In class test 40%</i>	<i>2000 Words 1.5 Hours</i>	<i>ea. Trimester Week 11 Trimester 2</i>
<i>Mechatronic Applications ENF52E</i>	<i>Report 50% Report 50%</i>	<i>2000 Words 2000 Words</i>	<i>End of Trimester 2 End of Trimester 3</i>
<i>Metrology and Materials ENG52D</i>	<i>Portfolio 50% In class test 50%</i>	<i>2000 Words 2 Hours</i>	<i>ea. Trimester Week 9 Trimester 3</i>
<i>Manufacturing, Design & Technology ENF507</i>	<i>Portfolio 50% Portfolio 50%</i>	<i>2000 Words 2000 Words</i>	<i>ea. Trimester ea. Trimester</i>
<i>Applied Engineering ENG545</i>	<i>Portfolio 50% Portfolio 50%</i>	<i>2000 Words 2000 Words</i>	<i>ea. Trimester ea. Trimester</i>

Additional Modules (Also see Module specifications)

Module code & title	Assessment type and weighting	Assessment loading	Indicative submission date
ENG495 Analytical Engineering Techniques	50% Assignment 50% Exam	2500 Words 2Hr.	Wk. 12, SEM 1 Wk. 12, SEM 2
ENG497 Electrical Engineering	50% Portfolio 50% Exam	2500 Words 2Hr.	Wk. 12, SEM 1 Wk. 12, SEM 2
ENG499 Mechanical Engineering	50% Portfolio 50% Exam	2500 Words 2Hr.	Wk. 12, SEM 1 Wk. 12, SEM 2
ENG496 Design & CAD	50% Coursework 50% Portfolio	2500 Words 1500 Words	Wk. 12, SEM 1 Wk. 12, SEM 2
ENG498 Engineering Standard, Business & Operations Management	50% Report 50% Portfolio	2500 Words 2500 Words	Wk. 12, SEM 2 Wk. 12, SEM 3
ENG4AA Work Based Learning	25% Report 75% Portfolio	1200 3800	Wk. 12, SEM 2 Wk. 12, SEM 3
ENG5AB Computer Aided Engineering	50% In-class Test (MCQ) 50% Assignment	2Hr. 2500 Words	Wk. 12, SEM 1 Wk. 12, SEM 2
ENG5AA Analytical Control Techniques	50% Coursework 50% Exam	2500 Words 2Hr.	Wk. 12, SEM 1 Wk. 12, SEM 2
ENG5AJ Modern Manufacture, Sustainability & Industry 4.0	50% Report 50% Case Study	2500 Words 2500 Words	Wk. 12, SEM 1 Wk. 12, SEM 2
ENG5AF Materials & Processes	50% Assignment 50% Exam	2500 Words 2Hr.	Wk. 12, SEM 1 Wk. 12, SEM 2
ENG5AC Industrial Automation & PLCs	100% Portfolio	3500 Words	Wk. 12, SEM 2
ENG5AE Instrumentation & Condition Monitoring	50% Case Study 50% Portfolio	2500 Words 2500 Words	Wk. 12, SEM 1 Wk. 12, SEM 2
ENG5AD Industrial Project	10% Presentation 90% Report	15 min 5000 Words	Wk. 12, SEM 3 Wk. 12, SEM 3
ENG5AG Mechanical System Design	50% Case Study 50% Portfolio	2000 Words 2000 Words	Wk. 12, SEM 1 Wk. 12, SEM 2
ENG5AH Mechatronics Application & Manufacturing Systems	50% Assignment 50% Assignment	2500 Words 2500 Words	Wk. 12, SEM 1 Wk. 12, SEM 2
ENG5AK Power, Distribution & System Design	50% In-class Test 50% Case Study	2Hr. 2500 Words	Wk. 12, SEM 2 Wk. 12, SEM 2

24 Assessment regulations

Regulations for Bachelor Degrees, Diplomas, Certificates and Foundation Degrees

Derogations

A derogation from regulations has been approved for this programme for the following:

The pass mark for a module assessment is 40%, each element of assessment (where there is more than one assessment) requires a minimum mark of 30% for the module to be passed overall.

Failure may be compensated at the time of attempted level completion up to a maximum of 30 credits across all levels of the programme.

The FdEng Individual Project, ENG544 is not eligible for compensation.

This is to meet professional body requirements.

Non-credit bearing assessment

N/A

Borderline classifications (for undergraduate programmes only)

N/A

Restrictions for trailing modules (for taught masters programmes only)

N/A

25 Programme Management

Programme leader

Tecwyn Mitchell

Programme team

Name		Title	Email	Room
Neil	Pickles	Associate Dean	Neil.Pickles@glyndwr.ac.uk	C123
John	Worden	Associate Dean	j.worden@glyndwr.ac.uk	C101a
Andrew	Sharp	Senior Lecturer	Andrew.Sharp@glyndwr.ac.uk	C13f
Arfon	Hughes	Senior Technician	arfon.hughes@glyndwr.ac.uk	E6
David	Sprake	Senior Lecturer	d.sprake@glyndwr.ac.uk	C101
Fatima	Mansour	Senior Lecturer	f.mansour@glyndwr.ac.uk	C6
Ikeya	Uria	Lecturer	ikeya.uria@glyndwr.ac.uk	C13e
Majeed	Soufian	Lecturer	majeed.soufian@glyndwr.ac.uk	C118
Maria	Kochneva	Senior Lecturer	M.Kochneva@glyndwr.ac.uk	C13
Martyn	Jones	Senior Lecturer	martyn.jones@glyndwr.ac.uk	C13b
Mobayode	Akinsolu	Lecturer	m.kinsolu@glyndwr.ac.uk	C36
Nataliia	Luhyna	Senior Lecturer	n.luhyna@glyndwr.ac.uk	C13f
Natalija	Vidmer	Senior Lecturer	n.vidmer@glyndwr.ac.uk	C13
Nicholas	Burdon	Senior Lecturer	n.burdon@glyndwr.ac.uk	C08
Olivier	Durieux	Senior Lecturer	o.durieux@glyndwr.ac.uk	C13c
Paul	Green	Senior Technician	p.green@glyndwr.ac.uk	E7
Robert	Bolan	Senior Lecturer	r.bolam@glyndwr.ac.uk	B55
Shafiul	Monir	Senior Lecturer	s.monir@glyndwr.ac.uk	C13b
Sultan	Shoaib	Lecturer	Sultan.shoaib@glyndwr.ac.uk	C118
Tecwyn	Mitchell	Senior Lecturer	t.mitchell@glyndwr.ac.uk	C13e
Yuriy	Vagapov	Reader	y.vagapov@glyndwr.ac.uk	C101
Zheng	Chen	Principal Lecturer	z.cheng@glyndwr.ac.uk	C22

Quality management

The Programme Leader will take overall responsibility for quality assurance and enhancement in line with the expectations detailed within the University's Programme Leaders Handbook.

Each module will be assigned to a named module leader who will take responsibility for the delivery of the learning, teaching and assessment of the module. In keeping with the policies and procedures agreed by the University, the key mechanism for quality control and enhancement at programme level will be the processes and procedures associated with the annual monitoring cycle which is formalised through the production of the Annual Monitoring Report (AMR). The AMR evaluates the programme delivery drawing on feedback from students, the professional body, external examiners and employers. Specific methods used for consulting students include the completion of Module Evaluation Questionnaires, Staff Student Consultative Committees and end of year group feedback sessions. The outcomes of this report are scrutinised and agreed at Programme Level with subsequent monitoring and review being formalised through the School Board and the Standards and Quality Committee.

Feedback will be provided to students in the following ways:

- Minutes and responses to SSCC's will be posted on the VLE.
- External Examiner reports and any associated actions arising will be presented to students in the November SSCC.
- An overview of the draft AMR and associated actions will be presented to the SSCC in November.
- An update on achievement of AMR Action plans will be provided in the March SSCC.

The Programme team meet monthly in order to monitor programme performance. Issues discussed include recruitment and retention, student feedback, assessment calendars, approaches to teaching and learning, coordination of site visits and guest lecture plans. Peer observation is undertaken; this includes classroom based observation as well as peer review of marking, assessment and feedback.

Whilst the Programme Leader is responsible for day to day management of the programme, Personal Tutors will ensure the welfare and development of each student on the programme throughout their period of study.

Feedback from students

Student Representatives will be elected from the student group, and will attend the SSCC meetings to provide a student input. The representative will also be able to bring urgent matters to the Programme Leader's attention by a direct approach.

Industrial Meetings

Regular meetings take place with industries training managers, chief engineers, factory/site managers and regional managers. This gives them the opportunity to voice their views relating to their employees progress, along with any problems or issues. Also, the company's current and future training needs can be discussed and developed. Regular site visits are undertaken by the work based learning mentor (and sometimes programme leader).

Open Door Policy

Staff operate an open door policy, whereby students may 'pop in' to have a chat about anything they may be concerned about, or need some help with. The feedback from the students, indicate that this is the most useful method of communicating and usually resolves any issues immediately.

Whilst the Programme Leader is responsible for day to day management of the programme, Personal Tutors will ensure the welfare and development of each student on the programme throughout their period of study.

Research and scholarship activity

The team are committed to ensuring that their knowledge remains current and relevant to changing practice. Additionally they ensure that they reflect on and develop their teaching practice through engagement teaching related CPD. The section below provides a brief outline of activities undertaken across the team.

Academic Research

The University Research [Centre for Applied Science, Engineering and Computing](#) brings together several strands of inter-related research of national and international standing. Key themes are Materials and Manufacturing (including advanced composites, large scale precision optics, water soluble polymers and photovoltaics), Internet technologies and Communication, and Engineering (fluid dynamics).

The 2014 Research Excellence Framework (REF) deemed more than 90 per cent of Glyndŵr University's electrical engineering, materials and computer science research assessed in a new survey is of international significance.

The Centre's focus is on applied research producing results which can be applied in a wide range of industry sectors.

Staff and research students are based at the University's main Plas Coch Campus in Wrexham, and at the specialist facilities in St Asaph (hosting large scale precision optics and photovoltaics research) and Broughton (hosting the advanced composite materials research).

Research groups with a focus on specific issues include:

- [Advanced Composite Training and Development Centre](#)
- [Analytical Decision Making Research Group \(ADM\)](#)
- [Centre for Water Soluble Polymers \(CWSP\)](#)
- [Computational Mechanics, Manufacturing simulation, Design and Optimisation Group \(CoMManDO\)](#)
- [National Facility for Ultra Precision Surfaces](#)
- [Centre for Ultra-realistic Imaging \(CURI\)](#)

The recent research undertaken by the School of Applied Science, Computing and Engineering in the area of automation and industrial engineering includes:

PCB Function Testing: investigation and development of automated test equipment for PCB functional testing. Functional PCB test beds have been developed, tested and integrated into manufacturing process of electric drive control systems.

Induction Motor Diagnostics using DSP: research has recently been completed on induction motor diagnostics, the outcome of the research is a method of DSP analysis of induction motor input currents to detect broken bars of the squirrel cage rotor winding. The proposed method has been successfully verified through a number of laboratory tests and is ready for industrial implementation to monitor the induction motor performance.

Electric Drive Inverter: an investigation and analysis of power electronic invertors for electric drives operating under random pulse width modulation. Implementation of random based control algorithm flats the spectrum density of the inverter output ac voltage and decreases the level of acoustic noise in an induction motor.

Non Linear Processes with deadtime: within industrial process control pH can be one of the most challenging parameters to successfully control with conventional proportional plus integral plus derivative (PID) controllers. PID algorithm being unable to successfully cope with the pH's highly non-linear gain and long deadtimes. Implementing predictive control schemes using mathematical models of the process, incorporating deadtime and gain compensation using fuzzy logic and artificial neural networks has been implemented on a 400 Ml/d Water Treatment Works which has providing a robust control system with optimal system response.

Industrial Consultancy and KTPs (Knowledge Transfer Partnerships)

Several members of staff have direct links with individual industries. Many of these have been a consequence of past students obtaining positions of influence. These have resulted in a range of involvements including:

- Individual consultancy to solve specific problems
- Utilising government-funded KTPs to develop longer-term projects
- Production of undergraduate and post graduate student projects

Examples of these activities are:

Use of the Materials Laboratory to investigate failure of components due to corrosion; which although was completed previously, still has relevant information that has been used to inform the Plant Equipment Fundamentals module.

A KTP project aimed at optimising control systems used in water treatment processes for a major utilities supplier has provided real data and insight into real control problems. This has contributed toward the development of the Diagnostics & Testing and Instrumentation & Control modules.

Attendance at seminars and professional training courses

All lecturers are expected to undertake 'scholarly activities' as part of their professional role and this may include research or other activities such as CPD (continuing professional development). Within this each staff member is expected to maintain the currency of knowledge and developments within his/her subject area. To do this staff are encouraged to attend seminars or to attend training courses. The form of these varies from one-day manufacturers' courses, through short courses to full academic courses, and even study for further degrees.

Information from the IET Power Electronics, Machines and Drives conference has helped inform the content of the Electrical Power Systems and Drives module.

Besides the more measurable forms of scholarly activity, most of the team are involved in day to day activities all of which contribute towards the currency of the curriculum development. This might include reading monthly journals, IET magazines, interesting

internet articles, manufacturers' information and most importantly relevant information from our industrial contacts.

The annual Profibus User Group is attended by team members. This has given an insight into key practical issues arising from the use of digital communications technologies in automated manufacturing and process industry applications. Covering the use of PROFIBUS and PROFINET in key application areas such as pulp & paper, chemical, utilities.

Other External Activity.

ERASMUS visits

Presentation at Conferences

Teaching Related Activity

- External examiners on related programmes
- Assessors on Professional Body Panels
- Engagement in Peer Observation

26 Learning support

Institutional Level support for students

The University has a range of departments that offer the support for students as:

- Library & IT Resources
- The Assessment Centre
- DisAbility Support Team
- Irlen Centre
- Careers Centre and Job Shop
- Zone Enterprise hub
- Chaplaincy
- Counselling & Wellbeing
- Student Funding and Welfare
- International Welfare
- Student Programmes Centre
- Glyndŵr Students' Union
-

School support for students

All students will be provided with a personal tutor and will have opportunities to discuss opportunities for personal development planning.

Programme specific support for students

On the individual level, students will be supported in their learning in the following ways:

- Students will be provided with a programme handbook which details their programme of study and signposts them to University level support mechanisms, policies and regulations.
- Student academic support needs will be met in the following ways.

- i. Individual tutorials with academic tutors to identify individual learning needs and aspirations which will then be monitored throughout the programme.
- ii. Following confirmed assessment of learning needs, the team will make reasonable adjustments to assessments in order to reflect the needs of students with support needs.
- iii. Tutors will use the VLE as a repository for course material and are actively engaging in developing opportunities to use this to provide feedback to students, promote online discussion and promote a VLE academic community.
- iv. Pastoral support will be provided by a named personal tutor who will remain with them for the duration of their study. Should a student wish to change their personal tutor during their period of study this can be accommodated.
- v. The University study skills tutor will be available to support and guide students for on-going individual and/or small group support on a self-referral basis throughout the year including the summer period.
- vi. Induction programmes will include Study Skills and IT and the VLE.
- vii. Each programme of study will have arrangements in place for a programme student representative. This representative will be invited to attend SSCC meetings and where appropriate, relevant Institutional meetings.

27 Equality and Diversity

Glyndŵr University is committed to providing access to all students and promotes equal opportunities in compliance with the Equality Act 2010 legislation. This programme complies fully with the University's policy on Equality and Diversity, ensuring that everyone who has the potential to achieve in higher education is given the chance to do so.