

Electrical and Electronic Engineering at Bristol

bristol.ac.uk/ug20-eleceng



Origin of our Course Offering



Origin of our Course Offering



A few years from now...





Electromechanical Design Project

Final Year Project – Poster Day







Bristol Graduate and Beyond



Higher for Bristol graduates

How will Bristol prepare me?

















bristol.ac.uk

Example first and second year units

Engineering Mathematics

Linear Circuits

Fields and Devices







Computer programming

Electronics

Switched Mode Power Supply







Example first and second year units

Digital Circuits and Systems





Embedded and Realtime Systems

VLSI Design

Electromechanical Energy Optoelectronics Devices Conversion and Systems







Split of Teaching and Independent Learning

Year 1		Year 2			
Lectures, seminars and similar 42%		Lectures, seminars and simila	ır 34%		
Independent studies	58%	Independent studies	66%		

Year 3		Year 4			
Lectures, seminars and similar	23%	Lectures, seminars and similar	22%		
Independent studies	77%	Independent studies	78%		

Proportion of independent working increases through the years bristol.ac.uk

Split of Exam and Coursework Assessment

Year 1		Year 2			
Written exams 6		Written exams	71%		
Practical exams	4%	Practical exams	8%		
Coursework	30%	Coursework	21%		

Year 3		Year 4		
Written exams 65%		Written exams	56%	
Practical exams	15%	Practical exams	16%	
Coursework	20%	Coursework	28%	

Practical examinations, i.e. project work, increases through the years bristol.ac.uk

Example Timetable

Week 3 - starting 15th October 2018

Day	Date	Start	Finish	Duration	Unit code	Unit desc	Activity type	Activity desc	Room	Staff
Mon	15 Oct	11:00	13:00	2:00	EMAT10100	Engineering Mathematics 1	Lecture	Engineering Mathematics 1 - Class 2 (Elec, CSE, Elec/Mech, EDES & Mech)	PHYS BLDG 1.11 TYNDALL	MORAN Rosalyn,DI BERNARDO Mario,HOGAN John,BENJAMIN Oscar
Mon	15 Oct	11:00	13:00	2:00	EMAT10100	Engineering Mathematics	Lecture	Engineering Mathematics 1 - Class 1 (Aero, Civil & EMAT)	PHYS BLDG G42 POWELL	MARUCCI Lucia,CHAMPNEY S Alan,DI BERNARDO Mario,BODE Nikolai
Mon	15 Oct	13:00	14:00	1:00	0 EENG_TEACHING_YR1	For teaching bookings for Electrical Engineering dept Y1	Ad hoc Booking	Careers Service Internships and Scholarships Session	GEOG BLDG 1.1S PEEL	MARTINELLO Magnos
Mon	15 Oct	16:00	17:00	1:00	EENG11001	Linear Circuits	Lecture	Linear Circuits Lecture 1	QUEENS BLDG 1.40 PUGSLEY	KLEMM Maciej,ARABI Eyad,PELHAM Timothy
Tue	16 Oct	11:00	12:00	1:00	0 EENG_TEACHING_YR1	For teaching bookings for Electrical Engineering dept Y1	Tutorial	Y1 Tutorial (EENG students only)		OIKONOMOU George, DOUFEXI Angela, RORISON Judy, WARR Paul, PIECHOCKI Robert, ARMOUR Simon, YU Siyuan, MELLIOS Evangelos, YAN ShuangYI, NEJAB ATI Reza, HARBORD Edmund, FORNET TI Francesco, KANEL LOS George
Tue	16 Oct	12:00	13:00	1:00	EENG11001	Linear Circuits	Lecture	Linear Circuits Lecture 2	GEOG BLDG 1.1S PEEL	KLEMM Maciej,ARABI Eyad,PELHAM Timothy
Tue	16 Oct	13:00	14:00	1:00	EMAT10100	Engineering Mathematics	Teaching Other	EMaths drop in examples class	QUEENS BLDG 1.68	BENJAMIN Oscar
Tue	16 Oct	14:00	15:00	1:00	0 EENG_TEACHING_YR1	For teaching bookings for Electrical Engineering dept Y1	Tutorial	Y1 Tutorial (CSE students only)		PAMUNUWA Dinesh,BULL David,AGRAFIOTI S Dimitris,DAHNOU N Naim
Tue	16 Oct	17:00	18:00	1:00	EMAT10100	Engineering Mathematics	Teaching Other	EMaths drop in examples class	MVB ATRIUM	BENJAMIN Oscar
Wed	17 Oct	10:00	11:00	1:00	EENG15600	Fields and Devices	Lecture	Fields and Devices	QUEENS BLDG 1.15 SLT	RORISON Judy,KLEMM Maciej,HARBORD Edmund

Term Structure

- Two 12 week teaching blocks
 - TB1, TB2 and TB4
 - Units typically span one TB, some span two (TB4)
- Two reading weeks respite
 - Weeks 8 and 18
 - Practical laboratories and drop-in classes continue
 - Lectures are suspended
 - *Reading week ≠ Holiday*
- Two exam periods
 - January and May/June

Teaching at Bristol – Pedagogy and Practise



Teaching Excellence Framework Silver: for delivering high quality teaching, learning and outcomes for its students. It consistently exceeds rigorous national quality requirements for UK higher education. **Going for gold...**

Teaching at Bristol – Laboratory Equipment



- £500k investment in state-of-the-art laboratory equipment
- Equipment sets available at each bench in the Electrical Labs
- Enhanced teaching capability equipment scripting/automation bristol.ac.uk

Teaching at Bristol – Extracurricular

- Custom made **Home Lab Kits** are available to borrow for experimentation in your own time
- Reinforce in-lab experiments and theory
- Investigate your own circuit ideas
- You have access to a wide range of components from our dedicated Electrical Lab technicians
- Video tutorials available

Probes



Standard Components

USB Oscilloscope and Waveform Generator

Multi-meter

Teaching at Bristol – Software Availability

- Access to a range of simulation software packages – enables virtual prototyping
- Mix of open source and licensed software
- Many packages including Microsoft Office and Mathworks Matlab available to students off campus



Feedback and Continual Improvement



Feedback and Continual Improvement

- Staff-Student Liaison Committee
 - Department, School and Faculty level committees with student representation
 - Facilities, Programme and Unit level feedback
- Unit Feedback
 - Official feedback requested at the end of each unit
 - Unit directors (lecturers) frequently request and welcome feedback
 - Verbal, online, anonymous routes
- End of Year Programme Review
 - Each department reflects on the year and makes adjustments and improvements
 - Long and short term aspirations

Facilities at Bristol



Facilities at Bristol

Queens Building

Merchant Venturers Building



Research at Bristol



Research at Bristol



Research at Bristol



- Industry provides **mentoring** to all first year students as well as **invited lectures**, **career presentations**, **internships** and **project support**
- Our research partnerships inform our teaching preparing you for the future

Scholarship and Funding Opportunities



Scholarship and Funding Opportunities

- We offer high-value scholarships from a range of sources:
 - E3 Academy
 - UK ESF
 - Industrial Funding
 - IET Funding (our accrediting body)





bristol.ac.uk

UK Electronics Skills Foundation

Join us at Bristol...



www.bristol.ac.uk/eeng/