

Engineering at Glyndŵr



Faculty of Arts, Science & Technology



Wrexham – North East Wales





Wrexham – North East Wales



New Owners of Wrexham Football Club



Ryan Reynolds & Rob McElhenny



Wrexham Glyndŵr University – WGU



Full university status in 2008, formally known as the North East Wales Institute of Higher Education (NEWI)

Named after the medieval Welsh prince *Owain Glyndŵr*, who established universities throughout Wales in the early 15th century.



Wrexham Glyndŵr University – WGU



9000 – Students (*5000 Full Time / 4000 Part Time*)

450 – Academic Staff

500 – Operational Staff

Teaching Campus Sites

- Wrexham Campus
- Northop Campus

Research Sites

- OpTIC Glyndwr – *St Asaph*
- Composite Materials Research Centre – *Broughton*



Wrexham Glyndŵr University – Wrexham Campus

**ein campws.
our campus.**

Profwch Brifysgol Glyndŵr yn llawn a defnyddiwch y map i ddarganfod rhagor o'n cyfleusterau:

Get the full Glyndŵr University experience, use the map to find more of our facilities:

● Neuadd William Aston / William Aston Hall
● Theatr Nick Whitehead / Nick Whitehead Theatre
● Cegin Unedig / United Kitchens
● Yr Aistudfa / The Study
● Yr Oriel / The Gallery
● SCALE-UP
● Café Bar 46
● Bwyty 1887 / Restaurant 1887
● Canolfan y Dwygwyddas Creadigol / Centre for the Creative Industries
 Caen Ffi
 Sudio Ddeddi / TV Studio
 Laboratryddiaethau / Computer Labs
 SBD Cymru Wales
● Canolfan Edward Lhwyd / Edward Lhwyd Centre
 Holberton / Arts
 Llyfrgell / Library
 Bean Machine
 Deig Gynorth TG / IT Helpdesk
 Dyfais a Chyfyngwyoedd / Cases & Enquiry Point
 Laboratryddiaethau / IT Labs
 Ddarffwrdd / Lecture Theatres
 Cyfo a Lles Myfyrwr / Student Funding & Welfare

● Undeio Myfyrwr / Students' Union
 The Lady Llan
 Lofwr Myfyrwr / Students' Lounge
 Sŵp / Shop
 Bayddeddyd y Undeio / Union Offices
● Parllaneg / Engineering
● Ddarffwrdd John Treth / John Treth Lecture Theatre
● Y Ganolfan Iaith / The Language Centre
● Y Ganolfan Cwaraeon / Sports Centre
● Stadium Hoed / Hooley Stadium
● Bloc K, M a J / K, M and J Block
 Grŵpŷ Mŷ
● Canolfan Cestrï Ffinc / Casino Finc Centre
● Theatr Terry Hands / Terry Hands Studio
● Labordy Perfformiad Dynol / Human Performance Lab
● Canolfan y Pientwr, y Teulu a Chymdeithas / Centre for the Child, Family and Society
 Lloerwrta Aggregorion Dyfwrn / Little Soldiers Nursery
● Pentre Wrecsam / Wrexham Village
 Llety Myfyrwr / Student Accommodation
 Bayddeddyd Llety / Accommodation Office

Atweidd / Key
● Parc / Parking
● Derbyll / Reception
■ Man osgu campus lloerwrta / North campus pick-up point

Rydych chi yma
You are here

PRIFYSGOL
Glyndŵr
Wrecsam

Wrexham
glyndŵr
UNIVERSITY

- Engineering & Computing Labs
- TV & Radio Studios
- The Wall Recording Studio
- Scene of Crime Suite
- Human Performance Labs
- Art School
- Complementary Medicine Clinic
- Centre for the Child
- Centre for Creative Industries
- Drama Studios
- Libraries
- Student Support Services
- Accommodation

Wrexham Glyndŵr University – Wrexham Campus Accommodation



Wrexham Village

- 323 en-suite bedrooms
- 24-hour security/staff
- Secured car parking
- Fully furnished communal living area

There are also plenty of private accommodation in walking distance to the main campus



Wrexham Glyndŵr University – Wrexham Campus Sport Facilities



Excellent Sport Facilities

- International hockey pitch
- Sports hall
- Fitness centre
- Astroturf pitches
- Dance Studios

There are also plenty of fitness centres in walking distance from the main campus



Wrexham Glyndŵr University – Student Activities



IMechE UAS Challenge

- Student driven activity with full support from UAS Staff & team

TWP Racing

- Multidisciplinary student driven racing team

There are also plenty of external clubs to join locally such as North East Wales Mountaineering Club





Wrexham Glyndŵr University – Research Facilities



Advanced Composite Training & Development Centre

- Training on manufacturing processes and skills needed to produce composite parts.
- Collaborative R&D, research council funded collaborations, European union funding and contract research



OpTIC Glyndwr

- Leading centre for the research and development of cutting edge opto-electronics
- Precision polishing
- Glyndwr innovation

Wrexham Glyndŵr University – International Profile

We have full time students on our courses from:

- France
- Austria
- Belgium
- Spain
- Greece
- Finland
- Germany
- Portugal
- Sweden
- India
- Bangladesh
- China
- Nigeria
- Malaysia



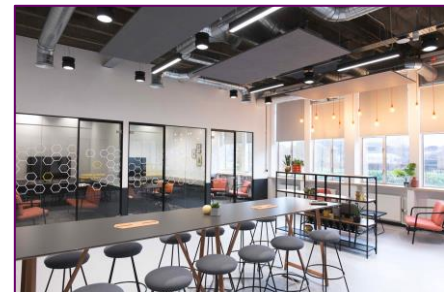


Why Study at Wrexham Glyndŵr University?



Campus 2025 is Wrexham Glyndŵr University's £80m strategy to enhance our local region and all our campuses to ensure that our students have the best facilities and learning environment.

Development of a new engineering building with focus on high value manufacturing programmes in the North Wales Growth Deal (NWGD). The facilities will focus on manufacturing, hydrogen cell technology, optics, and composites materials





Why Study at Wrexham Glyndŵr University?

**Yn falch o fod yn
2il yn y DU am
ansawdd addysgu**

Canllaw Prifysgol Times 2022

**Proud to be 2nd
in the UK for
teaching quality**

Times University Guide 2022



We've been ranked 2nd in the UK for teaching satisfaction in The Guardian University Guide 2022 and named one of the highest risers climbing 41 places!

Industrial Links

BAE SYSTEMS



Kellogg's



MBDA
MISSILE SYSTEMS

Accreditation*



**Institution of
MECHANICAL
ENGINEERS**

Improving the world through engineering

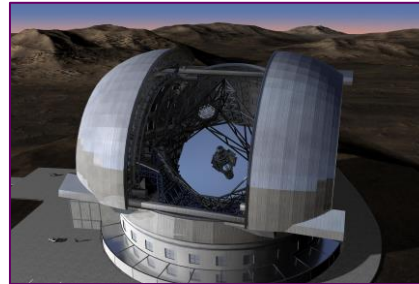


**energy
INSTITUTE**

*Subject to Accreditation

Innovation

*Ultra Precision Services in
polishing mirror segments for the
£900million European-Extremely
Large Telescope (E-ELT) project.*



Academic Teaching

*The academic staff have
valuable industrial experience*

*Staff members are engaging in
research within their field*

*Staff are always available to
help, such as maths support*

*The engineering department
employ a **Open Door Policy***

Why Study at Wrexham Glyndŵr University?

The university has a range of engineering facilities:

- Performance Car Laboratories
- Flight simulator
- Instrumentation laboratory
- Rapid prototyping facilities



The university has the latest industrial software:

- Ansys (CFD)
- Solidworks
- Autodesk Inventor
- Matlab
- Simulink
- Multisim





What Wrexham Glyndŵr University Can Offer You?

A Range of Undergraduate BEng (Hons) Engineering Top-Up Programmes:

Aeronautical & Mechanical Engineering
Automotive Engineering
Renewable & Sustainable Engineering
Electrical & Electronic Engineering
Industrial Engineering (Mechatronics)
Industrial Engineering (Management)

A Range of Postgraduate MSc Engineering Programmes:

MSc Engineering (Aeronautical)
MSc Engineering (Mechanical Manufacture)
MSc Engineering (Automotive)
MSc Engineering (Renewable & Sustainable Energy)
MSc Engineering (Electrical & Electronic)
MSc Innovative Design
MSc Composite Materials Engineering
MSc Unmanned Aircraft System (UAS) Technology



On Campus Provision – Academic Intake 23/24

BEng (Hons) – Pathways					BEng (Hons) Industrial Engineering - Pathways	
Aeronautical & Mechanical Engineering	Automotive Engineering	Renewable & Sustainable Engineering	Electrical & Electronic Engineering	Mechatronics	Engineering management	
ENG6A5 Mechanical Engineering Modelling & Simulation		[Opt.1] ENG6A5 Mechanical Engineering Modelling & Simulation Or [Opt.2] ENG6A6 Electrical and Electronic Engineering Modelling & Simulation	ENG6C2 Digital Signal Processing	ENG6A3 Mechatronic Applications	ENG6AD Maintenance and Safety Systems	
		ENG6B7 Smart Grids, Storage, and Energy Mix	ENG60D Electronic Design and Testing			
		[Opt.1] ENG6B8 Energy Saving, Low Carbon, and Recycling Systems [Opt.2] ENG6B9 Power Electronics and Electrical Machines	[Opt.1] ENG6C1 Wireless Communication and Antennas			
ENG687 Aerodynamics	ENG6B1 Automotive Dynamics			ENG60D Electronic Design and Testing	ENG6A1 Continuous Improvement and Lean	
ENG60K Aircraft Stability, Control & Design	ENG6B2 Modern Automotive Powertrains					
[Opt.1] ENG691 Composite Materials	[Opt.1] ENG6B3 Motorsport Practice	ENG6A8 Professional Engineering		ENG6AE Managing Workforce, Engagement & Commitment		
[Opt.2] ENG690 Structural Vibrations	[Opt.2] ENG6A8 Professional Engineering			ENG6A8 Professional Engineering		
SEM1/2		ENG6AG/ENG60G Project (40 Credits)				

Note: ENG60G Project is only for Aeronautical & Mechanical Engineering Students.



Online Provision – Academic Intake 23/24

	BEng (Hons) – Pathways		BEng (Hons) Industrial Engineering - Pathways
	Aeronautical & Mechanical Engineering	Electrical & Electronic Engineering	Mechatronics
SEM-1	ENG6A5 Mechanical Engineering Modelling & Simulation	ENG6C2 Digital Signal Processing	ENG6A3 Mechatronic Applications
	ENG687 Aerodynamics	ENG60D Electronic Design and Testing	
	ENG60K Aircraft Stability, Control & Design	ENG6C1 Wireless Communication and Antennas	ENG60D Electronic Design and Testing
SEM-2	ENG690 Structural Vibrations	ENG6A8 Professional Engineering	ENG6AE Managing Workforce, Engagement & Commitment
			ENG6A8 Professional Engineering
SEM1/2	ENG6AG/ENG60G Project (40 Credits)		

Note: All on online students are not eligible for any optional modules, the following modules have been preselected to ensure hybrid delivery and meeting AHEP-4 learning outcomes. The online provision is also subject to student numbers for academic year 23/24 the minimum number is 3 students per programme



What Wrexham Glyndŵr University Can Offer You?

A Range of Undergraduate BSc (Hons) Computing Top-Up Programmes:

- BSc (Hons) Computer Game Development
- BSc (Hons) Computer Game Design and Enterprise
- BSc (Hons) Computer Science
- BSc (Hons) Computer Networks and Security
- BSc (Hons) Computing
- BSc (Hons) Cyber Security

A Range of Postgraduate MSc Computing Programmes:

- MSc Computing
- MSc Computer Game Development
- MSc Computer Science
- MSc Cyber Security



Wrexham Glyndŵr University Summer School

<https://glyndwr.ac.uk/international-students/summer-school/>

WGU Summer School (Computing & Engineering)

Key course features

- Worth a total 60 UK university credits.
- On completion of the top-up course, you will have the opportunity to go onto the final year of an Honours Bachelor degree programme and complete the degree in one year, including your summer school.
- Learn key knowledge and skills which will help to prepare you for academic study on the final year of your undergraduate degree course.
- After completing the BEng/BSc final year, you will then have the opportunity to complete a Masters Degree in one year, hence two qualifications in just two years

Fees & funding

- All of our summer school courses cost £1500 (including deposit) which will cover course fees and accommodation (£1000 without accommodation)

Course dates

- This course will run on campus from **31st July 2023 – 21st August 2023**.



Wrexham Glyndŵr University Summer Schools

<https://glyndwr.ac.uk/international-students/summer-school/>

Computing Summer School

Key course features

- Understand the facts surrounding The General Data Protection Regulation (The GDPR) and how its introduction has transformed data protection laws in Europe.
- You will be able to discuss topics such as what rights someone has to their personal data, the legal basis an organisations will use to process personal data, Data Protection Impact Assessments, special category data and privacy by design and by default.
- Study security systems and ethical hacking in a hands-on way, predominantly led by the coverage of tools, techniques and systems that allow penetration testing to be carried out on computer systems and networks. Applying the understanding of the security that is required to understand hacking will enable you to relate this back to the GDPR.

Fees & funding

- All of our summer school courses cost £750 (including deposit) which will cover the cost of technical tuition and English language tuition.

Course dates

- This course will run for 4 weeks from **Monday 4th July 2022 – Friday 29th July 2022.**



Wrexham Glyndŵr University Engineering & Computing Top-Up Programmes

<https://centurusone.com/apply/1111>

BEng (Hons) Engineering & BSc (Hons) Computing Top-Up Programmes

Before you apply

- We advise international students to apply as early as possible to allow us sufficient time to process your application and to give you plenty of time to apply for your visa and make your travel and accommodation arrangements.
- For more information on how to apply please visit: <https://glyndwr.ac.uk/international-students/how-to-apply/>
- For student who wish to study the programme remotely, there will be a different application process. However, we strongly recommend student to attend on campus to partake in the full student experience

Fees & funding

- For international students, the cost is **£11,750**. However, with partnership agreement in place the cost is now **£8100** for academic year 2023/24.

Course dates

- This course will start from **September 2023** to **July 2024**. (Note: Latest start date is **11/10/2023**)



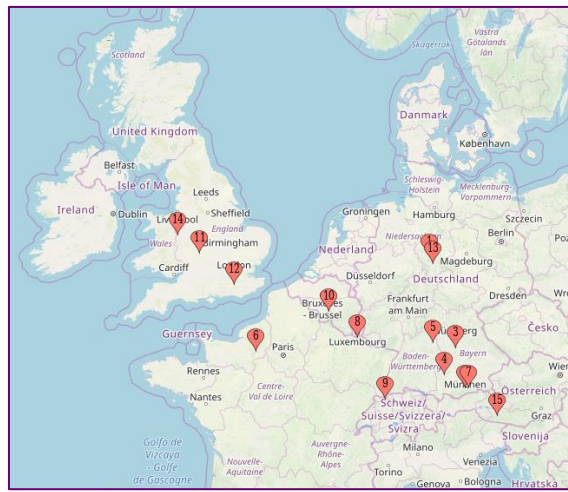
Wrexham Glyndŵr University Student Achievements



Over 1000+ students graduated from Glyndwr University



Wrexham Glyndŵr University Student Achievements





Wrexham Glyndŵr University Student Experience



Maya

*Aeronautical and Mechanical
Engineering*

“The student support at the University is very well developed. The University offers frequent training sessions for different skills. And due to the open-door policy, it is easier to ask a teacher for help or advice when needed. If you have the occasion to come to Wrexham Glyndŵr University, you have to take your chance. For an international student, it’s an experience during which you will improve your language skills and acquire knowledge in the domain you like.”



Christian

*Aeronautical and Mechanical
Engineering*

“The experience of studying in a different country with English as a main language offers us so many possibilities for jobs later on. The combination of Aeronautical AND Mechanical Engineering gives us a good understanding of flow behaviors, fluid dynamics and mechanical engineering skills. This raises our job market value to another level.”



Finally, we anticipate that this could be you in 2023 !!



Engineering at Glyndŵr



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Dilynwch ni
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