Professional and Executive Programmes
Part-time Courses 2014
Through our unique combination of industry experience and academic excellence we enable managers and leaders to succeed in a constantly changing global environment. Our programmes have been developed, in collaboration with our industry partners, to broaden the knowledge and capability of industry professionals.

We delivered our first course in 1981 and with the launch of our new Applied Engineering Programme, we now offer a full range of part-time programmes at both undergraduate and postgraduate levels.

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. Highly regarded within the business, engineering and technology sectors, our Professional and Executive Programmes are designed to give you a broader management experience.

We were proud to be awarded the Queen’s Anniversary Prize for Higher and Further Education 2009. To receive this award is a tremendous honour and highlights that our philosophy of providing academic excellence with a clear business focus is a winning formula.

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.

Professor Lord Kumar Bhattacharyya, KB, CBE
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About WMG

WMG was founded by Professor Lord Bhattacharyya in 1980 to help reinvigorate UK manufacturing. From its inception, WMG's mission has been to improve the competitiveness of organisations through the application of value adding innovation, new technologies and skills deployment, bringing academic rigour to industrial and organisational practice.

Today we are one of the world’s leading research groups, with over 450 people working across five buildings on the Warwick campus plus collaborative centres in ten countries. We have an annual programme of £80m which includes industrial and in-kind support.

Over the next two years we will be launching four new centres: Energy Innovation Centre; Automotive Composite Research Centre; International Institute for Nanocomposite Manufacturing and the National Automotive Innovation Campus. All of which will be focused on applied research with industry collaboration.

We are at the forefront of innovative technology, leading major multi-partner projects to create and develop exciting new processes and products that can lead to major breakthroughs and be of huge benefit to organisations.

These projects have seen us working across a wide range of sectors including automotive, aerospace and defence, digital, energy and utilities, finance, food and drink, healthcare, and pharmaceuticals. We have collaborated with government sponsored bodies, the NHS, innovative SMEs and global corporations such as Airbus, Arup, AstraZeneca, BAE Systems, GlaxoSmithKline, Jaguar Land Rover, Network Rail, Rolls-Royce, Siemens, Tata Motors’ European Technical Centre, 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 and attract high calibre students and executives. In the academic year 2012/13 we awarded over 900 Master’s degrees and around 400 professional awards.

Through our International Doctorate Centre in High Value, Low Environmental Impact Manufacturing our vision is to create a future generation of manufacturing leaders with the high-level know-how and research experience that is essential to succeed in a global environment.

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.

We are excited by the development of the WMG Academy for Young Engineers which is part of a new and exciting learning campus catering for 14 – 18 year olds from Coventry, Warwickshire and Solihull. 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 the students and the employers.
Introduction to Professional and Executive Programmes

Our professional education programmes have been developed in partnership with engineering, manufacturing, technology and service-led companies to ensure they benefit both employer and employee.

We understand that one of the greatest strengths a company has 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.

We are world-renowned for providing high quality education with the latest relevant and innovative subjects that meet today’s business and industry needs.

In 2013 we launched our first part-time undergraduate course, leading to a Bachelor’s degree in Engineering. Our pioneering Applied Engineering Programme has been created in response to industry demand and in collaboration with several industry leaders, including Jaguar Land Rover. It enables those perhaps in the early stages of their career to achieve a degree while applying their learning in the workplace. This allows them to make an immediate contribution to their company.

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.

We can offer 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 modules 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 specifically 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, Rolls-Royce and Network Rail.

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 you and your company.

Professor Sujit Banerji
Executive Director of Postgraduate Programmes
Because we understand that needs and situations 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.

Applied Engineering Programme
Our pioneering Applied Engineering Programme is for employees of engineering, manufacturing and technology-led companies who want to earn a university degree while working. You may study for your degree 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.

For those who already have higher education qualifications or suitable professional experience, we offer a variety of options.

Master’s Foundation Programme
Our Master’s Foundation Programme is designed to prepare you for studying at postgraduate level if you have sufficient professional experience, but no formal education qualifications. The taught elements of the programme can be taken individually 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 our Master’s level programmes if you wish to gain an MSc degree in the future.

Postgraduate Programmes
If you are ready to study at postgraduate level we offer qualifications in six streams, allowing you to tailor your studies to match both your needs and the needs of your company.

As with the Master’s Foundation Programme, all of our taught MSc modules 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 for the stream most applicable to your learning needs.

Successful completion of each of our postgraduate qualifications means that you can transfer credits and fees and join the next level at the corresponding point if you wish to continue. For example, if you successfully complete three modules and post-module assignments to achieve a 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 rather than beginning again.

The diagram below illustrates the various routes and the time required to undertake each option.
Postgraduate Pathway

Entry via: Degree / HND / Industry Experience

18 month MSc Foundation
(20 credits)

Successful completion of the MSc Foundation gains entry to any of the above courses

18 month Postgraduate Certificate
(90 credits)

Successful completion of the Postgraduate Certificate gains entry to the above course

12 month Postgraduate Award

Successful completion of the Postgraduate Award gains entry to either of the above courses

MSc Programme Split

Over the course of the three years, you will spend a 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 other 50% of your degree and it will be applicable to whichever stream you have elected to follow.

Key
- 4.5 day modules (10 credits each)
- 2.5 day modules (5 credits each)
- Company-based project

Company-based Post-module Assignments

Company-based Project / Dissertation

Modules at University of Warwick
Master’s Degrees

Our Master’s degrees are designed to give you the flexibility and choice to direct your own education in a way that works for you.

The wide range of modules and specialisms on offer allows you to focus on your needs for your own education and in relation to your company requirements, and to best complement your existing knowledge.

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.

In order to achieve the Postgraduate Award you must complete three modules within a twelve month period. The Postgraduate Certificate requires completion of six modules within eighteen months. Please see pages 22-23 for core requirements for each award level.

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

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.

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.

Each module runs over four and a half days (starting Monday morning and finishing 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 programme.

Dale Ballinger
General Manager Large Commercial Programmes (Actuation Systems), UTC Aerospace Systems

“I chose to take up the opportunity to do an MSc with WMG because the programme has an excellent reputation for quality and flexibility. WMG is a well-respected organisation that’s recognised worldwide. The main benefit from WMG programmes is in the ability to apply large amounts of the module learning directly into your business. I am enjoying the experience immensely and am recommending it at every available opportunity within my business. Working alongside other industry professionals and working on real-time problems faced by various businesses across different industries has been a real highlight for me. The application of ‘Lean Thinking’ from this MSc has been incorporated into business plans which clearly deliver improved levels of customer delight and financial performance.”
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.

Duane Upchurch
Production Leader, Rolls-Royce

“ My study with WMG was part of the Assembly and Manufacturing Leadership Development Scheme at Rolls-Royce, which I successfully completed in October 2012. Rolls-Royce chooses to work with WMG as Warwick is one of the UK’s leading universities, providing industry recognised qualifications. In addition to top class facilities, WMG also provides access to the latest thinking.

My experiences at WMG have far surpassed my initial expectations of this programme. It is clear that they are taking massive strides to bridge the gap between industry and academia, by providing practical solutions to real business problems.

The flexibility of the Engineering Business Management MSc has enabled me to focus on personal development as well as business needs, and the diversity of course participants provides rich discussion during modules as well as a perfect opportunity to network in a relaxed environment. All of the staff at WMG work very hard to ensure that your stay at the University is a pleasant experience.

Since joining Rolls-Royce as an apprentice in 2005, I’ve progressed into a Production Leader role within the company, having held a variety of leadership positions along the way. I would recommend this course to anyone interested in enhancing their career prospects, as studying here has provided me with the foundation of knowledge required to be a leader of change within organisations. ”

wmgptmasters@warwick.ac.uk
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 specialism.

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 work based, this will allow you to really delve deep into your subject area and apply it directly into your workplace.

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 and by the Chartered Institute of Purchasing and Supply.

Engineers looking to become managers may wish to consider Manufacturing Systems Engineering, and if you work in cyber security or are interested in managing that area better then we have a stream in Cyber Security and Management.

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 stage.

MSc Service Management and Design (SMD)

For leaders and managers in service-based industries

Why Enrol?

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.

This course will enable 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. Therefore bringing together a mesh of organisations, people, technologies and information to deliver long term value to the customer.

Learn the systems and techniques used to manage service industries and for 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.

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 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/programme 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.

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 CILT 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 other 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?
The UK government recognises the serious nature of the threats that are emerging from the cyber-sphere. Our MSc programme is designed for those who wish to develop their career in an increasingly important sector as a cyber security professional. It is also suitable for managers in organisations which are dependent on data security and information communications technology. This programme is particularly suitable if you have a computer science or IT background.

Core Modules
- Security Architectures and Network Defence
- Cryptosystems and Data Protection
- Information Risk Management and Governance
- Industrial Espionage and Counterfeiting
- 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.
Innovation Business Leadership - Postgraduate Award

New for 2014, our Postgraduate Award (PgA) in 'Innovation Business Leadership' is directed primarily at fast moving SMEs who rely on innovation to gain competitive advantage.

Programme Structure
To allow for those working in SME’s to have shorter periods out of the office, the programme is delivered in a new format of five separate three-day modules, blending our world renowned technical research with real business implications. Module content will give participants practical insights that can be implemented immediately for maximum impact:

- Leading and Managing Your People
- Lean Efficiency and Quality
- Sales, Marketing and Reputation Management
- Understanding Finance
- Strategy, Innovation and Change

Delivery and Assessment
Each module will be delivered over three days at the University of Warwick (residential options are available on request).

As with all of our programmes, modules will be assessed through company-based post-module assignments. This enables participants to apply their learning directly back into their work environment and to embed their knowledge in a real world manner applicable to both themselves and their company.

Credits from this award can be put towards a Master’s degree for those participants who wish to continue their learning with us in the future.

A common concern inhibiting growth in small businesses is a notable skills shortage. As the economy now starts to recover, it is important for small businesses to grasp new opportunities and reshape their skills base accordingly. The new PgA from WMG has been designed specifically for this purpose.

Mark Swift,
Head of SME Programmes, WMG

I think it’s really important for a progressive company to be at the forefront of any developments in an industry, and working with WMG has given us that.

Mark Drinkwater,
Managing Director, JSC Rotational
Like all of our courses, our Master’s Foundation Programme 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. It will also enable you to go on and enrol on a Master’s (MSc) degree course.

We offer a range of modules which run at varying times throughout the year, giving you the flexibility to focus on your development needs and to work around your current employment.

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 degrees.

**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. Each is followed by a post-module assignment.

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.

**Core Modules**

- **Business Awareness**
  
  Learn how the social, political, economic and commercial environment in which the business operates influences strategic objectives. Understand best practice behaviours.

- **Developing People**
  
  Theories and techniques for the management of individuals. Understand the factors that influence effective performance and how to apply that knowledge in practice.

- **Working in Teams**
  
  Understand the role of the leader as well as what motivates people, the nature of team membership and developing effective team working.
My educational background is apprentice time served, with mainly in-house training courses. The Master’s 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 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 2014.

Paul Twigger
Project Manager, Rolls-Royce
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 (AEP) is for employees of engineering, manufacturing and technology-led companies who do not possess a university degree. Upon successful completion of the programme you will be awarded a Bachelor of Engineering (BEng) degree from the University of Warwick.

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

The curriculum has been reviewed by a number of companies, 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 also be numerous opportunities to hear how others are doing things and learn best practice across different sectors.

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

Entry Requirements

As a student at the University of Warwick you will have access not only to our tutors, facilities and an online learning environment, but you will also be able to access resources and facilities across the University campus.

You may come from any area of your company and may be of any age. For example, you may have recently completed a standard apprenticeship scheme, or be part-way through a Higher Apprenticeship, or you may be a more experienced member of staff looking to further develop your engineering skills and add value to your 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 (see pathway diagram on pages 6 and 7).

Each module will run over five days, Monday to Friday, at the University of Warwick. 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 applicable to both you and your company.

go.warwick.ac.uk/aep
WMG is the perfect partner to help develop our engineering community and I am delighted that so many of our employees will be able to study for a degree at one of the UK’s leading academic institutions.

Dr Ralf Speth, Chief Executive of Jaguar Land Rover

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

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

Years 3 and 4
You may specialise in one of three streams:
- Manufacturing Systems
- Product Creation
- Business

Other streams appropriate to sectors such as aerospace and transport (including rail) are under discussion.

Module options at this level might include Aerodynamics, CAD/CAM, Productionising Design, Project Management and Leadership, Supply Chain Management and Sustainable Energy Systems.
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 mix and match 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.

The scheme has now been extended and opened up to other employers through Semta (Sector Skills Council for Advanced Manufacturing and Engineering) as the Advanced Skills Accreditation Scheme. Modules are also now delivered in conjunction with the Universities of Bradford, Southampton and York.

We are working with Lloyds Banking Group to deliver the Manufacturing Awareness Programme for Relationship Managers in the banking group’s manufacturing section. Developed by WMG and Lloyds, with the support of industry bodies the Manufacturing Technologies Association (MTA) and the EEF, the scheme allows Relationship Managers to better understand the needs and processes of manufacturing companies and how those companies are affected by decisions that banks make.

The competitive advantage being achieved by this new professionalism will not only benefit Lloyds, but will also be shared by their customers.

The programme 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. They have been better able to understand the needs of their members and improve the services which they are able to provide as a result.

The programme includes site visits to companies and case studies as well as supporting theory delivered in the classroom over a one week period.

When we were looking to invest in our team of manufacturing focused bank managers to provide them with valuable sector insight and understanding we found the ideal partner in WMG. They have been instrumental in delivering a first class training programme which has been extremely beneficial in helping our bank managers become recognised as trusted advisors in the local manufacturing communities. Our managers have found the training comprehensive, demanding and rewarding, and delivered highly professionally in a top-notch environment.

Richard Holden,
Head of Manufacturing,
Lloyds TSB Commercial

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).

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

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 today.

"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
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, 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.

“The unique value of the SPP programme is 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 US and expansion of the programme to cover the Actuation Systems part of the business. Since Goodrich’s takeover by UTC, WMG has 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.

“...Our people differentiate us from the competition and give us competitive advantage in the market place. Investing in our people through development programmes such as the partnership with WMG is critical to our future success. WMG’s applied academic training is directly relevant to our business needs and allows for immediate application of newly acquired knowledge and skills throughout our business.”

Dale Ballinger, General Manager Large Commercial Programmes (Actuation Systems), UTC Aerospace Systems

Programme and Project Management

Network Rail chose us to deliver a one year full-time Programme and Project Management MSc for specially selected graduates to undertake before joining Network Rail on a permanent basis.

The custom programme comprises a series of modules chosen to closely match the needs of the business. It was also recently extended to add a module preparing the graduates for a professional project management qualification (APMP) with the exam being moderated by The Association for Project Management (APM). This gives participants an additional external award.

Over the past five years more than 100 graduates have successfully taken up new positions in Network Rail. The programme was also Highly Commended at the Network Rail Partnership Awards.

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). In recent years, courses have been developed for major organisations such as the China Aviation Industry Corporation (AVIC) and China Aerospace Talent Development and Exchange Centre (CA-TDEC).

In 2011 WMG inaugurated a new partnership with the Beijing Academy of Science and Technology (BJAST), the largest group of technical institutes of its kind in China. The first course took place partly in Beijing and partly at WMG, and concentrated on aspects of Innovation Project Management and team building.

Courses are tailored specifically for each group of participants, and are delivered in two parts: a period of language training and selected modules given by WMG tutors in China, followed by an intensive period at the University of Warwick with modules, project work and industry visits.

Successful candidates can be awarded a Post-experience Certificate in Engineering Business Management from the University of Warwick. WMG/SAFEA Alumni have now reached very senior positions in many areas of Chinese industry and government.

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.

wmgptmasters@warwick.ac.uk
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.

WMG offers a structured programme for people whom we see as having emergent talent maybe as junior managers and who could go on to senior positions. They will start on the strategic decision making module, which can give them a business concept, and from there they start to apply the tools and techniques they learn on the modules to their job.

Chris Lewis,
Head of Environment, AstraZeneca
Fees – from 1st January 2014

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

<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>£1,816 (R)</td>
<td>4.5 days</td>
<td>Four and a half day module plus work based assignment (optional)</td>
</tr>
<tr>
<td>Postgraduate Award (Innovation Business Leadership)</td>
<td>£4,000** (NR)</td>
<td>12 months</td>
<td>Five separate three day modules plus five work based assignments</td>
</tr>
<tr>
<td>Postgraduate Award (Chosen from six MSc Streams)</td>
<td>£5,370 (R)</td>
<td>12 months</td>
<td>Three separate four and half day modules plus three work based assignments</td>
</tr>
<tr>
<td>Postgraduate Certificate</td>
<td>£10,500 (R)</td>
<td>18 months</td>
<td>Six separate four and half day modules plus six work based assignments</td>
</tr>
<tr>
<td>Master’s Degree</td>
<td>£22,570 (R)</td>
<td>3 years</td>
<td>Ten separate four and half day modules plus ten work based assignments and a dissertation</td>
</tr>
</tbody>
</table>

**Postgraduate Level**

<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>£1,030 (R)</td>
<td>2.5 days</td>
<td>Two and a half day module</td>
</tr>
<tr>
<td>Master’s Foundation Programme</td>
<td>£9,280 (R)</td>
<td>18 months</td>
<td>Six separate two and a half day modules, one four and half day module plus one supervised work based project</td>
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</tbody>
</table>

**Master’s Foundation Level**

<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>£26,900 (NR)</td>
<td>4 years</td>
<td>Year’s 1 and 2: Six separate five day modules per year</td>
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<td></td>
<td></td>
<td></td>
<td>Year’s 3 and 4: Five separate five day modules per year plus two individual project weeks</td>
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</table>

**Undergraduate Level**

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Cost</th>
<th>Completion within</th>
<th>Modules</th>
</tr>
</thead>
</table>

* Short courses carry credits towards other programmes for a period of up to five years after successful completion of the work based assignment.

** Match funding of up to £2,000 available towards fees for SME clients of the nationwide GrowthAccelerator programme.

R = Residential (fees include accommodation, meals and refreshments during each module)
NR = Non-residential
## Module List for Postgraduate Level Programmes

<table>
<thead>
<tr>
<th>Streams</th>
<th>Engineering Business Management*</th>
<th>Programme and Project Management</th>
<th>Supply Chain 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>
</tbody>
</table>

### Business Modules

- Business Model Generation
- Business Strategy and Strategic Management
- Financial Analysis and Control Systems
- Financial Strategy
- International Joint Ventures
- Leading Change
- Legal Aspects of Global Business
- People in Organisations
- Strategic Marketing

### Operations / Technology Modules

- Advanced Materials and Processes
- Applied Statistical Methods
- Business and Operations Design
- Cryptosystems and Data Protection
- Digital Forensics, Evidence and Intelligence
- Industrial Espionage and Counterfeiting
- Information Risk Management
- Innovation
- Leading Performance
- Lean Principles and Application
- Logistics and Operations Management
- Managing the Multi-Project/Programme Environment
- Operations Strategy for Industry
- Procurement and Inventory Management
- Product Design and Development Management
- Project Planning, Management and Control
- Quality Management and Techniques
- Reputation and Relationship Management
- Security Architectures and Network Defence
- Service Design and Delivery
- Service Support Technologies
- Supply Chain Management
- Technology Management

### Supporting Events

- Induction (1 day)
- Research Methodologies (2 days)
- Company-Based Project Dissertation

*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.
<table>
<thead>
<tr>
<th>and Logistics Management</th>
<th>Service Management and Design</th>
<th>Manufacturing Systems Engineering*</th>
<th>Cyber Security Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>PgC 6 modules</td>
<td>PgA 3 modules</td>
<td>PgA 3 modules</td>
<td>PgA 3 modules</td>
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<tr>
<td>MSc 10 modules</td>
<td>PgC 6 modules</td>
<td>PgC 6 modules</td>
<td>PgC 6 modules</td>
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<tr>
<td>PgC 10 modules</td>
<td>MSc 10 modules</td>
<td>MSc 10 modules</td>
<td>MSc 10 modules</td>
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<tr>
<td>Business Modules</td>
<td>Core</td>
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<tr>
<td>Business Model Generation</td>
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<tr>
<td>Business Strategy and Strategic Management</td>
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<tr>
<td>Financial Analysis and Control Systems</td>
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<td>Core</td>
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<tr>
<td>Financial Strategy</td>
<td>Option</td>
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<td>Option</td>
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<tr>
<td>International Joint Ventures</td>
<td>Option</td>
<td>Option</td>
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<tr>
<td>Leading Change</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Legal Aspects of Global Business</td>
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<tr>
<td>People in Organisations</td>
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<tr>
<td>Strategic Marketing</td>
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<tr>
<td>Options</td>
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<td>Option</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>Option</td>
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<td>Option</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>
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<tr>
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<td>Information Risk Management</td>
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<tr>
<td>Innovation</td>
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<td>Leading Performance</td>
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<tr>
<td>Lean Principles and Application</td>
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<td>Logistics and Operations Management</td>
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<td>Managing the Multi-Project/Programme Environment</td>
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<td>Operations Strategy for Industry</td>
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<tr>
<td>Procurement and Inventory Management</td>
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<td>Product Design and Development Management</td>
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<td>Project Planning, Management and Control</td>
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<td>Service Design and Delivery</td>
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<tr>
<td>Service Support Technologies</td>
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<td>Supply Chain Management</td>
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<td>Core</td>
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<tr>
<td>Technology Management</td>
<td>Core</td>
<td>Core</td>
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<tr>
<td>Company-Based Project Dissertation</td>
<td>Core</td>
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<td>Core</td>
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</tbody>
</table>

*Note: Manufacturing Systems Engineering is offered at Postgraduate Certificate (PgC) and Postgraduate Diploma (PgD) levels.

wmgptmasters@warwick.ac.uk
Excellent transport and road links

- 1 hour to London by train
- Nearest airport – Birmingham International – 20 minutes
- Nearest train station – Coventry to minutes

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