

SPJ
GLOBAL

S P Jain
School of Global
Management

DUBAI • MUMBAI • SINGAPORE • SYDNEY



BACHELOR OF DATA SCIENCE

INTRODUCING S P JAIN GLOBAL'S BACHELOR OF DATA SCIENCE (BDS)

In an increasingly digital world, Data Science plays a very big role in driving decisions, innovation, productivity and success. Data Scientists around the world have changed the way big data is analysed and the way organisations identify trends and challenges as well as new opportunities. This means that big data has the potential to bring about enormous social and economic benefits. A strategic use of big data will form the key basis of competition, underpinning new waves of productivity, growth, innovation and consumer surplus.

S P Jain Global's Bachelor of Data Science (BDS) is a 3-year course designed to prepare graduates who can conduct data-driven investigations and visual & advanced analytics by acquiring and managing data of all types. Through this course, graduates will develop an in-depth understanding of data science and the techniques for analysis of quantitative and qualitative data to arrive at solutions. They will be able to identify patterns in order to predict trends by analysing data from various sectors such as manufacturing, banking and finance, retail and healthcare.

The program is currently offered at our campuses in Mumbai (via DSP)* and Sydney.

* Students who wish to begin their studies in Mumbai can enrol in the Data Science Program (DSP) and transition to Year 2 of the S P Jain Global BDS degree in Sydney. The DSP is not accredited under the Australian Qualifications Framework.



KEY HIGHLIGHTS



3-year full-time program for grade XII applicants



Choose to study Year 1 in Mumbai (via DSP*), followed by Years 2 & 3 in Sydney, or complete all three years in Sydney



S P Jain Global is accredited by the Data Science Council of America (DASCA)



Acquire hands-on technical experience with capstone projects, workshops, and internships



Upon graduation, you may be able to live and work in Australia by applying for a Post-Study Work Visa

*Students who wish to begin their studies in Mumbai can enrol in the Data Science Program (DSP) and transition to Year 2 of the S P Jain Global BDS degree in Sydney. The DSP is not accredited under the Australian Qualifications Framework.

As an international student, you may be able to continue to live and work in Australia temporarily, following the completion of your BDS at S P Jain Global. While graduating students can apply for a post-study work visa, it is not a guaranteed outcome of the program.

For eligibility and more information, please visit: immi.homeaffairs.gov.au

GRADUATE ATTRIBUTES

All the S P Jain Global courses are designed so that our graduates display the much needed and holistic attributes including:

- Knowledge of Business, Management and Emerging Technologies
- Research and Business Intelligence
- Problem Solving and Decision Making
- Creativity and Innovation
- Intercultural Competence/Communication
- Teamwork
- Global Citizenship/Ethics (Collaborate, Negotiate and Resolve Conflicts)



COURSE LEARNING OUTCOMES

On successful completion of the course, you graduate with an Australian undergraduate degree and the skills, knowledge and their application that validate the following learning outcomes:

Knowledge of Data Science and Associated Analytics	Become equipped with an in-depth understanding of data science and the techniques for analysis of quantitative and qualitative data to respond to queries and tasks.
Problem Solving and Decision Making	Apply data modelling methods and interpret descriptive and referential statistics for various quantitative data.
Creativity and Innovation	Undertake problem solving, decision making and critical thinking skills to evaluate and arrive at clear, reliable, well-structured solutions from the analysis of data and discuss the implications for the stakeholder.
Teamwork	Collaborate effectively with others to design programs and apply various data analysis methodologies to data sets to prepare output and solutions.
Intercultural Competence & Communication	Understand and recognise diversity to communicate effectively in international and cross-cultural contexts. Prepare technical report on methodology, analysis and solutions in writing and present ideas and key issues in a clear and convincing manner.
Global Citizenship & Ethics (Collaborate, Negotiate & Resolve Conflicts)	Explain the ethical and privacy implications of managing (big) data. Apply theoretical and technical knowledge and skills to provide socially and ethically responsible data solutions with accountability. Demonstrate the ability to critically assess the broader impact of data science on society and the principles of fairness, accountability and transparency and shared ethical values. Collaborate responsibly with others to produce deliverables that are appropriate for audiences of different socio-economic groups and for different businesses.



CURRICULUM

The academic track of the BDS program is made of a blend of core and advanced specialist subjects. Our curriculum is built on the principle that subjects get more and more specialised as you progress through the program.

The subjects undertaken in the first year of the program build a strong, general foundation in data science, math and computer science. In Year 2, mathematical and analytical topics are explored in considerable depth, and students are exposed to topics such as Data Integration, Calculus, Data Structures, Programming, Machine Learning, and Matrix Algebra and Applications. Advanced learning continues in Year 2 through topics like Simulation Modelling, Data Mining, Social Web Analytics, and Big Data Processing Techniques and Platforms.

In the final year, students also undertake applied analytics capstone projects that give them practical, hands-on experience in identifying and interpreting actionable information from raw data, and using them to make informed and mathematically valid decisions.

INTERNSHIP

Although internships are voluntary, students are always encouraged to make good use of their summer break to gain real-time exposure to global businesses. Internships present the opportunity to build a portfolio of international work experience, develop important professional attributes, put classroom learning to practice, and transform yourself into a data specialist.

ASSESSMENT

SP Jain Global uses a system of continuous student evaluation, rather than a single end-of-semester final examination. The assessment types for the BDS course include organisational case studies, simulation exercises, prototype development and exhibition, reflective assignment reports, programming and laboratory exercise, tutorial exercises, the use of analytical software in the classroom, simulations, mid-term exams, final exams, business decision making reports, and industry projects and reports.

To learn more about our assessment methods, please refer to the [Student Handbook on our website](#).

BACHELOR OF DATA SCIENCE COURSE CURRICULUM

NEW UNIT CODE	UPDATED UNITS	CREDITS	PRE-REQUISITES OR CO-REQUISITES
SEMESTER 1			
BDS MAT 111	Discrete Mathematics	3	NIL
BDS MAT 110	Introduction to Statistics and Probability	3	NIL
BDS CSC 101	Introduction to Computer Programming	3	NIL
BDS DSC 101	Introduction to Database	3	NIL
BDS BUS 101	Foundation Skill - 1 : Personal & Career Foundation	1	NIL
	Total Semester 1 Credits	13	
SEMESTER 2			
BDS MAT 103	Linear Algebra	3	NIL
BDS MAT 104	Calculus	3	NIL
BDS DSC 102	Introduction to Data Science	3	Introduction to Programming
BDS QTT 101	Statistical Data Analysis	3	Introduction to Statistics and Probability
BDS LIB 101	Foundation Skill - 2 Ethics & Moral Reasoning	1	Foundation Skills 1: Personal & Career Foundations
	Total Semester 2 Credits	13	
SEMESTER 3			
BDS MAT 205	Advanced Calculus	3	Calculus
BDS MAT 206	Algorithms and Data Structures	3	Introduction to Computer Programming
BDS DSC 203	Data Integration and Warehousing	3	Introduction to Databases
BDS DSC 205	Operating Systems & Networking	3	NIL
BDS ORG 201	Employability and Practitioner Skills Series 1: Emotional Intelligence	1	Foundation Skills 1 & Foundation Skills 2
	Total Semester 3 Credits	13	

SEMESTER 4			
BDS MAT 208	Advanced Linear Algebra and Applications	3	Linear Algebra
BDS CSC 204	Web Applications Development (Java Track) & Analytics	3	Introduction to Computer Programming
BDS MKT 202	Cloud Computing	3	Operating Systems & Networking
BDS CSC 203	Machine Learning	3	Introduction to Data Science
BDS HRM 201	Employability and Practitioner Skills Series 2: Leadership, Teamwork, Global Dexterity	1	Employability and Practitioner Skills Series 1: Emotional Intelligence
	Total Semester 4 Credits	13	
SEMESTER 5			
BDS QTT 302	Simulation Modelling with Python	3	Introduction to Computer Programming
BDS DSC 310	Deep Learning	3	Machine Learning
BDS DSC 311	NLP, Language Models & Analytics	3	Machine Learning
BDS PRO 301	Data Science Capstone Project I	3	PR: Introduction to computer programming, Introduction to Data science and completed any 8 subjects in addition to these specific subjects
BDS COM 301	Employability and Practitioner Skills Series 3: Communicating Effectively	1	Employability and Practitioner Skills Series 2: Leadership, Teamwork, Global Dexterity
	Total Semester 5 Credits	13	
SEMESTER 6			
BDS DSC 312	Computer Vision with Multi-modal models & Analytics	3	Deep Learning
BDS DSC 313	Generative AI and Applications in Data Science	3	Deep Learning
BDS DSC 309	Big Data Processing Techniques and Platforms	3	Machine Learning
BDS PRO 302	BDS Data Science Capstone Project II	3	Data Science Capstone Project I
BDS BUS 302	Employability Skills - 4 (Innovation, Creativity, Agility)	1	Employability and Practitioner Skills Series 3: Communicating Effectively
	Total Semester 6 Credits	13	
	Total Course Credits	78	

CAREERS

The program equips students to fill the need for data expertise in practically every field imaginable – from IT, Consulting and BFSI to Healthcare, Education, Retail, and Media. Data Science graduates will be well positioned for careers in data mining, data modelling, data architecture, extraction, transformation, loading development and business intelligence development, and for roles like Data Scientists, Analysts, Developers, and Consultants.



ADMISSION PROCESS

1

ELIGIBILITY

Applicants must have completed high school/junior college/IB Diploma or an equivalent form of higher education (with a total of 12 years of education) with a minimum accepted score of one of the following:

- ATAR score of 70
- CBSE, ISC or HSC score of 60%
- IB score of 24
- An international qualification that is deemed to be equivalent to any of the above through official qualification recognition register or mapping of equivalence by the School.
- Completion of an accredited vocational education and training (VET) qualification at Diploma or Advanced Diploma level completed at an ASQA registered training organisation (RTO); or
- In lieu of above, completion of minimum 11 years of schooling for the nine Commonwealth of International States (CIS) countries subject to a minimum CGPA score of 4.00 out of 5.00 issued by the National Board in these countries

Students may apply for the next academic year while still finishing their 12th year of high school.

ENGLISH LANGUAGE ELIGIBILITY REQUIREMENTS

- Applicants who have not completed their most recent education qualifications in English are required to take any of the following recognised formal English language test and obtain currently valid minimum scores as below:
 - IELTS score of 6
 - TOEFL iBT score of 60 overall
 - PTE score of 50
- International applicants (including those who have completed their most recent education qualifications in English) who are undertaking study at our Sydney campus may need to meet the English Language test requirements detailed by the Australian government to obtain their student visas. For more information, please visit: <https://bit.ly/3dPD9UO>

2

APPLICATION

The application can be submitted online at no cost.

It is not necessary to have Year 12 results in hand at the time of application. In case the Year 12 results are not in hand, selected students will be offered conditional admission to the program.

3

ENTRANCE TEST

Applicants must appear for SAT / ACT / SPJET (S P Jain Entrance Test) / JEE (Main) and achieve an acceptable score as listed in the [Undergraduate Admission and Selection Policy](#).

In addition, applicants must meet the minimum requirements of 600 in the Math section of the SAT or 75% in the Numeracy section of the SPJET.

4

EVALUATION

Finally, applicants are also required to write two essays and satisfactorily complete a personal interview at one of the School's campuses or online with a member of the School's academic staff. This interview is designed to assess communication skills, subject knowledge, and analytical skills. The admissions team shortlists applications based on past academic performance, entrance test scores, English language proficiency, subject knowledge, analytical skills, and other achievements.

Shortlisted applicants are required to pay an evaluation fee of USD 55 before requesting for an evaluation date.

5

RESULTS

Applicants are emailed an admission decision within 14 days after the evaluation interviews.

To view the annual Academic Calendars with details about the term and holiday breaks, please visit: spjain.org/bhgsw

For more details about the admission process, please visit: spjain.org/bxgag

To view our detailed Admissions Policy, please visit: spjain.org/gdsbu

FACULTY

Faculty members are the heart of any academic program. They create the conditions that bring out the best in students. S P Jain Global's faculty is selected on the basis of proven success and expertise. They are among the best in their respective fields - a multinational collective of recognised scholars and experts who bring a wealth of research, teaching and industry experience to the classroom.

ABHIJIT DASGUPTA

Director – Bachelor of Data Science
PhD in Customer Experience Management,
Dr RML Awadh University, India
Area of Specialisation: Information Technology

ADITYA NARVEKAR

Assistant Professor and Deputy Director,
Students Engagement and Enhancement –
Bachelor of Data Science DBA,
Machine Learning, SP Jain School of Global
Management, Australia
Area of Specialisation: Information Technology

AK CHAKRABORTY

Adjunct Faculty
PhD, Indian Institute of Science, India
Areas of Specialisation: Statistics
and Statistical Machine Learning

ANISH ROY CHOWDHURY

Adjunct Faculty
PhD, Indian Institute of Science, India
Area of Specialisation: Information Technology

ARUN CHATTERJEE

Adjunct Faculty
PhD, Indian Institute of Management - Bangalore, India
Area of Specialisation: Marketing Analytics

ASHOKA CHOUDHURY

Adjunct Faculty
MPhil in Mathematics, School of Mathematical Sciences,
Sambalpur University, India
Area of Specialisation: Mathematics

BIJAL OZA

Director (Global) – Counseling and Coaching Center,
PhD in International Psychology with a special focus
on Organisations and Systems – The Chicago School of
Professional Psychology, USA
Area of Specialisation: Management

CHRISTOPHER ABRAHAM

Professor and Head of Campus (Dubai)
PhD, Business Administration, Charisma University, UK
Areas of Specialisation: HR and Organisation Behavior

DEBASHIS GUHA

Associate Professor and Director – Master of Artificial
Intelligence in Business
PhD, Columbia University, USA
Areas of Specialisation: Machine Intelligence and Deep
Learning

FIROZ ANWAR

Adjunct Faculty
PhD, University of New South Wales, Australia
Area of Specialisation: Information Technology

AOS ALAA AL JUBOORI

Professor - Data Science and Artificial Intelligence,
Deputy Director - MAIB
PhD, Multimedia University (MMU), Malaysia
Areas of Specialisation: Data Science and Artificial
Intelligence

JOHNNY VALBUENA SOLER

Adjunct Faculty
Doctor of Philosophy, The Australian National
University (ANU), Australia
Areas of Specialisation: Mathematics and Information
Technology

JOSEPH KONSTAN

Adjunct Faculty
PhD in Computer Science, University of California, USA
Areas of Specialisation: Recommender Systems and
HCI

KOILAKUNTLA MADDULETY

Professor, Deputy Director – Doctor of Business
Administration
PhD in Quality Management System, Shivaji University,
India
Areas of Specialisation: Statistics and Operations Research

LAWRENCE POHLMAN

Adjunct Faculty
PhD in Finance, Columbia Business School, USA
Area of Specialisation: Financial Technology

MONICA CHAUDHARY

Associate Professor – Marketing & Acting Head – Global
MBA & Master of Global Business
PhD in Management (Marketing), Jaypee Institute of
Information Technology, India
Area of Specialisation: Marketing

MONICA GALLANT

Associate Professor – Accounting,
Assistant Dean – Executive MBA
(Dubai On-campus and Middle East Online)
Doctorate of Education, University of Southern
Queensland, Australia
Areas of Specialisation: Accounting and Finance

NARASIMHA K

Adjunct Faculty
MTech in Computer Science, Indian Institute of Technology
- Bombay, India
Areas of Specialisation: DevOps, Data Structures and
Algorithm

NAVNIT BELUR

Adjunct Faculty
MS in Computer Science (Specialisation
in Machine Learning), Georgia Institute of
Technology, USA
Area of Specialisation: IT/E-Business

NITIN PATWA

Associate Professor and Director – Simulation,
Deputy Director of Undergraduate Programs
(Dubai)
Doctor of Business Administration,
SP Jain School of Global Management, Australia
Areas of Specialisation: Probability and Statistics

NITIN SHARMA

Adjunct Faculty
MSc in Information Technology, Annamalai
University, India
Areas of Specialisation: Cloud and Big Data

POK TAK ARTHUR TSANG

Adjunct Faculty
Master of Information Systems, Deakin University
Areas of Specialisation: Finance and Information
Technology

RICHARD COLLER

Assistant Professor – General Management
Master of Business Administration in Marketing
Strategy, Australian Institute of Business, Australia
Areas of Specialisation: Marketing and Strategy

SADIA RIAZ

Associate Professor (IT and Research Methods)
PhD (Information Technology),
Universiti Teknologi, PETRONAS, Malaysia
Areas of Specialisation: Information Technology
and Research Methods

SUCHISMITA DAS

Assistant Professor
PhD, Indian Institute of Science Education and
Research (IISER), India
Areas of Specialisation: Mathematics and Statistics

SUNIL D LAKDAWALA

Adjunct Faculty
PhD, Yale University, USA
Areas of Specialisation: Data Warehousing and
Data Mining

SWAGOTO CHATTERJEE

Adjunct Faculty
PhD in Marketing, Indian Institute of Management -
Bangalore, India
Areas of Specialisation: Marketing Analytics and
Business Analytics

UMESH KOTHARI

Adjunct Faculty
Masters of Management,
Willamette University, USA
Area of Specialisation: Marketing





S P Jain School of Global Management is a leading Australian business school with campuses in Dubai, Mumbai, Singapore, and Sydney. We relentlessly strive to reimagine business education and offer innovative courses in world-class cities. Our efforts have been recognised by highly regarded global rankings that include:

BLOOMBERG BUSINESSWEEK

Top 10 in Asia Pacific
(Best B-schools,
2023, 2024, and 2025)

QS

#16 in the Middle East & Africa
(Full-time MBA) & #68 in the world
(Master's degree - International
Trade) (2025)

FORBES

Top 15 in the world
(Best International 1-year MBAs,
2019–21)

THE ECONOMIST

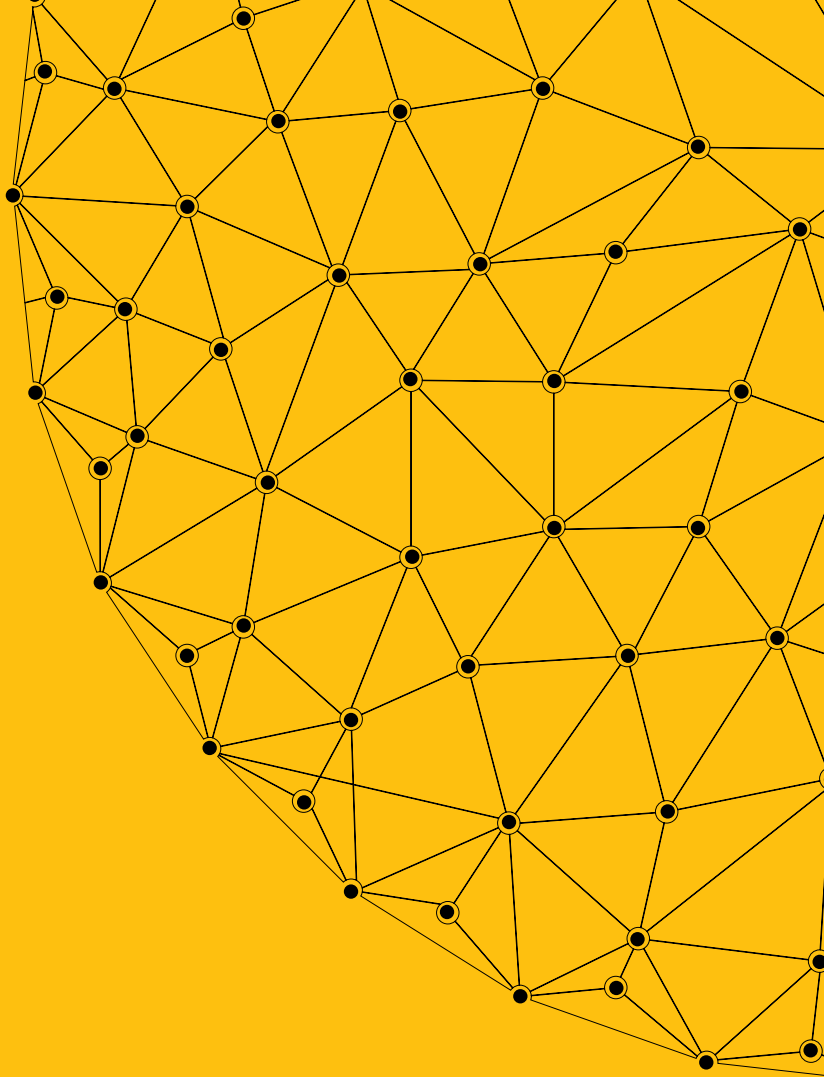
Top 100 in the world
(Full-time MBA Rankings,
2015)

TIMES HIGHER EDUCATION – WALL STREET JOURNAL

Top 5 in the world
(Top International 1-year
MBAs, 2018)

FINANCIAL TIMES

Top 100 in the world
(Full-time Global MBA Rankings,
2011 & 2012)



SYDNEY

S P Jain School of Global Management
15 Carter Street, Lidcombe
NSW, 2141, Australia
+61 2 89706800 | australia@spjain.org
WWW.SPJAIN.EDU.AU

DUBAI

S P Jain School of Global Management,
Block 5, Dubai International Academic City,
P. O. Box 502345, Dubai, UAE
+971 56 416 5194 | +971 50 226 4688
ug.dubai@spjain.org
WWW.SPJAIN.AE

MUMBAI

SP Jain School of Global Management
Lodha VIOS Tower, 5th Floor
Wadala Truck Terminal, New Cuffe Parade
Mumbai- 400 037
Tel: +91 22 6188 7600 | ugindia@spjain.org
WWW.SPJAIN.ORG

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Permitted by the Knowledge and Human Development Authority. The academic qualifications granted by this institution and certified by KHDA shall be recognised in the Emirate of Dubai by all public and private entities for all purposes.