Sir Edward Herbert was Chairman of Governors at Loughborough College of Technology from 1957-63.

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WHAT'S IN A NAME?
Top marks in Student Barometer survey

Congratulations everyone for helping Loughborough reach the top spot in independent student survey the Student Barometer.

The survey covers four overarching areas: the services provided to students on their arrival, the academic learning experience, the support services available, and the university experience outside the lecture room. Loughborough came first out of all the participating universities, with over 90% of students saying they were satisfied.

Professor Robert Allison said: “It is great to have such positive feedback from our students. It is thanks to the hard work of staff at the University and the Students’ Union who are committed to providing outstanding support for our students.”

Library ready for refurb

The refurbishment of the Library, which will transform the upper floors of the building to provide over 300 new study spaces and a new PC clinic, is due to begin in the next few days.

The substantial work involved means the Library will be closed over the summer from 19 June onward. It will re-open at the beginning of the 2013-14 academic year.

During the summer period, services for borrowing and returning books will be housed in the Facilities Management building, where there will also be a help desk and access to library staff.

Further information on the Transforming the Library project, including a series of questions and answers, is available on the Library website www.lboro.ac.uk/services/library/transforming

£250K for energy improvements

The energy team has secured £250K funding from HEFCE and Salix Finance Ltd to use voltage optimisation to reduce energy consumption on campus.

Most electrical equipment in Europe is designed to work at 220V but buildings are typically supplied a voltage much higher than that. A voltage optimiser lowers the voltage to 220V which not only means equipment uses less energy, but it also extends the lifespan of many items.

Optimisers have already been installed at Burleigh Court and the swimming pool, reducing energy consumption by 7% and 3% respectively, and further units are planned for Brockington and Schofield, Sir David Davies, Towers and the Sir David Wallace Sports Hall.

LU joins FutureLearn

Loughborough is to offer courses in mathematics, enterprise and innovation via FutureLearn, the first free, open, online platform for higher education courses.

FutureLearn was founded in December 2012 and now has 24 partners including the British Museum, British Council and British Library. The site is designed to remove the barriers to education by making learning more accessible, inspiring and useful to people, no matter what stage of life they are at.

“Through these online courses, we will be able to make these outstanding learning opportunities available to even greater numbers of students,” said Professor Morag Bell, Pro Vice Chancellor for Teaching.

for more information on these news stories and more visit www.lboro.ac.uk/staff/news
Donor numbers reach 5000

Alumnus Nigel Kirkland (Accounting and Financial Management, 1996) has become the University’s 5,000th donor. His gift to the School of Business and Economics Fund for Excellence also saw him join the Schofield Society - a giving club for supporters who make a charitable gift of £1,000 or more each year.

“A lot of my career success is due to the education I had at Loughborough,” he said. “I had some fantastic lecturers who really motivated me to work hard.”

For information on how you can help make a difference visit www.lboro.ac.uk/alumni/giving

Science and Engineering Fair success

Hundreds of people attended the annual Science and Engineering Fair in March, which kicked off the University’s programme of events for National Science and Engineering Week (NSEW).

The week aims to celebrate science and engineering and their importance to our lives, giving people the chance to participate in science and engineering activities and experiments, and to engage in related discussions in their local area.

At the fair people of all ages had the chance to take part in a number of interactive challenges. Favourites from the event included using a giant Spirograph, walking on custard and stepping inside giant bubbles.

Event organiser Sian Williams said: “We are delighted so many people came along to the fair. “It was a great success and the perfect way to demonstrate how science and engineering play such a crucial part in our everyday lives.”

“I would like to thank the staff and students involved in the day and a special thank you goes to the pupils from De Lisle College and Humphrey Perkins School who ran their own activities at the fair.”

New international staff group

A new staff group has been established to bring Loughborough’s international community together through social and educational events, and to offer practical support to new staff members.

The international staff group held its first meeting in April and already has members from Italy, Romania, USA, Singapore and Japan.

The group is currently brainstorming for activities, which could include lunchtime walks, picnics in the walled garden, after-work coffee, or a film at Cope Auditorium. If you have any ideas about free or inexpensive activities for the group please contact Amy Theerman on a.e.theerman@lboro.ac.uk

Planned activities will be advertised on the staff noticeboard, and are open to all. If you would like to join the group or receive updates about activities please email Amy.

The group is also trying to compile a comprehensive list of Loughborough’s international staff, so is asking international colleagues to get in touch.

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For information on how you can help make a difference visit www.lboro.ac.uk/alumni/giving

Uni tool helps readers find new authors

If you’ve read the back catalogues of your favourite authors, an updated online tool by colleagues in LISU could be right up your street.

Almost 2,500 adult fiction authors are now included in Whoelsewriteslike.com, which helps signpost readers to new books and authors.

The online database searches authors by genre, nationality and style, as well as identifying major prize winners and books that are suitable for young adult ‘crossover’ readers.

Whoelsewriteslike.com is available on subscription to individuals, schools and libraries. For a free two-week trial please visit the website.
SSEHS achieves Athena Swan Silver

The School of Sport, Exercise and Health Sciences has been presented with a silver Athena Swan award.

The national scheme recognises success in developing employment practices to further and support the careers of women in science, technology, engineering, maths and medicine – collectively known as STEM subjects.

Silver awards recognise that, in addition to university-wide policies, the School has a significant record of activity and achievement.

This award is the first to be awarded an individual department at Loughborough and is in addition to the University's Bronze Award which runs until April 2014. Congratulations to Dr Mary Nevill (Athena Champion), Dr John Morris, Dr Kathryn and is in addition to the University's Bronze Award which runs until April 2014.

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Police work earns ergonomists major award

Ergonomists from the Design School have won a prestigious award for their development of the UK’s first nationwide police vehicle livery, providing forces across the country with a consistent design.

The team won the Institute of Ergonomics and Human Factors (IEHF) Ergonomics Design Award; it is the first time it has been awarded to an academic institution.

Research into the livery – a yellow and blue block ‘Battenburg’ design – was commissioned by the home office in a bid to enhance the safety of police officers and members of the public. The design has now been adopted by other emergency services in the UK and overseas.

Leave a legacy with the Thompson Circle

Have you ever thought about making a charitable gift to Loughborough as part of your Will? The Thompson Circle has been set up to thank alumni and friends who have included Loughborough in their Will, and to provide information to those interested in pledging their support.

The Circle is named after Annie Thompson who, in 1935, was the first person to leave a legacy to Loughborough. A launch event, which is open to anyone who has left or is considering leaving a legacy, is being held on campus on Saturday 22 June.

For more information see www.lboro.ac.uk/legacy

New self-support groups set up

New staff groups have been set up for employees affected by cancer and mental health.

The self-support groups have been organised by the occupational health team to enable people to share experiences in the context of work, access support and share coping strategies.

Drop-in sessions will be held throughout the year and will be advertised on the staff noticeboard.

Two further groups for carers and those suffering from back pain and musculoskeletal conditions are planned for the near future.

For more information contact Occupational Health Advisor Tim Ellis on 222 851 or occupationalhealth@lboro.ac.uk

Sir Clive speaks at university BOND event

Past students and friends of Loughborough gained an audience with fellow alumni Sir Clive Woodward at a special BOND (Business Opportunities for Networking and Development) event in London in April. The BOND events bring alumni back in contact with the University and can result in long term partnerships being formed between the University, industry and individual alumni.

More than 70 guests heard from the successful sports leader who gave an inspirational talk on teamwork. The event was part of the regular BOND series which has previously welcomed speakers including Sir Robert Winston and Baroness Sue Campbell.

The event was supported by Santander Universities UK, who donate more than £170,000 to the University each year, for wide ranging uses including study and research grants, entrepreneurship and sports scholarships and programmes.

The funding is secured and managed by staff within the Development and Alumni Relations Office. This year celebrate five years of the relationship between Santander Universities UK and Loughborough University. An event to celebrate the impact of the partnership will be held later in the year.

Matchmaking with a difference

A matchmaking event with a difference has taken place involving students and academics from across the University.

The event, co-ordinated by Mel Jordan from the School of the Arts, had an academic rather than romantic purpose - to bring together researchers from across the University to identify potential opportunities for multi-disciplinary projects.

 Held off-campus at the Quorn Country Hotel, there were 23 attendees. During the course of the day two sessions of ‘dating’ took place where participants had five-minute meetings to explain their areas of interest and identify opportunities for collaborative projects. Those taking part included professors, lecturers, research associates and PhD students from the academic disciplines of science, the arts, social sciences and technology.

Mel submitted the idea for the event as part of the University’s LEADER programme (Loughborough Excellence Awards for Developing Research Leadership) run by Staff Development, which is designed to develop a talent pool of future research and enterprise leaders at the University.

For more information contact Occupational Health Advisor Tim Ellis on 222 851 or occupationalhealth@lboro.ac.uk

It’s time to apply for your new parking permit

Staff wanting to apply for car parking permits for the next academic year (1 August 2013 to 31 July 2014) will be able to do so online from 17 June to 15 July.

To apply, go to the University’s ParkIT website https://parkit.lboro.ac.uk and log in with your University username and password.

For staff without routine access to a computer, colleagues from the travel team will be able to support you with your application. They will be available to do this on Tuesday 25 June (8am-12pm), Thursday 27 June (12pm-4pm) and Thursday 11 July (11am-2pm). Please call them on 01509 220815.

When the new charging structure for car parking on campus was introduced last year, it was agreed that the charges would be phased in over a three-year period. 2013-14 is the second year of that phased introduction.

For details of the new charges, or for more information visit the Travel website on www.lboro.ac.uk/sustainability/travel
Recreating the first ever tin cans

Department of Materials academic, Dr Mark Jepson, has recently helped to recreate the process of making the first ever tin can for a BBC article.

May marked the 200th anniversary of the establishment of the first can making and canning plant in the world, which was set up in Bernmondsey by Donkin, Hall & Gamble.

As part of this celebration, the BBC published an article in their online News Magazine charting the history of the tin can from its early origins 200 years ago to today’s multinational multi-billion pound business.

Dr Jepson, a lecturer in Metallurgy, helped to bring this article to life by visually demonstrating how the tin can is made using materials that are still readily available today, and using the facilities in the Department’s new undergraduate teaching labs and workshops.

The two completed cans made in the video were displayed at the Cannex can making machinery exhibition in Atlanta, Georgia in May. It is expected that they will be put on permanent display at the Museum of Brands, Packaging and Advertising in London.

Getting better @ email

Do you allow email to interrupt you too much? Does email just get you down and stress you out too much? Do you let it rule your life?

A project based on research by Loughborough’s Professor Tom Jackson will be piloted during the summer and launched in the next edition of News at Lboro. Help for all those over-burdened, stressed and / or addicted to their email will be available through training videos, assessment tool and advice.

Technician selected for world’s only professional cycle commuting team

Wind tunnel technician Rob Hunter has become a member of the world’s only professional cycle commuting team.

Set up by Trek and Cyclismas, the Pro Commute Team is made up of six riders handpicked from thousands of cyclists from across the UK. Its aim is to champion the health and environmental benefits of cycling to work and to inspire more people to take up the sport.

Rob, who works in the Department of Aeronautical and Automotive Engineering, commutes to the University by bike from his home in Mickleover around three times a week - a round trip of 45 miles.

“None of us on the team claim to be the new Bradley Wiggins, we are just a group of ordinary people who are passionate about cycling and commute to work on our bikes,” said Rob.

“It is great to be part of this new team and to share my experiences of cycling to work - hopefully it will encourage more people to pick up their bikes and give it a try.”

SDC & Geography bake-offs

Staff and students from Geography and the Sports Development Centre got creative with cakes in April to raise funds for cancer charity CLIC Sargent and the Zambia IDEALS charity.

The Big Geography Bake-Off was organised in memory of Matthew Pinnock, a Geography student who sadly lost his life to cancer in December.

Students and staff bakes an astonishing range of large geography-themed cakes which included a pond cake teeming with icing sugar frogs and flowers, a cake charting the changing extent of Arctic sea ice, a globe cake decorated to illustrate the international transfer of knowledge and even a population pyramid cake.

Robert Allison and the President of the Students’ Union Ellie Read examined the entries. First prize was awarded to second year Geography student Pip Fordham, whose cake represented the famous Dorset coastal arch Durdle Door.

The event raised over £580 for CLIC Sargent, the charity for children and young people with cancer and their families.

In SDC, Active Universities Coordinator Dawn Cooper was victorious with her carrot and walnut cake. Entries were judged by imago head of group Susan Cooper was victorious with her carrot and walnut cake. As part of this celebration, the BBC published an article in their online News Magazine charting the history of the tin can from its early origins 200 years ago to today’s multinational multi-billion pound business.

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There’s a real buzz about this one...

The University is setting up its own bee apiary with the help of local beekeepers Barry Jacobson and Paul Williams, and volunteer coordinator Patrick Whiteband.

The University campus is a haven for bees, with pollinated and nectar-rich trees such as hazel, blackthorn, willow, horse chestnut and lime and a designated ‘fruit route’ that boasts numerous bee-friendly shrubs.

The UK honey bee population has suffered an alarming decline in recent years with 50 per cent less bees now than in the 1980s. Loughborough is hoping to do its part to help turn that around.

A secluded site for the apiary has been selected and prepared over the winter and includes both conventional style beehives as well as a more naturalistic models. The hives have been made from spare wood sourced on campus.

As the apiary expands, organiser plan to explore the possibility of supplying honey on campus. The project has been made possible thanks to funding from Campus Living.

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“It is great to be part of this new team and to share my experiences of cycling to work - hopefully it will encourage more people to pick up their bikes and give it a try.”

Awards & honours

Design School technician Andrew Hallam has won the national Higher Education Academy STEM Engineering Technician of the Year award.

Prof John Anderson (Geography) has been appointed a Wolfson Research Merit Award by the Royal Society for his work with remote lakes.

Prof David T Llewellyn (Business and Economics) has been appointed Chair of the European Banking Authority’s influential Banking Stakeholder Group.

Dr Chris Goodier (Civil and Building Engineering) was invited to chair an international conference on sustainable construction held in Vietnam in March.

Michael Hoyler and Dr Heike Jins (Geography) have been awarded one of five Doctoral Programme awards by The Higher Education Academy. The awards support Doctoral studentships.

Matthew Cook (IT Services) has been elected Chair of the Universities and Colleges Information and Systems Association (UCISA) Networking Group and member of the UCISA Executive Committee.

Burleigh Court has picked up four awards at the Meetings & Incentive Travel (M&IT) Awards 2013. Judged on customer feedback and votes, the venue received Gold in the ‘Best Conference and Banqueting Staff’ category, as well as Silver in the ‘Best Training Centre’ and ‘Best Academic Venue’ categories and Bronze for ‘Access Excellence’.

Dr Peter Damien, Dr Kirti Ruikar (Civil and Building Engineering), Professor Anne Morris and Dr Ann O’Brien (Information Science) were awarded one of three Brian Mercer Awards from the Royal Society for their work on the Three Dimensional Information Retrieval (3DIR) project.
Expansion at the Double

The University is to establish a brand new academic campus. A London base will provide the University with access to more students and provide opportunities for increasing the profile and reputation of the University nationally and internationally. It will also offer opportunities for Loughborough-based staff and students to have activities in London.

Loughborough in London will be housed in 7,000m² of what was formerly the Broadcast Centre on Queen Elizabeth Olympic Park. The approximate size of the Design School will be taken over four floors and this equates to roughly 10% of the total building size.

The Loughborough Campus will be part of the wider iCITY development, which will transform the former Press and Broadcast centres on the Park into a world-class centre of innovation, education and enterprise. Other tenants in the iCITY development will include BT Vision (Sport), Hackney Community College, TechHub (a business incubator), Space (a creative industries cluster) and Infinity SDC (a data centre operator).

The new campus will offer postgraduate and executive education. Teaching and research disciplines confirmed to date include business and management (with innovation, enterprise and entrepreneurship as themes), media and communications, digital technologies and sport. Around 250 students will be targeted initially, rising to 1,000 over time.

It is anticipated that the new campus will attract students from both the UK and overseas who want a London-based education, coupled with Loughborough’s strengths in delivering research and enterprise-informed teaching and an excellent wider student experience.

The site will also support research and enterprise activities to provide the University with opportunities to further enhance these areas. It is anticipated that a substantial PhD student community will be fostered with a population of 70+ research students envisaged in steady state.

Loughborough in London will be managed as an additional school. It will operate using existing structures and processes wherever possible. At the start there will be approximately 30 staff but numbers will rise in line with students, up to around 100 (circa 65 academics). Staff appointments have already been made, including Professor Mike Caine as Dean and Anne Mumford as Operations Manager. Three Associate Deans will be appointed in the coming weeks, and the senior management team will be co-ordinating further appointments and are targeting to appoint a permanent London-based team in early 2015.

As well as co-ordinating the staffing appointments over the coming months, the school management team will also be focusing on the development of courses to complement the provision at Loughborough and to attract the target numbers, working with schools to develop a multi-disciplinary offering and co-ordinating the development and fit-out of the Loughborough space within the new building.

For further information please visit: www.bons.ac.uk/london

Exciting expansion plans for the University have been unveiled which will see the creation of a brand new site in London and significant development of the Loughborough campus. So what is involved?

Back on ‘home’ territory the development of the Loughborough campus will see substantial expansion of our Science and Enterprise Park (SEP).

Situated at the west end of campus, our SEP is already one of the largest in the UK, with 63,000m² of floor space. It is a permanent home to 1,500 staff from over 40 partner organisations. The successful development of the site followed purchase of the former British Gas site in 2003, with the most recent addition being SportPark, opened in 2010.

The plans to expand, announced in January, offer the exciting prospect of a substantial long-term boost for the local economy and employment, with an estimated 4,000 new jobs, and position Loughborough as a hub for knowledge-based, high growth businesses.

Outline planning permission has already been agreed for a 7.8 hectare site extending west from SportPark. In the longer term, further expansion on 22 hectares of land alongside Snell’s Nook Lane is anticipated.

Whilst the whole project will be developed over the next 15 to 25 years, discussions are at an advanced stage for the next two projects on site. The first is a new Innovation Centre to house advanced technology start-ups businesses. The building proposed is twice the size of the existing Innovation Centre and will be designed to facilitate the formation of the all-important supportive community.

The second building being planned will provide expansion space for existing partners already based on the SEP.

Finance is crucial to the success of the project and the University’s strategy includes pursuit of appropriate financial support from external sources. Significantly the project already has the support of Charnwood Borough Council, Leicestershire County Council and the Leicester and Leicestershire Enterprise Partnership who see SEP as potentially transformative for the town and region. The Borough and County Councils have now committed £23 million in financial support and the SEP features as one of four key projects locally in the recently confirmed City Deal.

Pro Vice Chancellor (Enterprise) Professor Steve Rothberg explains: “As a University that is proud of its reputation for working with business, the SEP is a brilliant opportunity to build a knowledge-based business community right on our own doorstep.

“We are already seeing growing interactions with our SEP partners, from work placements and graduate recruitment to research and knowledge exchange projects. I am sure more and more academics will look to SEP to build collaborations and the Enterprise Office is ready to help with this.”
The University has a strong tradition of naming its buildings after people who have played an important role in its history and development. newsatlboro looks into some of the men behind the mortar.

**WHAT’S IN A NAME?**

**1. STEWART MASON**  
Stewart Mason was a former Leicestershire County Council Director of Education. In 1977, he chaired a winning party that brought together the University and College of Education as a single institution. The building was opened in 2005.

**2. SIR DENIS ROOKE**  
Former Chairman of British Gas Sir Denis Rooke became Chancellor of the University in 1989, serving the University for 14 years.

**3. BROCKINGTON**  
Sir William Brockington was Director of Education for Leicestershire for 44 years from 1971 to 1994. Keenly interested in technical education, it was he who first outlined Edward Haslgrave’s plan to establish the Technical Institute in Loughborough.

**4. HASLEGRAVE**  
Dr Herbert Leslie Haslgrave became Principal of Loughborough College of Technology in 1953 before becoming the University’s first Vice Chancellor from its inception in 1966 to his retirement in 1967.

**5. SCHOFIELD**  
Herbert Schofield was the driving force behind Loughborough Technical Institute’s transformation to the world-famous Loughborough College. Originally born in Halifax, he was appointed Principal of the Institute in 1915 and remained Principal of it and its successors until 1950. The Schofield building was opened in 1953.

**6. BASTARD GATES**  
Originally the main entrance to the Playing Field site, the Bastard Gates were named after William Bastard, who was Chairman of the College Governors when the gates were opened in 1934.

**7. SIR DAVID WALLACE**  
Sir David Wallace was the University’s sixth and longest serving Vice Chancellor. He held his position from January 1994 to December 2005 and was knighted in 2004 for services to United Kingdom higher education.

**8. JOHN COOPER**  
A former student, John Cooper won double silver in the 1964 Tokyo Olympics. He was tragically killed in an air crash in 1974, aged 33. The Students’ Union bar in the Sir John Cooper Building also bears his name.

**9. EDWARD BARNESLEY**  
Edward Barnesley was a leading figure in the “Cotswold School of Furniture making”, which sought to produce traditional, hand-crafted pieces. He taught at Loughborough College in the pre-war period and many of the pieces crafted by his students are still present in the University today.

**10. DAN MASKELL TENNIS CENTRE**  
Opened in 1995, the tennis centre is named after the distinguished BBC tennis commentator whose connection with Loughborough went back to the Second World War when he was based here as head of the RAF Medical Rehabilitation Unit. During this time over 10,000 wounded airmen passed through the College fit to return to active service.

**11. JOHN PICKFORD**  
Professor John Pickford was a lecturer in Civil Engineering at Loughborough College. He founded WEDC (the Water Engineering and Development Centre) in 1971.

**12. SIR JOHN BECKWITH**  
The Sir John Beckwith Centre for Sport was opened in 2002 by Paula Radcliffe. The building is home to the Sports Development Centre and School of Sport, Exercise and Health Sciences, and was part-funded by Sir John Beckwith, who established the Beckwith Trust in 1994. The Beckwith Trust were also based in the building until they moved to SportPark in 2010.

**13. HAZLERIGG & RUTLAND**  
The former student halls were both named after the men who opened them. Loughborough’s first purpose-built hall of residence was opened by the Duke of Rutland in October 1932; it cost £22,000 to build and housed 80 students. It was followed by Hazlerigg Hall in 1938, opened by Lord Lieutenant of Leicestershire Sir Arthur Haslgrave.

**14. EDWARD HERBERT**  
Sir Edward Herbert was Chairman of Governors at Loughborough College of Technology from 1957-63.

**15. SIR FRANK GIBB**  
Francis Ross Gibb came to Loughborough in the 1940s to study Aeronautical and Mechanical Engineering before starting a new career in civil engineering with Taylor Woodrow in 1948. He went on to become the company’s Chairman and Chief Executive.

**16. STEWART MILLER**  
The former Director of Engineering and Technology at Rolls Royce was Chair of the University Council for five years from 1995.

**17. SIR DAVID DAVIES**  
Sir David Davies became the University’s fifth Vice Chancellor in April 1988 and served until 1993 when he resigned to become Chief Scientific Adviser to the Ministry of Defence.

**18. SIR ARNOLD HALL (ADMIN 1)**  
Sir Arnold Hall was installed as the University’s Chancellor in September 1989 and served until 1989.

**19. COPE AUDITORIUM**  
Opened in 2001, the Cope Auditorium was named in honour of a renowned local family whose Foundation made a financial gift towards its refurbishment.

**20. MARTIN HALL**  
Built as a central teaching and administration hub, Martin Hall was named after Sir Robert Martin, a former Chairman of the College Governors.

**21. KEITH GREEN**  
Chartered civil and structural engineer Keith Green was Pro-Chancellor and member of Loughborough University Council.

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Leading the way in teaching and learning

Loughborough is renowned for the quality of its teaching, regularly achieving high rankings in league tables and independent student surveys. But is the archetypal image of large numbers of students in vast lecture theatres still a fair representation of university teaching today? newsatlboro takes a look.

From BA to MA

At Loughborough, all undergraduate students and the majority of postgraduates are studying for what are traditionally known as ‘taught degrees’. These involve a proportion of formal teaching, given by an academic member of staff, which students are then expected to supplement through self-study.

Taught degrees at Loughborough can lead to a range of qualifications, from an undergraduate BA or BSc (meaning Bachelor of Arts or Science) to a postgraduate MBA or MDes (Master of Business Administration or Master of Design).

Each taught degree comprises a number of core, compulsory modules, which students have to study. They are then able to take a range of optional modules, allowing them to tailor their own degree, to a certain extent.

Conventional classrooms and exciting e-learning

Teaching at Loughborough is delivered through a variety of different environments.

**Lectures** are perhaps the most traditional way of teaching at universities. They give students a broad understanding of particular subject areas and provide the foundations for further study. However, lectures don’t just involve large numbers of students taking notes while their lecturer speaks or gives a presentation; students are able to actively engage and participate in the lecture.

**Seminars, tutorials and workshops** involve far fewer students than lectures – perhaps up to just 30. They allow the students to discuss a subject in greater detail with their tutor and with each other, or to talk about the presentations and papers the students have been asked to prepare.

**Practical sessions** are held outside the classroom and can involve work in a laboratory, off-campus field trips or theatre-based work, for example.

These days, however, advancements in technology are playing an increasingly important role in students’ learning and are broadening the ways that they can learn. E-learning has been a constituent part of Loughborough’s teaching for many years now, but with the emergence of smartphones and tablets, students are increasingly wanting to be able to study ‘on the move’.

At the heart of e-learning at Loughborough is the Virtual Learning Environment (VLE), known as ‘Learn’, which provides every student with tailored support for the course they’re studying. Lecture notes, reading lists and discussion forums are all available on Learn and, increasingly, students are also able to access recorded lectures through ReVIEW, an automated lecture capture system that is installed in a number of teaching rooms across the campus.

“Today’s students are always connected, wherever they are and whatever they’re doing,” says Charles Shields, the University’s Head of E-learning. “It’s up to us to ensure that the learning experiences we provide reflect this reality, and you can already see the impact this is having in so many ways, from elite athletes to students able to access captured lectures on ReVIEW while away at training camps, to large lectures made more engaging through the use of electronic voting systems.”

Supporting teaching and learning

Outside the lecture theatres, seminar rooms and e-learning, Loughborough offers its students a range of specialist academic support to help them achieve their full academic potential. The English Language Support Service, for example, helps students to develop the language and study skills needed for their degree, while the Mathematics Learning Support Centre helps undergraduates and postgraduates studying any subject to advance their mathematical and statistical abilities.

But as well as helping its students with their learning, the University provides support for the many staff across the University who are involved in teaching.

The Teaching Centre, located in the Rutland Building, was set up to foster and promote effective practice in learning, teaching and assessment. Through training courses, professional development and advice, the Centre supports the professional development needs of academic staff and others with responsibilities for learning and teaching, from those who are new to UK universities to well-established lecturers.

Among the Teaching Centre’s many activities are two annual award schemes, which allow the University to recognise, celebrate and promote excellence in learning and teaching.

The Teaching Innovation Awards offer up to £5,000 to academics across the University for new projects that help to improve the quality of teaching at Loughborough. Eight awards were made in 2012 and the recipients of the 2013 awards were announced as newsatlboro went to print. Details are available on newsatlboro online at www.lboro.ac.uk/staff/news.

The second scheme, the Research-Informed Teaching Awards, was launched just last year to recognise and celebrate academics who have demonstrated excellence in research informed teaching. The inaugural recipients were Professor Jonathan Chambers (Electronic, Electrical and Systems Engineering), Professor Barbara Jaworski (Mathematics Education Centre), Dr Adrian Spencer (Aeronautical, Automotive, Chemical and Materials Engineering) and Dr Carol Robinson (Mathematics Education Centre).

“Many Loughborough students have a passion for sport and so I used research into mathematics in sport to motivate and enthuse them,” explains Dr Robinson. “For instance, I asked first year students to use the Duckworth-Lewis Method – a complicated mathematical formula regularly used in the cricketing world for rain-affected play – to calculate the target score that the team batting second would need in a one-day match.

“I’ve also undertaken research to demonstrate how the use of electronic voting systems can improve students’ engagement in class. As a result I was able to set up a staff interest group in this subject, with over 40 staff members.

“One thing that makes Loughborough special is the fact that we are able to integrate research, teaching and enterprise, and it’s great that these awards enable us to celebrate this.”

www.lboro.ac.uk/services/teachingcentre
A high-tech solution to complex creations

3D printing is a manufacturing revolution, allowing physical complex objects to be built directly from 3D computer data without the need for tooling and with minimal human intervention. Loughborough is leading the way in the development of this technology; newsatboro investigates how 3D printing is being utilised across the campus.

Artistic freedom for architects

Academics from the School of Civil and Building Engineering are developing new 3D printing techniques that could free architects from the constraints of current construction methods.

Architects are creating stunning buildings with intricate geometric forms, but many never progress beyond the designer’s screen because their complexity makes them too costly to construct. The Freeform Construction project, led by Dr Richard Buswell and Professor Simon Austin, is looking to overcome these barriers.

Using the new technology, a special type of concrete is deposited very precisely under computer control, layer by layer from a 3D computer model. This allows for very complex, freeform building components to be created without the high cost penalties associated with traditional building methods.

Dr Richard Buswell said: “Using Freeform every section of a building could be unique if necessary, produced by calling up a new design on screen and setting the process to work.”

“Components could be created with slightly-dented surfaces, compliant with optional voids for weight reduction or the inclusion of building services. Because each piece would be tailor made, there would be virtually no waste. The possibilities are endless.”

Surgical simulations

Professor Russell Harris from the School of Mechanical and Manufacturing Engineering is using the limitless capabilities of 3D printing to aid surgeons preparing for complex sinus surgery.

Using CT scans from actual patients Professor Harris is creating detailed surgical training aids, using materials that closely replicate the complex nature of the 3D printing process.

“Making it viable to provide trainee surgeons with an almost limitless range of scenarios which can be tailored to suit the training needs of each individual.”

Chemical reactors

Dr Steve Chetiste from the Department of Chemistry and Dr Steve Edmondson from the Department of Materials are developing advanced chemical reactors that are manufactured by 3D printing. The work involves close collaboration with the Additive Manufacturing Group at Loughborough and Nottingham.

The approach offers a new paradigm for the preparation of chemical reactors as the greater design freedom allows the precise shape to be tuned for particular chemical reactions, optimising output and purity.

Reactor geometries that are difficult, expensive or impossible to build otherwise can be made using several different techniques and materials, and integration with existing chemical and analytical devices is possible.

Dr Chetiste said: “The use of 3D printing in chemistry is at a very early stage, however already we are seeing advantages in terms of reaction efficiency. Going forward, the possibility of designing intelligent reactors that can monitor the chemical process and control the whole procedure is very exciting.”

Restoring China’s Forbidden City

Dr Ian Campbell and PhD student Fangjun Zhang from the Loughborough Design School are using 3D printing to help restore ancient artefacts from the Palace Museum in Beijing.

The museum, also known as the Forbidden City, is currently undertaking major renovation work mandated by the Chinese Government. This is a huge project that involves thousands of individual historic relics.

Using conventional methods, the objects need to be measured, photographed and repaired using manual techniques - an extremely time-consuming and expensive task. However, research by the Design School has adapted 3D printing to enable it to be used for archaeological restoration.

The damaged artefacts are captured using laser or optical scanners and digitally restored ready for the 3D printing process. The restoration work at the Forbidden City has been such a success that they have now been asked to carry out some work at the Summer Palace Museum in Beijing.

Dr Campbell said: “We are delighted to be able to use this very modern and innovative technique to restore and safeguard some of China’s most important artefacts. There is real scope for this technique to be used in museums across the world.”
High bar silver for Sam at European Gymnastics Championships

Loughborough-based gymnast Sam Oldham has won silver in the men’s high bar at the 2013 European Championships in Moscow.

Sam, who was a member of the GB squad that won the Olympic bronze medal in the team event at the London 2012 Games, executed a difficult routine to score 15.133 and win Britain’s first ever high bar bronze medal in the 149th men’s high bar competition.

Sam’s silver was the fifth medal won by the Great Britain squad at the event.

Loughborough Students sign professional contracts with Cornish Pirates

Rugby Football Union Championship side Cornish Pirates have announced the signing of three current Loughborough Students Rugby players to their squad.

Craig Holland, Jake Parker and Joe Atkinson are moving to the Pirates for the 2013-14 season, once they have completed their studies at Loughborough.

Loughborough Students Head Coach Dave Morris commented: “Joe is an outstanding athlete and is our top try-scoring in National 1 this season, and Jake has been one of our outstanding performers over a number of years. As for Craig, he is another exciting talent who has also played for England Students. All three will thrive working with the coaches alongside so many other gifted individuals.”

LOUGHBOROUGH HOCKEY PLAYERS SELECTED FOR SENIOR INTERNATIONAL WOMEN’S PROGRAMME

Two current Loughborough Students women’s hockey players are celebrating after being selected by Great Britain and England Hockey for the senior centralised training squad.

Defender Giselle Asley, who is studying Sport and Exercise Science, has been selected following a successful senior England international debut earlier this year.

Also returning to the squad is Accounting and Financial Management student Laura Unsworth (pictuere), who won a bronze medal at the London 2012 Olympic Games.

Giselle and Laura are joined by former Loughborough players and alumni Beckett Herbert, Maddie Hinch, Hannah MacLeod and Nicola White.

In the men’s centralised squad Loughborough Sport Scholars Andy Bull, David Condon and Henry Weir have been selected, alongside alumni Barry Middleton and Richard Smith.

Loughborough to host international women’s cricket

The University is to host international women’s cricket this summer following an announcement by the England and Wales Cricket Board.

England will play Pakistan in two NatWest women’s one-day internationals, with the second being played at Loughborough on 3 July.

The teams will also play two Twenty20 fixtures at the University on 5 July.

England Women’s Academy are to play Pakistan on campus ahead of the international fixtures. The Academy will play two back-to-back Twenty20 matches and one 50-over match against Pakistan on the 27 and 29 June.

Matt on the podium in debut world cup event

Systems Engineering graduate Matt Gotreil claimed a gold medal in the men’s eight boat race at the first Samsung World Rowing Cup event of 2013.

Matt, who only started rowing when he came to the University in 2009, made his first senior Great Britain squad when he was selected for the European Championships last year.

Former Loughborough Rowing team mates Jonny Walton and Monica Relph were also selected by Great Britain to compete at the event in Sydney.

#Jointhe5000 a speedy success

Loughborough Students Athletics Club member Alex Wall-Clarke sped to victory in the first ever 5000 metres road race to be held on the University’s campus.

Also running at the event were couple Adrienne and Robin Jelley who, having recently settled in the UK from South Africa, successfully completed the course together in just over 45 minutes.

With over 80 students and volunteers marshalling the course, the participants made their way from the start line at SportPark, along the route passing some of the University’s landmark buildings, before the finishing at the Loughborough University Stadium.

Loughborough Students coaches appointed by England Hockey

Loughborough Students men’s hockey coaches David Ralph and Jon Bleby have been appointed by England Hockey as assistant coaches to work with the England and Great Britain men’s and women’s squads.

Together they will support head coaches Jason Lee (women) and Bobby Cratchley (men) for the 2013-2016 Olympic cycle.

David and Jon will be joining fellow Loughborough alumni Danny Kerry (Performance Director) and Jason Lee at England Hockey, in leading and supporting the national performance squads on the Road to Rio.

Back on campus Jerome Goudie has been appointed as the new Head Coach for the Loughborough Students men’s hockey programme.

Jerome is well known at Loughborough as a former player and student. He also has a successful international career winning over 300 caps for England and represented Great Britain 21 times.

Recently Jerome has been making a name for himself as a fine coach and developing players through his role of leading the Loughborough Students women’s hockey team.
University to open campus on London’s Olympic Park
Loughborough University is to establish an academic campus, offering postgraduate and executive education, at iCTY on the Queen Elizabeth Olympic Park in London.
The Independent, BBC East Midlands Today, BBC Online, Inside the Games, Evening Standard, Times Higher Education, Loughborough Echo, Leicester Mercury

Scientists develop breath test for stress
Researchers from the Department of Chemistry have found that there are six markers in a person’s breath that could be used to identify stress.
The Times, Daily Telegraph, The New Age (South Africa), Globe and Mail (Canada), Fox News (US), The Times of India, Chemistry World

Born to run
Some people will never make good marathon runners because of their genes, according to Loughborough scientists. Researchers, led by Professor Jamie Timmons from the School of Sport, Exercise and Health Sciences have uncovered a key group of 30 genes which determine how the body responds to stamina training, and whether it is capable of running a marathon.

Battenburg car design
Ergonomists from the Design School have won the Institute of Ergonomics and Human Factors (IEHF) Ergonomics Design Award for their development of the UK’s first nationwide unified livery for police vehicles. Research into the livery – a yellow and blue block ‘Battenburg’ design – was commissioned by the Home Office in a bid to enhance the safety of police officers and members of the public.
Professional Security, Loughborough Echo, Leicester Mercury

Goal-line technology
Dr Andy Harland, Director of the Sports Technology Institute, comments on the introduction of goal-line technology to The Premiership from the 2013-14 season.
BBC Radio Five Live, BBC News, BBC regional radio stations