Professional and Executive Programmes
Part-time Courses 2015
Foreword – Chairman and Founder

We have been working collaboratively with companies since 1980 to develop and deliver our unique combination of academic programmes with industrial relevance. Our goal has always remained the same, which is to develop, in collaboration with our industry partners, managers and leaders who have the skills, knowledge and capability to succeed in a constantly changing global environment.

Today companies must be able to adapt to the changing landscape, which includes having leaders with an appreciation of all aspects of management, as well as an understanding of science, technology and engineering.

We are one of the world’s leading research and education groups with state-of-the-art facilities and staff who have worked in industry as well as academia. This combination means we are highly regarded within the business, engineering and technology sectors for providing industry relevant training.

We have continued to attract high numbers of students and now we deliver postgraduate and post-experience education to over 1,000 professionals a year both in the UK and overseas.

The launch of our new Applied Engineering Programme, means we now offer a full range of part-time programmes at both undergraduate and postgraduate levels.

Your degree will be awarded from the University of Warwick, giving you an internationally recognised qualification from one of the UK’s most innovative and highly ranked universities. A number of our courses are approved by professional bodies which will enable you to build towards Chartered status.

S.K. Bhattacharya

Professor Lord Kumar Bhattacharya, Kt, CBE, FREng, FRS
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An academic department of the University of Warwick, WMG is an international role model for how universities and business can successfully work together.

In 2014 we launched three new R&D centres: the Energy Innovation Centre, the Automotive Composites Research Centre, and the International Institute for Nanocomposites Manufacturing. The National Automotive Innovation Centre will be opening in late 2016.

An academic department of the University of Warwick, we are at the forefront of innovative technology, leading major multi-partner projects to create and develop exciting new processes, products and services that can lead to major breakthroughs and be of huge benefit to organisations both in the UK and globally.

These projects have seen us impact a wide range of sectors including automotive, aerospace and defence, digital, construction, energy and utilities, finance, food and drink, healthcare, IT, pharmaceutical and rail.

We have collaborated with government sponsored bodies, the NHS, innovative SMEs and global corporations such as Airbus, Arup, AstraZeneca, Auto Insulations Limited, BAE Systems, Bladon Jets (UK) Ltd, Bosch Ltd, Buehler, Drayson Racing Technologies LLP, GE Healthcare, GlaxoSmithKline, Jaguar Land Rover, Lloyds Banking Group, Network Rail, Nikon, Rolls-Royce, Siemens, Simpact Limited, Tata Motors, Tata Steel and TVS Motor Company to name but a few.

We are a leading centre for world class management studies, offering unrivalled innovative postgraduate and professional education programmes that meet business and industry needs. We attract high calibre students and executives and in the academic year 2013/2014 we awarded over 900 Master’s Degrees and around 400 Professional Awards.

Being awarded the Queen’s Anniversary Prize for Higher and Further Education in 2009 was a tremendous honour and highlights that our philosophy of providing academic excellence with a clear business focus is a winning formula.

The development of the WMG Academies for Young Engineers is part of two new and exciting learning campuses catering for 14 – 18 years olds from Coventry, Warwickshire, Solihull, and Birmingham. We will be working alongside some of the largest employers in the region to deliver a dynamic curriculum, underpinned by a radical learning and teaching approach designed around the needs of both students and employers.
Introduction to Professional and Executive Programmes

Our award-winning executive development and professional education programmes have been created in partnership with industry to ensure they provide the necessary applied skills and latest thinking to benefit both the employer and the employee.

We understand that one of the greatest strengths an organisation can have is its staff. Employers can drive the business forward but it is vital that employees have the skills, knowledge, and confidence in their abilities to enable a business to prosper. This is why we have created programmes to fit the needs of all staff, regardless of their educational background.

Our part-time Professional and Executive Programmes have been developed in partnership with engineering, manufacturing, technology and service-led companies for the benefit of both employer and employee.

From the content to the delivery mode, our programmes meet the demands of high performing individuals wishing to enhance their education and skillset whilst remaining in full-time employment. Our approach to education is about adding real value and benefits to a company through its people.

In 2014 we launched the Innovation Business Leadership programme, directed primarily at fast moving SMEs who rely on innovation to gain competitive advantage. New for 2015 is our Master’s degree in International Trade, Strategy and Operations, developed in collaboration with, and formally accredited by, the Institute of Export and International Trade.

We can offer delegates an ‘all inclusive’ package including tuition, accommodation and meals during modules, with flexible scheduling and study times. Our extensive pool of modules allows you to build a tailored programme, and all of our courses are designed in collaboration with, and regularly reviewed by, our industrial partners.

A number of our programmes are accredited by professional membership bodies and we also work directly with companies to build educational programmes customised to their own business requirements.

Our programmes offer unrivalled networking opportunities for studying alongside peers from a wide variety of multinational organisations, such as Airbus, AstraZeneca, Caterpillar, UTC Aerospace Systems, Jaguar Land Rover, Lloyds Banking Group, Network Rail, Rolls-Royce and Siemens.

With variable start dates throughout the year and a number of pathways available, including short courses and intermediary awards, we can offer a programme to suit both you and your company.

Professor Sujit Banerji
Executive Director of Postgraduate Programmes

go.warwick.ac.uk/wmgptmasters
Because we understand that circumstances change, we have designed our programme pathways to be flexible and to allow you to study and progress in a way that suits both you and your company.

Undergraduate Programme
Our pioneering Applied Engineering Programme is for employees of engineering, manufacturing and technology-led companies who want to gain a university degree while working. You may study as part of a cohort from your company, or as an individual with company support. You will attend modules at the University of Warwick on a block release basis over four years to earn your Bachelor's degree in Engineering. See pages 16 and 17 for more information.

Post-experience Programme
If you have professional experience but lack formal higher education qualifications, our Master’s Foundation Programme will prepare you for studying at postgraduate level.

The taught elements of the programme can be taken individually as short courses to provide quick and valuable learning experiences for individuals or teams within a company, or the programme can be taken as a whole, to prepare you for entry onto Master’s level programmes. See pages 14 and 15 for more information.

Postgraduate Programme
As with the Master’s Foundation Programme, all of our taught modules at Master’s level can be taken individually to boost skills and knowledge or to see if postgraduate study is for you. If you decide to commit to taking a qualification, you can enter onto either the Postgraduate Award, Postgraduate Certificate, or Master’s degree pathways.

Successful completion of each of these postgraduate qualifications means that you can transfer credits and fees and join the next level at the corresponding point. For example, if you successfully complete three modules and post-module assignments to achieve the Postgraduate Award, you may then join the Postgraduate Certificate pathway at the halfway point, completing three further modules and post-module assignments to achieve the Certificate.

The diagram below illustrates the various routes and the time required to undertake each option. See pages 8 - 13 for more information.
Postgraduate Pathway

Successful completion of the MSc Foundation gains entry to any of the above courses. Alternatively there is the possibility to extend the programme to achieve an MEng.

MSc Programme Breakdown

Over the course of the three years you will spend one quarter of your time in the classroom with us, and another quarter working on your post-module assignments back in your workplace. The company-based project/dissertation makes up the final 50% of your degree and the subject matter will be directly applicable to whichever stream you have elected to follow.
Our postgraduate programmes are designed to give you the flexibility and choice to direct your own education in a way that works for you.

We offer seven part-time Master’s (MSc) degree streams. Each is also available as a shorter qualification with the potential to upgrade (see diagram on page 7) if you cannot commit to three years of study at present.

Entry Requirements
You should be currently employed, with at least two to three years of appropriate professional experience. You should also have at least a second class honours degree, or have completed our Master’s Foundation Programme.

If you have an HND/HNC and professional qualifications, you may be considered to start on an intermediate qualification such as the Postgraduate Award or Postgraduate Certificate, with the opportunity for progression to the MSc.

Delivery and Assessment
There are no written examinations for our postgraduate programmes, instead assessment is achieved through work based post-module assignments, plus a company-based dissertation for the Master’s degree.

We believe that applying the ideas, tools and techniques learned on the programme directly into your work environment is the best way of embedding learning in a manner that is meaningful to both you and your employer.

In order to achieve a Postgraduate Award you must complete three modules within a twelve month period. The Postgraduate Certificate requires completion of six modules within eighteen months.

To be awarded your Master’s degree you must complete ten modules, two supporting events (Induction, Research Methodologies) and your company-based project / dissertation. This typically takes three years. Please see modules table on pages 22-23 for core requirements for each award level.

Each module runs over four and a half days (Monday morning to Friday lunchtime) with lectures, seminars and group tasks, plus independent study, and is followed by a post-module assignment. Modules are fully residential with accommodation and meals provided at one of the University of Warwick’s award-winning conference centres.

Dissertations are supervised by a WMG tutor and a supervisor from your company and make up 50% of the Master’s programme.

“After graduating with my Bachelor’s degree in Electrical Engineering and then working for four years as a Commissioning Engineer in the Power and Energy industry, my knowledge and background were purely technical.

When I moved across from a technical to a management position, I realised that being good in maths, technical applications and logic doesn’t guarantee that you can be a good manager or a leader (although having those skills and knowledge do help along the way).

That is why I came to WMG, to improve my skills in management, and the MSc in Engineering Business Management provides a broad, deep and integrated understanding of the main business functions within a modern, international context, rather than specialising in one particular business area, which is perfect for me.

On top of that, I’ve gained more friends that have a similar wavelength of thinking and interest from different industries.

I would definitely recommend anyone to pursue their study with WMG, and to be honest, I do miss it!”

Alfred Edward
Lead Tendering Engineer, Gunning Transmission and Distribution Services Ltd
MSc Engineering Business Management (EBM)

Manage and lead technology based organisations

Why Enrol?
The Engineering Business Management MSc focuses on the key ‘value adding’ activities for business: marketing, product and process development, operations, logistics and supply chain management, and exploitation of competitive technology.

You will gain a broad understanding of the processes and technologies used by engineering businesses and the analytical tools to improve both internal and external operations.

You will develop skills for the research, analysis and evaluation of complex business problems and gain a methodical approach to problem solving and decision making.

This course is IET accredited.

Core Modules

Financial Analysis and Control Systems

Understand the basic accounting principles, terminology and techniques required to enable you to interpret financial reports and management accounting practices. Contribute to departmental financial planning and control.

Elective Modules

In addition to the core module you must select at least five operations and technology modules, at least one business module, and any three others to make a total of ten. See full list on pages 22-23.

Andrew Barnes
Vice President Operations, L3-TRL Technology

I qualified as an Industrial Engineer, before moving into Planning then Operations Management. I’ve held operations leadership roles in electronics manufacturing businesses serving aerospace, defence, security, and broadcast industries. I am now Vice President of Operations for L3 TRL Technology.

I chose the MSc in Engineering Business Management because it best matched my requirements as a senior executive in an engineering / technology business; I saw it as being akin to a ‘techie MBA’.

I would say the experience has matched my high expectations of studying an MSc at WMG. There was plenty of guidance and support for the mature student who was unfamiliar with things like the requirements of academic writing.

The administration and communication for a part-time student was excellent and the facilities and resources were very good. The module content and delivery enabled me to learn and develop, and the mix of students from different backgrounds and industries helped to enrich the experience.

Studying for the MSc has certainly helped me, and I feel better equipped to do my job. Indeed my dissertation project looked at achieving competitive advantage through operations strategy with a case study of L-3 TRL. The resultant operations strategy is currently being implemented.

Iet Accreditd Programme®
Opportunities to Specialise

While our Engineering Business Management MSc offers our broadest management education for those in engineering or technology led companies, we also offer the opportunity to focus your management learning within a specialist area.

You may be thinking about the direction you want your career to take, or you may already be working in a particular area and want to improve your knowledge and gain formal recognition of your skills.

Choosing one of our management specialisms means that you will have more core module requirements to ensure you have gained sufficient knowledge in all of the areas vital to your chosen stream, and your dissertation will also be focused in that area. As dissertations are company-based, this will allow you to really delve deep into your subject area and apply it directly into your workplace.

For 2015 we are delighted to offer a new MSc stream in International Trade, Strategy and Operations, which has been accredited by the Institute of Export and International Trade.

Our Programme and Project Management stream is suitable for project managers in a wide range of industries who want to learn the tools and methodologies to optimise business performance.

If you are interested in Supply Chain and Logistics Management then our course is accredited by the Chartered Institute of Logistics and Transport, the IET, and by the Chartered Institute of Purchasing and Supply.

Engineers looking to become managers may wish to consider Manufacturing Systems Engineering. Our Cyber Security and Management stream is ideal for anyone looking to take a leading technical or managerial role in an organisation critically dependent upon data and information communication technology.

Each stream is also available as a shorter qualification (Postgraduate Award or Postgraduate Certificate) for anyone unable to commit to three years of study at this time. The credits gained and fees paid can be carried over to the next level as long as this is done within 5 years. See pages 22-23 for module requirements at each award level.

I chose the MSc in Manufacturing Systems Engineering after doing thorough research....This programme ticks all the boxes that I expected from postgraduate study in manufacturing.

Kudakwashe Nyakupinda, Multi-Skilled Maintenance Engineer, Vion Food Group UK

MSc Service Management and Design (SMD)

For leaders and managers in service-based industries

Why Enrol?

This course enables managers and business leaders to take a ‘systems’ view of services in relation to their product, considering its design, development, delivery, maintenance and eventual replacement, bringing together a mesh of organisations, people, technologies and information to deliver long term value to the customer.

Many businesses have been driven to reinvent themselves to meet global challenges as they change their business model for commercial advantage. This transition requires strong leadership that blends multidisciplinary expertise.

Learn the systems and techniques used to manage service industries and the creation of value in the business across suppliers within the industry, and within industry processes.

Core Modules

- Service Design and Delivery
- Service Support Technologies
- Financial Analysis and Control Systems

Elective Modules

You will need to select a further seven modules from the list on pages 22-23 to make a total of ten.
MSc Programme and Project Management (PPM)

Successful project management in a multi-project business environment

Why Enrol?
Our Programme and Project Management MSc will enable you to operate effectively in a multi-project/programme business environment.
Participants on this programme tend to have a wide range of employment backgrounds, but all are currently involved in, or wish to move into, project/programme management in their chosen field.
You will learn the methodologies, tools and principles for successful and profitable project management and to optimise business performance.

Core Modules
▪ Project Planning, Management and Control
▪ Leading Change
▪ Managing the Multi-Project/Programme Environment
▪ People in Organisations
▪ Financial Analysis and Control Systems
▪ International Joint Ventures

Elective Modules
You may select any four other modules. See full list on pages 22-23.

MSc Supply Chain and Logistics Management (SCLM)

Become a change agent and leader for effective supply chains in technology based organisations

Why Enrol?
This course is designed to further develop the skills of those working in logistics, purchasing and supply chain in manufacturing based enterprises, as well as supporting service organisations.
It will provide you with an understanding of markets, product and process development, and financial management to ensure reliable, cost-effective and high quality supply.
This course is IET, CIPS and CILT5 accredited.

Core Modules
▪ Supply Chain Management
▪ Logistics and Operations Management
▪ Financial Analysis and Control Systems
▪ Procurement and Inventory Management
▪ Legal Aspects of Global Business
▪ People in Organisations
▪ Operations Strategy for Industry

Elective Modules
You will need to select a further three modules to make a total of ten. See full list on pages 22-23.
MSc Cyber Security and Management (CSM)

Take a leading technical or managerial role in an organisation critically dependent upon data and information communication technology.

Why Enrol?
Our MSc programme will provide a focus to the strategic deployment and implementation of cyber security within an organisation. We want to develop strategic thinkers who understand the cyber threat to an organisation and its resources and are able to build and manage secure systems that support the strategic growth of a business.

Core Modules
- Security Architectures and Network Defence
- Cryptosystems and Data Protection
- Information Risk Management and Governance
- Information-Security Governance
- Digital Forensics, Evidence and Intelligence

Elective Modules
You will need to choose a further five modules to make a total of ten. Please see the complete list on pages 22-23.

MSc Manufacturing Systems Engineering (MSE)

Designed for those with an engineering background who wish to learn more about manufacturing systems and operations management.

Why Enrol?
This course is particularly suitable if you are looking to make the transition from Engineer to Engineering Manager. You will develop an understanding of the concepts of manufacturing engineering systems and the skills to analyse, design and implement them in practice. This will be combined with a broad understanding of the strategic and operational management of organisations.

Core Modules
- Advanced Materials and Processes
- Applied Statistical Methods
- Operations Strategy for Industry
- Product Design and Development Management
- Project Planning, Management and Control
- Quality Management and Techniques
- Supply Chain Management

Elective Modules
You will need to select a further five modules to make a total of ten. Please see the complete list on pages 22-23.
New for 2015

MSc International Trade, Strategy and Operations (ITSO)

Trade successfully in international markets

Why Enrol?
The Programme provides a thorough knowledge and understanding of the management and operational requirements necessary to trade successfully in international markets. Relevant to all organisations trading internationally, and to Trade Advisors in all sectors including engineering, retail, manufacturing, wholesale, financial services and the service sector, the programme is heavily focused on the application of theory into practice, and how the skills developed throughout your studies will be used to best advantage in a professional environment.

The breadth of the programme will enable you to gain a clear overview of all the elements of international trade, whilst giving the opportunity to also focus or specialise on a particular aspect of interest, including; transportation and logistics, customs and the legal aspects of international business, business development, relationship management and negotiation, and implementation of strategy.

You will develop a broad set of skills which will enable your involvement in the whole business process, from initial engagement with a new market right through to the delivery of a product or service. This course is IOE accredited

Core Modules
- Financial Analysis and Control Systems
- Financial Strategy
- International Joint Ventures
- Legal Aspects of Global Business
- Transportation Techniques and Management
- Strategic Marketing

Elective Modules
You should select a further four modules from the elective ‘Options’ set out on page 23.

quoted text: “The Institute of Export and International Trade is proud to be working with WMG, University of Warwick on this new Master’s degree. It is proving to be an exciting new development in moving towards a truly global marketplace.”

Lesley Batchelor OBE, Director General IOE International Trade
For those with professional experience but not formal higher education qualifications we offer a Master’s Foundation programme. As with all of our courses, it has been designed and delivered in partnership with a range of companies for the benefit of both employer and employee.

**Why Enrol?**

If you have appropriate professional experience, but no previous higher education qualifications, then completing our Master’s Foundation Programme will kick start your management education and enable you to go on to enrol on a Master’s (MSc) degree course.

We offer a structured set of modules which encourage delegates to reflect on their individual role within the business, as well as developing a much greater appreciation for the wider business operations.

On completion of the programme you will receive a Post-experience Certificate in Engineering Business Management, which will give you direct access to any of our Master’s degree streams.

**Delivery and Assessment**

You will complete seven modules (six Foundation level, one MSc level) and one work based project within an eighteen month period. The six core Foundation level modules each run over two and a half days, while the MSc level module is four and a half days.

There are no written examinations for the Master’s Foundation Programme, instead assessment is completed through post-module assignments and you must also complete one longer work based project.

We believe that applying the ideas, tools and techniques learned on the programme directly into your work environment is the best way of embedding learning in a manner that is meaningful to both you and your employer.

Modules are fully residential with accommodation and meals provided at one of the University of Warwick’s award-winning conference centres.
My educational background is apprentice time served, with mainly in-house training courses. The Masters foundation was my first foray into formal education for many years, but was absolutely the right course to get me back into education and learning to learn again.

Through my employers, I was offered the opportunity to gain an external qualification which would develop me personally and add value to the business. There were a number of routes I could have taken with different universities in the Midlands area but I chose WMG at Warwick as it offered the best range of modules and subject matter that was most relevant to me both at the time, and thinking of future roles.

The standard of modules, delivery and supporting notes etc has been excellent throughout, the material taught is relevant and applicable in ‘real life’ back at work, and applying tools and techniques based on academic learning has benefited both me and the company I work for.

I have recommended the same course and route to a number of people back at Rolls-Royce, and sent some of my working team leaders on short courses (working in teams etc) to help prepare and develop them for future roles.

I am now studying for my MSc in Engineering Business Management and hope to complete in 2015.

Paul Twigger
Project Manager, Rolls-Royce
Undergraduate Programme

Our pioneering Applied Engineering Programme enables you to study for your Bachelor’s degree in engineering while in full-time employment.

Why Enrol?

The Applied Engineering Programme is for employees of engineering and technology-led companies who do not possess a university degree. Upon successful completion of the four-year programme you will be awarded a Bachelors in Engineering (BEng) degree from the University of Warwick.

For outstanding candidates there is the opportunity to extend the programme to study for a Master’s degree in a chosen field, e.g. MEng or MSc.

The curriculum has been reviewed by a number of employers, including Jaguar Land Rover, to ensure it meets the specific needs of the engineering industry and also enables participants to make an immediate and relevant impact in their business.

With participants coming from a range of companies and sectors there will be numerous opportunities to learn about how others are doing things and best practice across different sectors.

A ‘block release’ schedule means you come to the Warwick campus for each module and then go back to your company. This enables you to embed what you have learned straight back into your working environment.

As a student at the University of Warwick, you will have access not only to WMG tutors, facilities and an online learning environment, but you will also be able to access resources and facilities across the university campus, both while you’re here for modules and remotely.

Entry Requirements

You may come from any area of your company and may be of any age. We have students who have recently completed standard apprenticeship schemes, others who are part-way through their Higher Apprenticeship, and more experienced staff looking to further develop their engineering skills and add value to their company.

You will need to prove company support and will need to be of a good standard in A Level Maths and preferably also Physics. If you don’t have these particular qualifications we can assess your ability using our own tests.

Delivery and Assessment

In Years 1 and 2 you will need to complete six modules per year, covering a broad range of subjects. In Years 3 and 4 you will need to complete a total of ten modules (allowing for specialisation), plus two individual projects and a group project (see pathway diagram on pages 6 and 7).

Each module will run over five days, Monday to Friday. In addition to the normal lectures, laboratories, seminars and tutorials, you will have access to an online Virtual Learning Environment and will undertake activity-based learning which will be embedded throughout the programme.

In Years 1 and 2 examinations and assignments are integrated throughout the year, allowing for continuous assessment, In Years 3 and 4, the emphasis is on post-module assignments rather than formal written exams. This will enable you to apply what you have learned directly back into your working environment and to embed that knowledge in a real world manner that is applicable and meaningful to both you and your company.
I have been directly involved in manufacturing for nearly 30 years now, predominantly in the aerospace industry, but for the last two years in automotive at JLR. My career has been progressive, working from the shop floor into operations management roles and apart from the 2 HNCs gained early in my career, training has been aligned to work based requirements.

Since leaving the aerospace industry, the fact that I did not possess a degree initially stalled a number of career opportunities, so I jumped at the opportunity of the AEP: primarily to open up career opportunities, but also to link the years of practical experiences with the theoretical models. AEP enables you to study, but also share experiences with a wider audience.

I am greatly enjoying my time back in the classroom, and being new to the company it has enabled me to open up a network of contacts quickly. As more and more companies sign into the programme, students’ networking ability will greatly increase, enabling greater cross fertilization of ideas which can only benefit our business.

To date the learning has been largely broad based, bring all candidates up to the same level as everyone has different levels of understanding across the curriculum. Personally, I am looking forward to Year 3 at which point I can refine the modules on offer to support my recent change in career. At this point, I see the learning going hand in hand with my day job.

Potential candidates need to understand that this is a fantastic opportunity, but also a huge commitment. They cannot just turn up at University every six weeks and expect to pass the degree course in four years’ time. Current students are now starting to see that the level of effort put in is reflected in the marks awarded.

In the third and fourth year students specialise in a chosen stream. Currently these are:
- Manufacturing Systems
- Product Creation
- Business
- Rail

Other streams appropriate to sectors such as aerospace are under discussion.

### Core Modules for Year 1
- Applied Engineering Design
- Electrical and Electronic Principles
- Engineering Business and Operations Management
- Engineering Mathematics
- Materials and Processes
- Mechanics and Energy Methods

### Core Modules for Year 2
- Analytical Modelling and Simulation
- Design for Manufacturing
- Dynamic Mechanics and Thermofluids
- Engineering Systems
- Instrumentation and Control
- Quality Methods

### Modules for Years 3 and 4
- Advanced Quality Techniques
- Aerodynamics
- Asset Management
- CAD/CAM
- CAE (CFD, FEA) & Physical Correlation
- Electrical and Electronic Systems
- Industrial Processes
- Logistics
- Materials for Advanced Application
- Measurement Systems and Metrology
- Mechatronics and Systems Control
- Productionising Designs
- Project Management and Leadership
- Railway Infrastructure Part 1
- Railway Infrastructure Part 2
- Stress Analysis
- Supply Chain Management
- Sustainable Energy & Storage Systems

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- Product Creation
- Business
- Rail

Other streams appropriate to sectors such as aerospace are under discussion.

### Mike Gardner
Work Force Readiness Supervisor, Vehicle Operations, Jaguar Land Rover

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"
We specialise in creating programmes suited specifically to your business and we have partnered with many global companies to deliver educational solutions that meet their particular business needs.

We can help you to develop your staff into confident, highly skilled individuals, contributing to significant improvements within the company and of valuable benefit to your business.

The following are just some examples of what collaboration between a forward-thinking company and a leading centre for world class management studies can accomplish. For more information on how we can help your business please contact us using the details on the back cover.

**Manufacturing Awareness**

This accredited course is aimed at companies, or groups, that work with manufacturing businesses. It helps delegates become more effective in engaging with their manufacturing business clients and contacts.

Delegates gain a better understanding of the needs and processes of manufacturing companies, and of manufacturing sector business concepts, terminology, issues and complexities.

The content helps them to see sector issues from the viewpoint of the manufacturing business manager.

This highly valued course has been run extensively for managers at Lloyds Banking Group and has also been invaluable to Made in the Midlands, the organisation which exists to support and promote the interests of the manufacturing and engineering community in the Midlands, and for a variety of other organisations in the financial and legal sectors.

“We have continued to invest heavily in the education of our team of relationship managers to provide them with valuable sector insight and understanding to support our clients in the manufacturing sector.”

Dave Atkinson, Head of Manufacturing & Key Markets, Lloyds Banking Group

**International Custom Programmes**

We also specialise in designing intensive courses for overseas companies, delivered both at overseas locations and on the Warwick campus.

Since 1998 we have enjoyed a close working relationship with the Chinese government body responsible for all overseas training; the State Administration of Foreign Experts Affairs (SAFEA). We have worked with SAFEA to deliver a wide variety of training courses tailored to the needs of managers from most of the major industries and institutions across China. This includes companies in banking, construction, oil and gas, the automotive industry, aviation, aerospace, transport, and defence, in addition to the provincial governments.

WMG/SAFEA Alumni have now reached very senior positions in many areas of Chinese industry and government.

Over the past six years we have also specialised in designing intensive short courses in the UK for senior managers...
Supply Professionalism Programme

The Supply Professionalism Programme was developed by WMG and partner companies in the process industry, and is now the educational platform for all supply managers at AstraZeneca, Fuji DB, PZ Cussons, GSK and Syngenta. As well as being awarded a Postgraduate Certificate, successful participants gain a route to a Master’s degree.

The programme includes eight dedicated modules as well as company-based assignments and projects.

- Strategic Decision Making
- Personal Leadership and Change
- Operations Management and Lean Supply Chains
- Supply Chain Strategy
- Compliance Management
- Performance, Evaluation and Control
- Product Lifecycle Management
- Innovation

The programme is now open to a wider network of companies, beyond the original partners, who have a challenging and complex supply process.

“...its continuous refinement to meet the changing needs of the companies. It is a fundamental platform for capability development."

Mark Peacock,
Head of Global Supply, Syngenta

UTC Aerospace Systems Leadership Scheme

We were asked by Goodrich Engine Control Systems to further develop their Operational Leadership Development Programme for the engine control area of their business. This involved delivery in both the UK and USA and expansion of the programme to cover the Actuation Systems part of the business. Since Goodrich’s takeover by UTC, we have continued to work with the organisation to develop and deliver the programme in a highly changing and dynamic environment.

The UTC Aerospace Systems Operational Leadership Development Programme leads to a Postgraduate Award in Business Leadership, with modules in Financial Analysis and Control Systems, Leading Performance and Creating Change Capability, as well as a company-based project.

“Over the last five years we have worked in partnership with WMG to create a world class leadership development programme. Investing in our people is the key to long term sustainable organisational performance. We operate in a competitive market and our people are the difference maker in what we achieve. The programme we have developed with WMG balances the theoretical and the practical allowing immediate application of new skills, abilities and knowledge throughout our business.”

Grant Weston,
Learning and Development Manager, UTC Aerospace Systems

Technical Accreditation Scheme

Alongside the Universities of Cranfield, Loughborough and Coventry we have developed a unique portfolio of taught postgraduate courses tailored to the needs of Jaguar Land Rover (JLR) employees working within the fields of future vehicle technologies and virtual engineering. These form the heart of JLR’s Technical Accreditation Scheme (TAS).

The scheme allows JLR employees to select from a variety of Master’s level modules according to their needs within the business, as well as their individual and professional development needs. Assessment is through a post-module assignment and credits can be put towards a number of qualifications, ranging from a Postgraduate Award to a Master’s degree.

Modules are also now also delivered in conjunction with the Universities of Bradford, Southampton and York.

“The development of our engineers is business critical to Jaguar Land Rover, ensuring continued innovation and technical excellence in the delivery of premium cars and all-terrain vehicles. The Technical Accreditation Scheme is our innovative and progressive approach to skills growth, making the most of the excellence of our university partners in delivering cutting edge education.”

Jo Lopes,
Head of Technical Excellence, Jaguar Land Rover

In India we have delivered a major educational programme with the Confederation of Indian Industry in Mumbai, as well as creating bespoke programmes for companies such as Bharat Forge Ltd, flagship company of the $2.4 billion Kalyani Group.

In China we have worked in partnership with universities in the aviation and automotive sectors. Our partners in this process include Aviation Industry Corporation of China (AVIC), Beijing Academy of Science and Technology (BJAST) and Zhejiang Province Economic and Information Commission (ZPEIC).

These courses are designed for the particular organisation and comply with Chinese Government regulations for overseas training. They normally consist of an intensive three-week period of taught modules relevant to the specific partner, plus industrial and cultural visits.

from selected Chinese companies and organisations. Our partners in this process include Aviation Industry Corporation of China (AVIC), Beijing Academy of Science and Technology (BJAST) and Zhejiang Province Economic and Information Commission (ZPEIC).
Industry Partnerships

For over 30 years we have built strong links with industry and forged close strategic partnerships with key industrial bodies and government institutions.

This has contributed to our ability to deliver programmes that are relevant to the needs of any forward-thinking company. We offer tailored solutions through our research and education programmes to those companies who want to change how they do things, bring in new techniques, or extend their capabilities.

If one of our open programmes doesn’t fit your requirements then please speak to us about how we can create a custom programme for your company. See back cover for contact details.

Partners and companies sending delegates on our Professional and Executive Programmes include:

ABB Limited  GE Energy  RCUK Shared
Agip KCO          GMX          Services Centre Ltd
Airbus           GlaxoSmithKline  Rolls-Royce
Aircelle         Granite Services  Royal Air Force
Alcoa            International  Santander
Aston Martin      Gunning Transmissions and  Schlumberger
AstraZeneca      Distributional Service  Sellafield
Avecie           Heathcote Fabrics  Shell Plc
AWE              Highways Agency  Schenker Ltd
BAE Systems      Inalfa Roof Systems  Siemens Plm Software
Barclays Wealth  Ishida Europe Ltd  Stannah Stairlifts
Bentley Motors Ltd  Jaguar Land Rover  Syngenta
BMW              JCB            TAFE India
BNP Paribas Corp and  Kazakh National Oil and Gas  Tata Steel
Investment Bank  Company  Terex
Brose            L-3 Communications TRL  The Jordan & Ryvita Group
Carlsberg Breweries  Technology  The Silver Spoon Company
Caterpillar       Lloyds Banking Group  Thetford Ltd
Cemex            London Taxis International  Total Flow
Chamberlin and Hill  Made in the Midlands  TVS Motors
Chorus Law        Man Made River Project  Tyler Brothers
Content and Code  Meggitt Aircraft Braking  UK Coal
CSCEC Algeria     Systems  UTC Aerospace Systems
Cummins Power Generation  Mercedes GP  Vardhman Textiles
Delphi Diesel     MOD          Vion
Denso            National Grid  Volker Rail Ltd
DHL Exel Supply Chain  Network Rail  VT Group
Diversey          Pinsent Masons  Wilkin and Sons Ltd
Ericsson          Precision Micro Ltd  Window Warm
Excel Logistics  Pzna Solutions Ltd  Xerox
Fuji DB

go.warwick.ac.uk/wmgptmasters
### Fees

You can progress between any of our postgraduate qualification levels. The fees already paid will be credited towards the fees for the higher award. Only a small admin fee is charged.

#### Postgraduate (Residential)

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Cost</th>
<th>Completion within</th>
<th>Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Course*/Single Module</td>
<td>£1,860</td>
<td>4.5 days</td>
<td>Four and a half day module, plus work-based assignment</td>
</tr>
<tr>
<td>Postgraduate Award</td>
<td>£5,500</td>
<td>12 months</td>
<td>Three separate four and a half day modules plus three work-based assignments</td>
</tr>
<tr>
<td>Postgraduate Certificate</td>
<td>£10,750</td>
<td>18 months</td>
<td>Six separate four and a half day modules plus six work-based assignments</td>
</tr>
<tr>
<td>Master’s Degree</td>
<td>£22,800</td>
<td>3 years</td>
<td>Ten separate four and a half day modules, plus ten work-based assignments and a dissertation</td>
</tr>
</tbody>
</table>

#### Post-experience (Residential)

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Cost</th>
<th>Completion within</th>
<th>Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Course*/Single Module</td>
<td>£1,060</td>
<td>2.5 days</td>
<td>Two and a half day module, plus work-based assignment</td>
</tr>
<tr>
<td>Master’s Foundation Programme</td>
<td>£9,540</td>
<td>18 months</td>
<td>Six separate two and a half day modules, one four and a half day module (and post-module assignments) plus one work-based project</td>
</tr>
</tbody>
</table>

#### Undergraduate (Non-residential)

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Cost</th>
<th>Completion within</th>
<th>Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor’s Degree</td>
<td>£27,840</td>
<td>4 years</td>
<td>Years 1 and 2: Six separate five day modules (and assignments) per year</td>
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<td></td>
<td></td>
<td></td>
<td>Years 3 and 4: Five separate five day modules (and assignments) per year plus two individual project weeks</td>
</tr>
</tbody>
</table>

*Short courses carry credits towards other programmes for a period of up to five years after successful completion of the work-based assignment.
# Module List for Postgraduate Level Programmes

<table>
<thead>
<tr>
<th>Business Modules</th>
<th>Engineering Business Management*</th>
<th>Programme and Project Management**</th>
<th>Supply Chain and Logistics Management***</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualifications</td>
<td>PgA</td>
<td>PgC</td>
<td>MSc</td>
</tr>
<tr>
<td>Requirements</td>
<td>3 modules</td>
<td>6 modules</td>
<td>10 modules</td>
</tr>
<tr>
<td>Business Model Generation</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
</tr>
<tr>
<td>Business Strategy and Strategic Management</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Financial Analysis and Control Systems</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
</tr>
<tr>
<td>Financial Strategy</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>International Joint Ventures</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
</tr>
<tr>
<td>Leading Change</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
</tr>
<tr>
<td>Legal Aspects of Global Business</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
</tr>
<tr>
<td>People in Organisations</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
</tr>
<tr>
<td>Strategic Marketing</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
</tr>
<tr>
<td>Operations /Technology Modules</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Advanced Materials and Processes</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Applied Statistical Methods</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Business and Operations Design</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Cryptosystems and Data Protection</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Digital Forensics, Evidence and Intelligence</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Information Risk Management</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Information-Security Governance</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Innovation</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Leading Performance</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Lean Principles and Application</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Logistics and Operations Management</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Managing the Multi-Project/Programme Environment</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Operations Strategy for Industry</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Procurement and Inventory Management</td>
<td>Core</td>
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<tr>
<td>Product Design and Development Management</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Project Planning, Management and Control</td>
<td>Core</td>
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<tr>
<td>Quality Management and Techniques</td>
<td>Core</td>
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<tr>
<td>Reputation and Relationship Management</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Security Architectures and Network Defence</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Service Design and Delivery</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Service Support Technologies</td>
<td>Core</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Supply Chain Management</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Technology Management</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Transport Techniques and Management</td>
<td>Core</td>
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<tr>
<td>Supporting Events</td>
<td>Core</td>
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<tr>
<td>Induction (1 day)</td>
<td>Core</td>
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<tr>
<td>Research Methodologies (2 days)</td>
<td>Core</td>
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<tr>
<td>Company-Based Project Dissertation</td>
<td>Core</td>
<td>Core</td>
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*EBM: delegates for the PgA, PgC or MSc must take at least one, two or five Operations / Technology Modules respectively, in addition to the 'Core' module, while delegates for the MSc must also take at least one further Business Module.

**MSE: delegates for the PgA, PgC or MSc must take at least two, three or five 'Option' modules respectively.
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<tr>
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<tbody>
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<td>PgA</td>
<td>PgC</td>
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<tr>
<td>10 modules</td>
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*** ITSO: delegates for the PgA and PgC must take at least two or four of the ‘Core’ modules respectively, plus one or two other ‘Core’ or ‘Option’ modules respectively. Delegates for the MSc must take all six core modules plus four ‘Option’ modules.
Get in touch

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+44 (0)24 7652 3976

WMG Professional and Executive Programmes Administrator
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The University of Warwick Coventry CV4 7AL

The information contained in this brochure was correct at the time of going to print.
For updates and latest information, please check our website.