

Pharmaceutical Management

BSc Hons 3 years full-time course





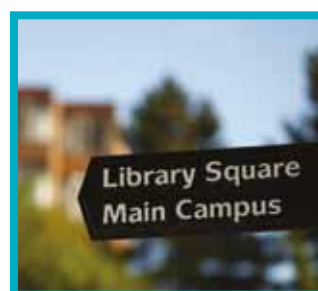
Three people (two men and one woman) are leaning on the railing on the upper level.

Three people (one woman and two men) are leaning on the railing on the lower level.

MATT LAMB PAINTINGS

CONTENTS

| | |
|---|----|
| Introduction | 2 |
| Special features | 3 |
| BSc (Hons) in Pharmaceutical Management | 4 |
| Course content | 5 |
| Course structure diagram | 8 |
| Admission | 10 |
| Your questions answered | 11 |
| The student view | 12 |
| Career opportunities | 14 |
| The graduate view | 15 |
| The University and its campus | 16 |
| The City of Bradford | 17 |



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The University of Bradford - **Confronting Inequality: Celebrating Diversity™**
The University of Bradford is committed to promoting equality, diversity and an inclusive and supportive environment for students, staff and others closely associated with the University in conformity with the provisions of its Charter.

Introduction

The pharmaceutical science aspect of the course specialises in drug design, drug delivery and formulation and actions of drugs on the body. The management programme introduces the foundations of economics, finance, marketing, and production/operations management. In the final year, these skills are brought together with the study of clinical data management, project management in pharmaceutical development and drug regulation necessary for the approval of new drugs.

Bradford has one of the largest Pharmacy departments in the UK, offering a programme of undergraduate and postgraduate taught courses and research in pharmaceutical topics.

The BSc in Pharmaceutical Management is an innovative course that gives you the opportunity to combine high-level skills in pharmaceutical science with management – opening up a wide range of career opportunities in the pharmaceutical industry, the NHS, and numerous related areas.

Students can draw on the extensive expertise within Bradford School of Pharmacy, the Divisions of Biomedical and Clinical Sciences, as well as that at the University's long-established School of Management.

In the latest Teaching Quality Assessment, Bradford School of Pharmacy was awarded the top grade of 'excellent' for the organisation and delivery of its taught courses, attaining 23 points out of the maximum of 24, indicating that your learning experience will be of the highest quality.



“ I would definitely recommend the course to anyone, there aren't that many universities that do this course and I have found it to be really good. I think that students studying this course should be prepared to undertake a challenging three years.



Nabila Akram – Final year BSc (Hons) Pharmaceutical Management



Newly Refurbished Laboratories

Since 2007, the laboratories in Bradford School of Pharmacy at the University of Bradford have undergone extensive refurbishment and now provide state-of-the-art facilities, ensuring that your learning experience will be of the highest quality.

Course Flexibility

Pharmaceutical science is concerned with the science underpinning drugs and medicines. It involves physiology and the effects of drugs on the human body, drug chemistry and medicine formulation. You may focus on one or more of these different aspects and will also be introduced to disciplines concerned with marketing, accounting, economics and resource planning.

Importantly, you'll also develop good communication, team-working, time management and leadership skills.

Our degree courses are designed to give you flexibility of choice. After the first year you can build on your personal strengths and interests for the second and final years. In consultation with your tutors, you choose the balance between the specific

components of your course and decide whether or not to include or develop further language studies. Finally, you will have the option of a year out on industrial placement between the second and final year. This valuable practical experience with a major pharmaceutical company, a PCT or the NHS will improve your understanding of final-year material and enhance your employability.

Focus on Career Development, Personal and IT Skills

By the end of the degree you will be able to make full use of information technology, including areas such as data retrieval,



manipulation and presentation and e-commerce. Specific modules support your personal development and career planning. We consistently have a good graduate employment record. Of our 2008 graduates, 100% were in employment or further study within six months of graduating.*

** These statistics are derived from annually published data based on those UK domiciled graduates who are available for employment or further study and whose destinations are known.*

Language Option

In addition, you may choose to study a European language or Arabic. With increasing globalisation in commerce, the ability to communicate in another language will widen your opportunities even further.

A Friendly Atmosphere

With an intake of around 30 undergraduate students per year, you can be sure of a close-knit group and an atmosphere conducive to serious but enjoyable study. Should you have any problems, your personal tutor will be on hand to help out.

The BSc (Hons) in Pharmaceutical Management

Our BSc in Pharmaceutical Management combines pharmaceutical science with studies in management techniques and an optional European language or Arabic.

The innovative programme provides you with a flexible and exciting opportunity to combine scientific and management skills that will satisfy a range of rewarding careers in either the pharmaceutical, life science and biotechnology industries or healthcare services.

The aim of the course is to provide graduates with the skills to take up positions as 'scientifically-aware' managers within the pharmaceutical or related industries. On completion of the degree you will have significant skills in science and management, while taking one of the languages offered could give a European dimension to your future career options. High graduate employment in areas of marketing, healthcare and retail management reflects the breadth of knowledge and the wide range of skills provided by the course.

With the NHS being the largest employer in the country and the pharmaceutical industry being globally successful, the opportunities for graduates with good management skills and a breadth of knowledge in the pharmaceutical sciences are wide and varied. Within the pharmaceutical industry, scientists may undertake management roles and responsibilities without necessarily any feel for the financial or human aspects of their work, or alternatively other graduates may be qualified managers, but have little appreciation for the scientific nature or constraints for their product. The aim of the Pharmaceutical Management programme is to provide you with skills in both areas and to develop those personal qualities that are vital to an effective management culture.



The course is unique in the UK and is ideal for anyone interested in a scientific, health-related degree that offers routes into management.

If you want a challenging career in either of the areas of healthcare or management, then Pharmaceutical Management is an excellent choice.

If you do not have the necessary science qualifications for direct entry to the first year, you can apply via the Science Foundation Year course.





The course is designed on a modular basis with the academic year divided into two semesters. In each semester you study six modules (or equivalent), twelve in a year, making a total of thirty-six modules over the three years of the course. With advice from your personal and year tutors, you can choose your own pathway through the course. This will be dependent on your initial qualifications, the selection of appropriate modules that are obligatory prerequisites for modules in later years, and timetabling restrictions.

Science Foundation Year

If you do not have adequate science qualifications for direct entry to the first year of the course, then you can apply to our Science Foundation Year. This will give you a basic grounding in subjects such as chemistry and biology that you will need before progressing to the first year of the course.

What are the module choices?

At the outset, you will study a core pharmaceutical science pathway. In addition, you will take four management modules and a module in communication skills.

In the second year you will continue with your pharmaceutical science pathway and choose further management modules dependent on your first-year preferences. You will also take core modules in 'Statistics and Experimental Design' and 'Career and Personal Development'. If you wish to pursue a language in the second year, French, German, Spanish or Arabic is offered at beginner, post-GCSE level or post-GCE A level.

Your module choices in the final year will consolidate your science and management pathways according to your personal strengths and career aspirations. In addition, you will undertake an extended piece of work in the form of a dissertation. This will enable you to develop your skills in critical analysis and produce a professional presentation that you might like to present to prospective employers.



Course Content

First year

Pharmaceutical Science Modules

In the first year, you take seven modules devoted to the fundamentals of pharmaceutical sciences. These include:

Human cells and systems, Pharmaceutical microbiology

The *Human cells and systems* module covers the structure and function of cells and tissues and the concepts of gene structure and disease. *Pharmaceutical microbiology* outlines the properties of microbes that are relevant to pharmaceutical sciences. You are also introduced to basic laboratory techniques used in microbiology.

Human physiology 1 & 2

Students will study anatomy, physiology and pathophysiology, ranging from the functions of excitable cells to the control and integration of body systems.

Pharmaceutical science 1 & 2, Assessing the quality of medicines

Students are introduced to organic and physical chemistry, with particular relevance to pharmaceutical products and to their analysis.

Key Skills

Communication skills

This is a core module in the first year. This module is intended to develop your written and oral communication skills, the use of information technology and to assess your use of your Personal Development file for your learning. Teamwork skills are also developed through small task-based group work. These skills are all vital in the competitive market for employment.

Management Modules

You will take four modules that are devoted to the fundamentals of management.

Business economics

This is an introduction to key economic concepts. With subjects such as 'globalisation' and 'perfect competition and monopoly' you are encouraged to develop an awareness of key economic policy debates from the perspective of business decision makers.

Foundations of production/operations management

This module introduces you to the role of production/operations management within an organisation. Topics such as 'delivery system management', 'operating system design' and 'product service design and variety' will enable you to understand the need for addressing management problems in a structured manner.

Foundations of marketing

In this module you examine the behaviour of consumers. You will be introduced to the concepts and principles of marketing.

Foundations of accounting

Foundations of accounting provides a broad understanding of accounting and relevant accounting concepts.

Second year

Pharmaceutical Science Modules

In the second year there is also a core of pharmaceutical science – outlined below:

Pathophysiology and pharmacology of systems 1 & 2

These modules carry forward the knowledge of physiological systems gained in the first year and examine the effect of drug action on the major physiological systems of the body.

Essential biochemistry

This module includes topics such as the principles of biochemistry and the study of how drugs interact with the body's metabolic pathways. You are also introduced to the principles of nucleic acid and protein synthesis.

Production of solid dosage forms

Production of solid dosage forms provides the background to the role of material sciences in the formulation, processing and testing of dosage forms by introducing the principles of pharmaceutical pre-formulation, formulation and product evaluation.

Further optional science modules will also be available – see course structure diagram for current modules

Key Skills

Two core modules are taken in the second year, *Career and personal development* and *Statistics and experimental design*. The first of these modules is provided by the Career Development Service within the University of Bradford and develops your expertise in employment application including CV preparation skills, interview technique and understanding of psychometric testing. The latter module prepares you for the dissertation in Stage 3 and incorporates critical evaluation of pharmaceutical data and develops your skills in science writing, numeracy and statistics.

Management Modules

You may choose four management modules from a number of options based upon your preference and progress. This may include the following modules:

Marketing management and strategy, Marketing communications

These modules build on the earlier marketing module. You consider the full range of marketing management and strategy frameworks and the role of integrated marketing communications. Using case studies, you will begin to apply marketing management and strategic concepts to practical business situations.

Organisational design

In *Organisational design* an understanding of the nature of organisations in terms of their design and development will be gained.

Financial management

Financial management will provide an introduction to the key decision areas in financial management, an understanding of how businesses are financed, and how methods of financing can affect decision making.

Resource planning

Themes introduced in *Foundations of production/operations management*, such as quality management and capacity management, will be extended, and the application of operations management in both manufacturing and service environments will be explored.

Language Modules

You may choose to take two optional language modules, one in each semester. The languages currently available are French, German, Spanish and Arabic. These may be taken at a level corresponding to beginner, post-GCSE or post-GCE A level.

An intercalated year in work

Between the second and third year of the course, you may opt for a year out in the pharmaceutical industry, hospital service or other related industries. Several Pharmaceutical Management students take this opportunity each year in a pharmaceutical company or NHS hospital. This valuable experience provides you with numerous opportunities to put the concepts and theories learnt in the first two years into practice and enables you to enter the final year with much greater confidence.



Final year

Pharmaceutical Science Modules

Elective modules

You select one of the two following ELECTIVE pharmaceutical science modules according to your earlier preferences.

Common diseases and their treatment

Common diseases and their treatment is designed to increase your understanding of common diseases and the drug therapy which is required to treat these diseases.

Product innovation in the pharmaceutical industry

This provides students with the opportunity to develop their knowledge and understanding of the process of product innovation in the pharmaceutical industry.

Core modules

Project management in pharmaceutical development, Drug regulations and quality assurance, Clinical data management

These modules, developed with pharmaceutical industry managers, bring together the disciplines of pharmaceutical science and management. *Project management in pharmaceutical development* examines the stages involved in the development of a new drug with emphasis on cost minimisation. In *Drug regulations and quality assurance* the systems and procedures for the regulatory control of drugs are studied. *Clinical data management* examines how data on the efficacy of drugs is collated and evaluated.

Key Skills

In the final year, you will write an independent dissertation on a topic chosen with your supervisor. This takes the form of a project report, and it is equivalent to two modules.

Management Modules

Your choice of management modules in the final year will build upon those studied in previous years. A wide range of options include: *Retail marketing and Services marketing*, where the fundamental concepts of marketing are applied to various retail sectors; *Human resource management*, where the organisation and deployment of personnel is studied; and *Electronic commerce*, which is the study of business transactions carried out via the World Wide Web. See pages 8 and 9 (course structure diagram) for the current range of management modules.

Language Modules

You may take a further language module, as in the second year of the course. Students should be aware that the language module taken in stage 3 will count for credit only, the mark awarded will not be included in the calculations for the final degree award.

Course Structure Diagram

| First Year | Second Year |
|---|---|
| <p>Pharmaceutical Science Modules</p> <p><i>Core modules:</i></p> <ul style="list-style-type: none"> ■ Human physiology 1 & 2 (<i>two modules</i>) ■ Human cells and systems ■ Pharmaceutical microbiology ■ Pharmaceutical science 1 & 2 (<i>two modules</i>) ■ Assessing the quality of medicines <p>Management Modules</p> <ul style="list-style-type: none"> ■ Business economics ■ Foundations of marketing ■ Foundations of production/operations management ■ Foundations of accounting <p>Key Skills</p> <ul style="list-style-type: none"> ■ Communication skills  | <p>Pharmaceutical Science Modules</p> <p><i>Core modules:</i></p> <ul style="list-style-type: none"> ■ Pathophysiology and pharmacology of systems 1 & 2 (<i>two modules</i>) ■ Essential biochemistry ■ Production of solid dosage forms <p><i>Optional modules:</i></p> <ul style="list-style-type: none"> ■ Toxicology ■ Genetics and health ■ Healthcare management ■ Immunology <p>Management Modules</p> <p><i>Four modules from a wide range including:</i></p> <ul style="list-style-type: none"> ■ Financial management ■ Management of service operations ■ Marketing communications ■ Marketing management and strategy ■ Organisational design ■ Resource planning ■ Internet marketing: technology and strategy ■ Capital markets, investment and finance <p>Key Skills</p> <ul style="list-style-type: none"> ■ Career and personal development ■ Statistics and experimental design <p>Language Modules</p> <p>French, German, Spanish or Arabic (beginner, post-GCSE or post-GCE A level) (<i>up to 2 modules</i>)</p> <p><i>optional – you may take additional science modules instead</i></p> <p>Possibility of an intercalated year in a work placement in the pharmaceutical industry, hospital service or other related industries</p> |

Final Year

Pharmaceutical Science Modules

Elective modules:

EITHER Common diseases and their treatment
(double module)

OR Product innovation in the pharmaceutical industry
(double module)

Core modules:

- Clinical data management
- Drug regulations and quality assurance
- Project management in pharmaceutical development

Management Modules

Four modules from a wide range including:

- Electronic commerce
- Human resource management (two modules)
- Global business environment
- International business strategy
- World-class operations
- Retail marketing
- Services marketing
- Ethics in business and society
- Understanding strategic management
- Health economics

Key Skills

- Dissertation (double module)

Language Module

French, German, Spanish or Arabic: advanced level, or a second language (1 module)

optional – you may take an additional science or management module instead

A total of 12 modules must be selected each year





How is the course taught?

Each module on the course represents 100 hours of study time of which up to 25 hours is taken up by formal teaching, which may be lectures, laboratory classes or tutorials – depending on the nature of the module. You are then expected to complete the remainder of the 100 hours by private study, completion of coursework and directed reading. The content of some modules continues on from previous modules, and these can only be taken if you have satisfactorily completed the appropriate prerequisite module. Other modules are classed as ‘double’ modules, which carry double the weighting. Those modules which develop key skills (such as *Communication skills* or *Career and personal development*), are compulsory and must be taken by every student.

How is the course assessed?

Each module is normally assessed during the semester in which it is taught. Transfer to the second and third years of the programme is dependent upon successful completion of the previous year. Your module marks in the second and third years will then contribute to your final degree classification.

The form of assessment varies between modules: most modules use a combination of end-of-semester examinations (either short answer, multiple choice or essay questions) and coursework such as practical reports, computer assignments or essays. Modules based on transferable skills may also be assessed by an individual or group presentation. A dissertation, a report of approximately 6,000 words, forms a substantial component of the final-year assessment. Your degree award, therefore, is based on a mixture of assessment styles giving a reliable indication of your all-round ability.

What if I have difficulties?

At the beginning of the course, you will be allocated to a member of academic staff who acts as your personal tutor throughout the course. Your tutor will give you advice on any problems which you may have that affect your studies. If appropriate, they will direct you to the specialist welfare resources of the University to ensure that serious problems can be dealt with so that they have the minimum effect on your studies.

Personal tutors also monitor your use of a ‘Personal Development File’, which assists you with your learning process and helps develop your transferable skills to strengthen your academic and career development. In addition, a year tutor is assigned to each year group of students, to assist them with module selection and progress, and offer a further listening ear should you need someone to turn to for advice.

The Student View



Nabila Akram

Final year BSc (Hons) Pharmaceutical Management

One of the things which most appealed to me about this course was the different routes you can choose within the course. I'm not the type of person who likes to stick to just one thing, so the variation is great.

At the end of this year I have a place at Leeds where I will be doing my PGCE and then I'll hopefully go on to be a science teacher. I know that because of the variety of the course, if for any reason that idea doesn't work out, I can always go into another, related field.

One of the most useful modules was career and personal development, where you are taught how to create the tailored CV that was guaranteed to get you your goal! This subject is a really good preparation for real life work. Before this course I could never have stood up in front of a group to give a presentation, but I now feel quite confident doing that.

Personally I've concentrated on the biology side as I hope to teach biology A level. But how often do you hear people say I have studied accounting, economics, social philosophy, psychology, marketing, immunology, pharmacology, pharmaceutical chemistry, physiology, dosage form design, and French ... all under one degree title!

I have also been involved in planning a conference, completed a student tutoring scheme (which is run by the University), and have also been a summer school assistant.

There have been many instances where I have been involved in group projects; these prepare you for project development in pharmaceutical industries. Our coursework was based on major companies such as Direct Line, Roche Pharmaceuticals, AA, and Citie Bank Greece.

The workload of the course in the first year was no problem, in the second year you really find out you're at University! The third year has been hard as well, but as long as you put the hours in and do the work, you'll be all right. The staff have been excellent as well and are all really helpful.

The facilities are also really good, a lab is always available. There is some travelling to do to get to the School of Management, but it's a good chance to meet new people.

I would definitely recommend the course to anyone, there aren't that many universities that do this course and I have found it to be really good. I think that students studying this course should be prepared to undertake a challenging three years.

Marvin Munzu

Graduate Pharmaceutical Management, Trainee NHS Human Resource Manager

The Pharmaceutical Management course opens you up to many different subjects such as psychology, accounting and pharmacology. The mix of teaching styles is really stimulating – science is taught through lectures and practicals, whereas business is taught through lectures and small group tutorials. You get the benefit of learning from both the highly regarded Bradford School of Management and the excellent Bradford pharmacy course on this unique course.

The NHS is very interested in Pharmaceutical Management graduates, as they need trained managers who really understand science. There were over 350 applicants for the graduate training scheme that I am on, and studying at Bradford definitely helped me get one of the seven vacancies. My employers were impressed with the unusual combination of management and science on the course and the practical nature of the work I'd covered.

I am hoping to build a career with the NHS and become a Senior Manager. The Impact careers scheme was an enormous help in getting on the training scheme, with regular speakers coming in to talk about employment, interview practice, workshops and one-to-one sessions. It taught me everything I needed to know about job hunting and gave me the confidence to get the job I really wanted. They also helped me to set up an undergraduate summer placement with the Inland Revenue in Bradford that played a big role in getting my current job.

Bradford is a nice city to study in. It is cheap and very friendly and there are many community events and development projects going on. The diversity is the first thing you notice when you arrive. It's also quite a small city and very easy to get into town. It is no problem going to Leeds for a night out as well, as it is so close by.

The teaching staff at Bradford are very supportive and approachable. I built up a much closer relationship with them than at the university I started studying in, and was very glad that I switched courses. I still keep in touch with a number of them and come back to give career development talks to current students from time to time. The small number of people on the course means you get to know everyone really well. Since we've graduated we all keep in touch and everyone has done different things such as marketing, teaching and optometry.

It is really easy to fit in here and everyone is very welcoming. There are lots of international students and many societies to join so that you get to know many people. I became President of the Afro-Caribbean Society and we held regular events such as talent shows, comedy sketches, fashion shows, poetry reading, dancing and debates, which were so much fun. I really miss the social side of being a student and all the people I met now that I've graduated.



“ It is really easy to fit in here and everyone is very welcoming. There are lots of international students and many societies to join so that you get to know many people. ”

Career Opportunities

Pharmaceutical Management

This course will provide you with a mix of knowledge and skills ideal for a career in management positions within the pharmaceutical, biotechnological or other health-related industries. You will be more suited to management teams in these industries than graduates qualified only in either science or management.

The pharmaceutical, biotechnological and food industries in the UK are expanding, and recruit graduates from a variety of backgrounds. The mix of skills on the course means that you will have a unique contribution to make to management teams in these areas.

In addition, new concepts in the management of healthcare provision are being introduced in the NHS and in the private sector. This course will provide opportunities to enter health management both in hospitals and in the community. The inclusion of language study will allow you to take full advantage of the opportunities available throughout the European Union.

You should note, however, that the course does not lead to a professional qualification as a pharmacist.

As a graduate you could find yourself involved in clinical trials for a new medicine, assisting in product development at any stage of the research and development programme, working in drug regulation or marketing departments. A fast-expanding area is in the field of management of healthcare provision, both within and outside the National Health Service. Hospitals are developing management services devoted to the delivery of cost-effective healthcare services. Other management careers are possible within the Civil Service (for example, the Department of Health) or in the European Commission.

The majority of our recent graduates have taken jobs in the pharmaceutical industry in such areas as clinical trials, drug regulations, quality assurance, medical sales and marketing, pharmaceutical advertising and retail management. Some have obtained positions in private and NHS hospitals whilst others have pursued

careers based on their management skills in banking, insurance, stock trading and sales management. A few graduates have pursued further training at the Master's level in physiotherapy, education, human resource management, marketing and computing. Of our 2008 graduates, 100% were in employment or further study within six months of graduating.*

Students who have undertaken the industrial placement year in work have been particularly successful in gaining good jobs following graduation. A former student on the BSc in Pharmaceutical Management now runs a successful drug development and regulatory consultancy. In 2009 he received the prestigious 'Best Mentor' award presented by Yorkshire Forward for the work he has done with the Yorkshire Enterprise Fellowship scheme.

** These statistics are derived from annually published data based on those UK domiciled graduates who are available for employment or further study and whose destinations are known.*



Janet Ajayi

Pharmaceutical Management graduate

I had studied Biology, Chemistry and Psychology at A level, and I knew I wanted to study a science-related degree. I decided to come to Bradford because the School of Pharmacy has a great reputation and could offer me a fantastic experience and an excellent degree.

I decided to study Pharmaceutical Management because it offered a unique blend of both pharmacy and business that would allow me to pursue either a career in the pharmaceutical industry or a more traditional management role. With the course being a hybrid it has given me an added advantage over candidates who have only studied pharmaceutical science, for example, without the added management element. The fact that the University of Bradford is the only university to offer this course was also a unique selling point for me.

The course allows you to pursue either a biology route or chemistry route through your degree. I chose to follow the biology route as I felt that it was my strongest subject. The Bradford School of Pharmacy is a large and friendly department. If I ever needed any additional feedback or assistance, the lecturers and tutors would always go that extra mile to help and would always encourage me to reach my full potential. The University has a warm and welcoming atmosphere with friendly students, and plenty of computer labs and places to study.

I had a great time studying Pharmaceutical Management and took the opportunity to complete an optional 12-month industrial placement following the completion of my second year. I spent 12 months at the pharmaceutical company GlaxoSmithKline in the International Regulatory Affairs department, which gave me an insight into the world of drug registration. The placement equipped me with an experience, insight and knowledge no other student could have and I would definitely recommend that students grab the opportunity with both hands. Giving students the opportunity to have exposure to the industry is an excellent aspect of the degree.



Student life in Bradford is great! As Bradford is a small city most places are accessible on foot. Supermarkets, restaurants, clubs, cinemas and shopping centres are all a stone's throw away from campus and all of the halls of residence. One of the best things about Bradford is it is one of the cheapest student cities in the UK.

“ The University has a warm and welcoming atmosphere with friendly students, and plenty of computer labs and places to study. ”

The University of Bradford



With a history spanning the last century, the University of Bradford's values are built on firm foundations with the strong ethos of 'Making Knowledge Work™'

The University is constantly investing in the future of its students through world-class teaching and facilities.

Strong Roots

Back in 1966, when England were winning the World Cup, Bradford Institute of Technology became the University of Bradford and Harold Wilson, the long-serving British Prime Minister, became our first Chancellor. Over 40 years on and the University has moved from strength to strength.

1882: The University started out as Bradford Technical College. Bradford was the textile capital of the world, its renowned products reaching the four corners of the globe.

1966: The University was granted its Royal Charter which makes it one of the 'old' universities.

2005: In April 2005, Imran Khan was appointed as Chancellor of the University of Bradford succeeding Baroness Betty Lockwood on her retirement.

2006: The University celebrated its 40th anniversary and the opening of a grand new front to the campus: the vibrant Atrium in the Richmond Building, a magnificent student space.

Library and Computer Centre

The Library and Computer Centre are based together in the J B Priestley building, just a few minutes' walk from all the city campus buildings. The Library houses around 600,000 volumes, around 1,000 printed periodical titles and over 7,000 electronic journals. The library system is accessible online 365 days a year, 24 hours a day.

The Computer Centre offers a range of IT facilities and has been highly praised for the internet access it offers: the University of Bradford is one of the best in the UK at getting students online.

The University has wireless access to all its major buildings. There is an attractive laptop rental scheme for students, with plenty of cheap and useful software.

The University's high-speed Broadband network extends to every bedroom in University-owned halls of residence, giving students **free** access to the internet as well as campus and library services.

Accommodation

A place in University accommodation is available for all first-year students who need it. This will mean your own single study-bedroom, in a self-catering hall with internet connection. You can download further information about accommodation from www.bradford.ac.uk/accommodation

In subsequent years most students choose to live in furnished houses, flats or bedsits in the city. Student accommodation is cheaper, easier to find and more conveniently located in Bradford than in most other university cities. Many students live within five minutes of their lectures! For details of privately-rented accommodation contact the Unipol Accommodation Bureau (visit www.unipol.org.uk/bradford).

Facilities

Most departments are on the city campus, as is the sports centre, Students' Union, Theatre, Music Centre and Art Gallery, and student accommodation. The Students' Union runs over 80 clubs and societies, and has a shop on campus, and a print shop. The newly refurbished 'Unique: Fitness & Lifestyle' has a 25-metre swimming pool, climbing wall, and a new gym with the very latest in fitness equipment. You can enjoy café bars around the campus, offering a range of facilities including food, hot and cold drinks, pool tables, video games, and a big screen TV. The University has recently brought the full range of student support services together into one area in the Richmond Building, known as The Hub.

Friendly and familiar but with a thriving urban centre, Bradford is the city that has it all. The cosmopolitan mix, booming social scene and host of thriving cultural venues create a vibrant modern atmosphere that sits perfectly alongside the imposing architecture of the nineteenth century. Bradford is set amongst some of the most beautiful countryside in England. At the same time it is one of the most affordable places to live. Bradford lies right in the middle of the country, with easy links by road, rail and air north to Scotland, west to Manchester and Liverpool, east to Leeds and York, and south to London.

The University campus is situated in the heart of the city's 'west end' – with many new pubs, clubs and restaurants within a few minutes' walk from the halls of residence. Bradford can also offer a thriving cultural scene, including the National Media Museum, with its huge IMAX screen, as well as galleries, theatres and museums of art, crafts and technology. Further information of all that is on offer in Bradford can be found at www.visitbradford.com and at www.bradford.ac.uk/bradford

Eating Out

As every student will soon discover Bradford has earned the right to be famous for its curries. There are over 20 curry houses within five minutes' walk of the campus, where you can find a good meal for around £5. There are many other inexpensive restaurants, shops and supermarkets nearby, as well as the excellent value markets, specialist shops and chain stores in the city centre.

Sport

Local sporting clubs are always keen to welcome student members, not forgetting the University's own range of sporting teams and activities. If you enjoy watching rather than participating, there's football at Bradford City and Super League rugby with Bradford Bulls.

Spectacular Surroundings

Bradford is surrounded by some of the most spectacular and picturesque countryside anywhere in the country. The Pennines, Yorkshire Moors, Yorkshire Dales, Lake District and Derbyshire Peak District are all within easy travelling distance.

You can take advantage of the host of outdoor sporting activities available in the area or just enjoy the peace and quiet.



Yorkshire Dales and Alhambra Theatre

The contents of this publication are correct at the time of printing. The University reserves the right to alter or withdraw courses, services and facilities as described in this booklet without notice and to amend Ordinances, Regulations, fees and charges at any time. Students should enquire as to the up-to-date position when applying for their course of study. Admittance to the University is subject to the requirement that the student complies with the University's admissions procedures and observes the Charter and Statutes and the Ordinances and Regulations of the University.

More detailed maps of the University campus are available on our website at: www.bradford.ac.uk/maps

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Produced by Marketing and Communications, University of Bradford
Print Production: Inprint and Design, University of Bradford*



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