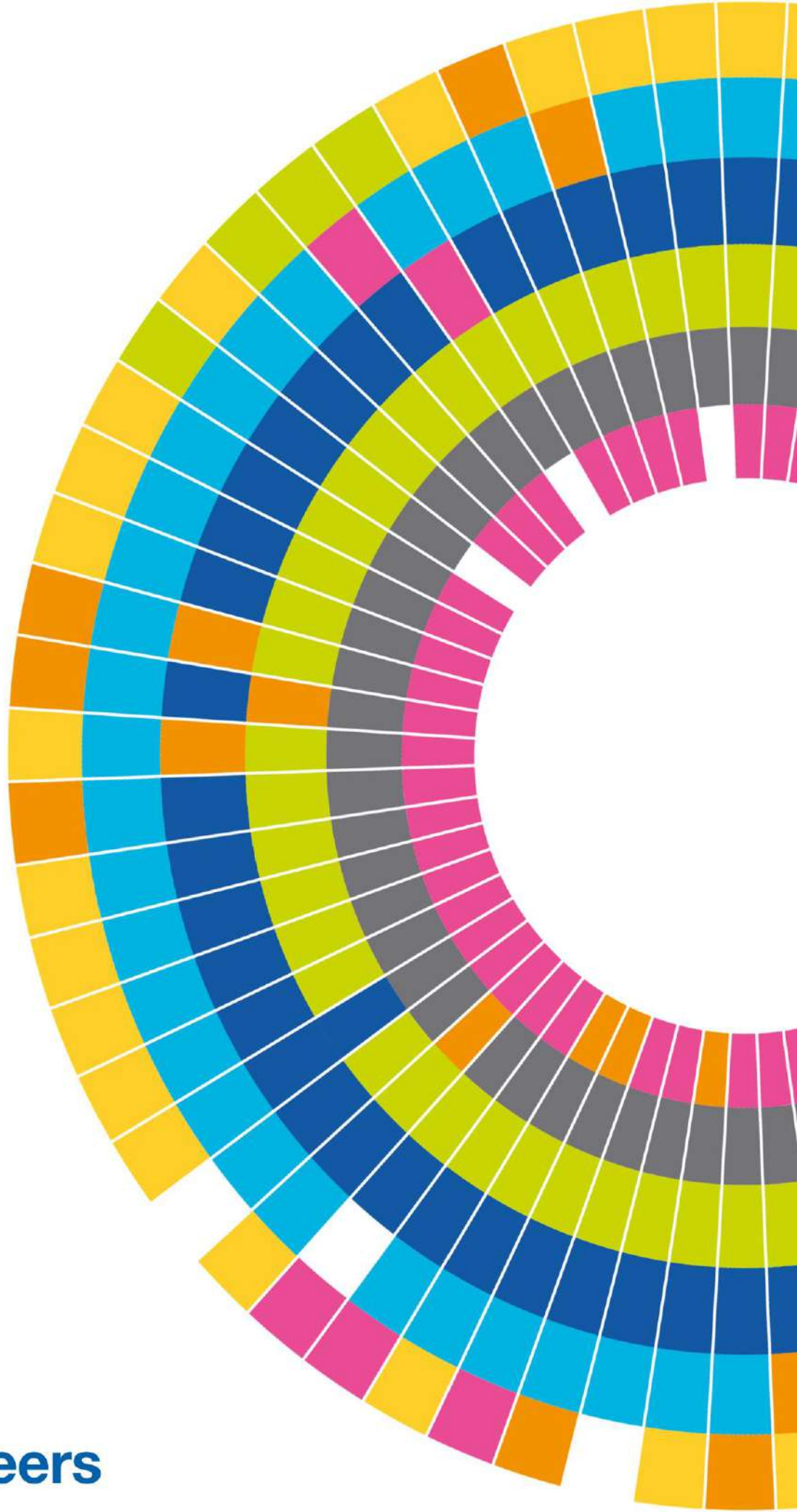
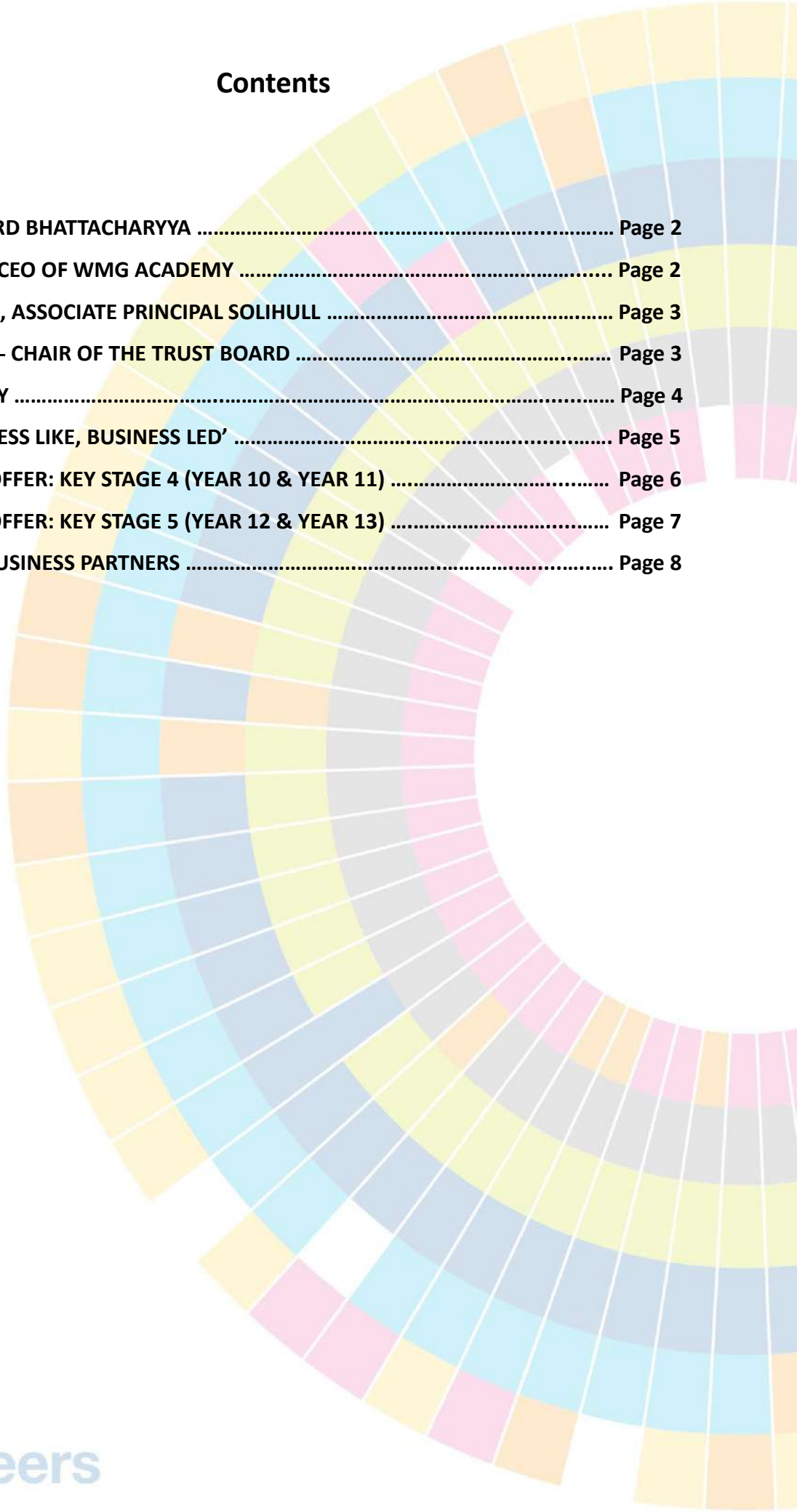


WMG Academy Coventry

Associate Principal Additional Information Pack



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Professor Lord Bhattacharyya

Lord Kumar Bhattacharyya was an esteemed engineer who founded the Warwick Manufacturing Group (WMG) in 1980, an academic department at the University of Warwick. Today, WMG is an international leader in the provision of cutting edge research and expertise in engineering and technology to global businesses in high value manufacturing. He served as chairman of WMG until his passing in 2019. During his time at WMG, Lord Kumar Bhattacharyya founded both WMG Academies with the Coventry Academy opening in 2014 and the Solihull Academy opening in 2016.

Before founding WMG, Lord Bhattacharyya worked with Lucas Industries, the main supplier of parts to the British car and aerospace industries. Latterly, he forged strong links with Tata and Jaguar Land Rover and secured the building of the National Automotive and Innovation Centre on the Warwick University campus. Lord Bhattacharyya was an advisor to several British governments on industrial strategy and was a key member of the House of Lords Science and Technology Advisory Committee.

<https://raeng.org.uk/lord-bhattacharyya-engineering-education-programme>



Stewart Tait CEO of WMG Academy

Mr Tait says: "I feel immensely privileged to be the CEO of the WMG Academy Trust. Our aim is to achieve outstanding outcomes for young people through a relentless focus on high quality teaching and learning, delivered by expert practitioners, as well as providing a broad and balanced curriculum for all. Both the WMG Academy Coventry and WMG Academy Solihull aim to bring out the best in young people and give them the leadership opportunities to develop themselves and others, whilst securing the knowledge, technical skills and business behaviour we know employers value."



Claire Morris Associate Principal, WMG Academy Solihull



Mrs Morris says, “I feel immensely proud to be Associate Principal of WMG Academy Solihull. My career to date has been focused around design technology, CAD, electronics and 3D design. I therefore truly appreciate and fully support the need for a skills-based curriculum. At WMG, our aim is to achieve outstanding outcomes for young people through a relentless focus on high quality teaching and learning, delivered by expert practitioners, as well as providing a broad and balanced curriculum for all. At WMG Academy Solihull, I aim – with the support of my dedicated team – to bring out the best in young people and give them the leadership opportunities to develop themselves and others whilst securing the knowledge, technical skills and business behaviour we know employers value.”

Stuart Baker, BEng (Hons), FRAeS – Senior Vice President, Services Operations, Rolls-Royce Civil Aerospace – Chair of the Trust Board

Stuart joined Lucas Aerospace in Birmingham after graduating from Leicester University in 1991 with a degree in Mechanical Engineering with Computing. He has worked in senior management positions in engineering, programme management, manufacturing, supply chain management and quality, and was responsible for the development of Rolls-Royce’s purpose built Control Systems facility in Solihull which is home to 1,200 Rolls-Royce employees. Stuart currently leads Rolls-Royce’s 24x7 global support and monitoring of civil aero engines and planning for engine maintenance.

Stuart has been a strong advocate for investment and skills development in the West Midlands region – he has previously held roles as the Greater Birmingham and Solihull LEP’s skills champion for Advanced Manufacturing and Engineering, he was a member of Birmingham City Council’s Green Bridge Supply Chain investment board, and was also a Vice President of Solihull Chamber of Commerce.

Stuart has worked with the WMG Academies since before the Coventry Academy first opened in 2014, supporting the curriculum development, employer visits and projects, and funding applications to the DfE to establish the academy in Solihull. He was appointed as a Trustee Director of the WMG Academy for Young Engineers Multi Academy Trust and Chair of the Solihull Academy Local Governing Board when it opened in 2016.



The Journey of The WMG Academies

The WMG Academy for Young Engineers Multi Academy Trust was formed in March 2015. Following the successful opening of the Coventry Academy in September 2014, the WMG Academy Trust opened its second Academy in September 2016 in North Solihull.

Formed between a partnership of the University of Warwick and with the support of national, regional and local businesses such as Jaguar Land Rover, National Grid, and Rolls-Royce, the Trust is committed to providing a better way of learning for the Engineers of the future.

Our vision

We will ensure that our learners have raised aspirations that will provide the motivational drive to succeed. Strong employer and further and higher education links, as well as a professional ethos and culture, will ensure the learners will be in demand from employers.

Our unique status of working very closely with some of the biggest employers in the region means that we have shaped the curriculum from day one to ensure we produce learners with a professional ethos and culture that is in high demand in today's working world.

Team working is the norm and learners work together to develop the skills that employers value. We are committed to developing team working, problem solving, creativity, leadership, communication, resilience and an ability to respond to change. As staff, it is our role to model those skills and behaviours to our learners in everything that we do.

WMG Academy for Young Engineers Coventry

Opened in September 2014 by Ratan Tata, the Coventry Academy has over 450 students on roll. Located close to the Westwood area in Canley and the University of Warwick, the Coventry Academy was designed with a large Engineering Hall filled with over £1M worth of specialist equipment. Three additional dedicated CAD/CAM areas allow industry standard software to be used by students in their Engineering projects.

WMG Academy Coventry was rated 'Good' by Ofsted in 2022 and WMG Academy Solihull was rated 'Good' by Ofsted in 2019.

WMG Academy for Young Engineers Solihull

Opened in September 2016, the Solihull Academy boasts over £2M of specialist equipment and ICT and currently has over 400 students on roll. Developed along a similar open plan design to Coventry, the Solihull Academy occupies a slightly bigger footprint.

Dedicated ICT facilities include 3 CAD suites and student PC access in all teaching rooms giving unrivalled access to industry standard software. These facilities allow innovative teaching pedagogy through digital technologies. A large Engineering Hall, complemented by 'Make and Do' areas above, allows a flexible group-work approach to learning.



WMG ACADEMY COVENTRY



WMG ACADEMY SOLIHULL

We Are ‘Business Like, Business Led’

From your first visit to the academy, you will be treated like the young engineer that you aspire to be. All students are treated like young adults and are expected to dress in business wear and behave in a mature manner – just like a real workplace.

BUSINESS LIKE

We are industry led and our facilities are designed to be like those that can be found in a real workplace. As a WMG Academy student, you will have access to the academy’s state-of-the-art engineering hall with over £1 million of specialist equipment, Computer-Aided Design suite and a range of manufacturing, design and digital technologies.

BUSINESS LED

We are partnered with real employer partners, like Jaguar Land Rover, Bosch, National Grid and Rolls-Royce. As a WMG Academy student, you will work with real businesses throughout your time at the academy and will be exposed to opportunities of work placements, business visits and project work set by companies. You will get to visit our employer partners and find out what working life is all about.

EMPLOYABILITY

As well as academic studies, we are passionate about making sure students leave WMG Academy with the employability skills they need. As a WMG Academy student, you will be able to take part in a range of ‘enrichment’ activities including car building, martial arts, public speaking, business skills, Duke of Edinburgh’s Award and fitness.

During your time here, you will learn the skills to make a success of yourself in the world of work and all our students are expected to secure apprenticeships, university places or work on leaving, with tailored help from experienced tutors and our careers staff.

EMBRACING TECHNOLOGY

We embrace modern technology and see it as a useful tool to enable research, learning and communication. Unlike other schools, as a WMG Academy student, you will be given your very own personal Chromebook and you will be permitted to use your phones at certain times during the day



Curriculum Offer: Key Stage 4 (Year 10 & Year 11)

In Key Stage 4 our curriculum is built around a core programme of learning with a focus on STEM subjects. Students will build a solid foundation of knowledge and skills leading to GCSE qualifications and, where appropriate, the English Baccalaureate.

The curriculum will be designed to ensure that the majority of students take at least 8 qualifications, with exception made for those students for whom a smaller number is more appropriate. The core education programme will be delivered through themes, linked to the technical specialisms and to employer set challenge projects. ICT will be integrated through all learning within the Academy.

The core curriculum is:

- GCSE Mathematics
- GCSE English Language
- GCSE English Literature (studied in Year 10)
- GCSE Core and Additional Science (triple GCSE available)
- PE, PSHE and RE are all non-examined
- Cambridge National Engineering Manufacture

Our specialist engineering qualifications are delivered through employer-led projects to ensure that students experience a real-world challenge, develop their engineering knowledge and practice their employability skills. All students study OCR National in Manufacturing and can choose OCR Nationals in Engineering Design and/or GCSE Electronics.

In addition, students are able to choose either 2 or 3 choices such as:

- Art
- Business Studies
- Computer Science
- Geography
- History
- Product Design
- Triple Science (converting Double Science to the three separate Sciences)
- GCSE Electronics
- Cambridge National Engineering Design



Curriculum Offer: Key Stage 5 (Year 12 & Year 13)

In the Sixth Form we offer A-Levels, technical qualifications such as BTEC and OCR Cambridge Technical, or a combination of both.

Students in the Sixth Form will typically pick three A-Levels or the equivalent in size such as the L3 BTEC Engineering Extended Diploma. Alongside their chosen subjects, students will have the option of choosing an additional enrichment activity such as the Extended Project Qualification (EPQ).

Subjects available to study in the Sixth Form include:

- A-Level Biology
- A-Level Chemistry
- A-Level Computer Science
- A-Level Further Mathematics
- A-Level Mathematics
- A-Level Physics
- A-Level Product Design
- Level 3 Cambridge Technical In Business (Extended Certificate)
- Level 3 Cambridge Technical Engineering (Extended Certificate)
- Level 3 BTEC Information Technology (Extended Certificate)
- Level 3 BTEC Applied Science (Extended Certificate/Diploma)

Our minimum entrance requirements for BTEC courses in the Sixth Form are 5 GCSEs at grade 4 or above including English and Maths. Students wishing to study A-Levels will be expected to have achieved a minimum of a grade 6 at GCSE in the chosen subject. For Mathematics a minimum of a grade 7 is required, for Further Maths a grade 8 is needed. Students wishing to study A-Level Physics are strongly advised to take A-Level Maths.



Supporting Business Partners



ARUP



ATKINS

Member of the SNC-Lavalin Group

Baker Dearing
Educational Trust

Balfour Beatty



BOSCH



Coventry & Warwickshire
Chamber of
Commerce



DePuy Synthes

PART OF THE Johnson & Johnson FAMILY OF COMPANIES



Glenn Howells
Architects

JLR

MEGGITT

MORGAN
SINDALL

Supporting Business Partners



