

# Hainan

## Progress Update

Martin Benning

## What is the Hainan Joint Educational Institution (JEI)?

- Collection of three (maybe four) transnational undergraduate programmes
- Jointly developed and delivered by QMUL and Beijing University of Post and Telecommunications (BUPT)
- To take place in Hainan, China
- Application was approved by Chinese Ministry of education
- Set to start in September 2022
- Goal is to attract 90 students in first year, 100 per year subsequently, i.e. student population of 1200



The three (four) programmes are

- Digital Media Technology (Digital Music & Sound)
  - QMUL development lead by EECS
- Intelligent Biomedical Engineering
  - QMUL development lead by SBBS
- Information and Computational Science
  - QMUL development lead by SMS
- (Intelligent Science and Technology)



# Information and Computational Science (ICS)

Development by



Michael Chai  
(EECS)



Henri Huijberts  
(SEMS)



Jesús Requena  
Carrión  
(EECS)



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# Information and Computational Science (ICS)

Current diet:

Year 1

<b>Information and Computational Science</b>						
Sem	Module Name	University	School	FHEQ Level	QM credit	Chinese credit
1	Personal Development Plan & Entrepreneurial Skills 1	QMUL	Faculty	3	5	0.4
1	Technical English Language and Study Skills 1	QMUL	Faculty	3	15	4
1	Higher Algebra I	BUPT		3	15	3
1	Mathematical Analysis 1	BUPT		3	15	3
1	Computer Fundamentals and Programming	BUPT		3	15	3.5
2	Technical English Language and Study Skills 2	QMUL	Faculty	3	15	4
2	Mathematical Analysis 2	BUPT		3	15	3
2	Higher Algebra II	BUPT		3	15	3
2	Introduction to Data Science Programming	QMUL	SPCS	4	15	3
					125	



# Information and Computational Science (ICS)

Current diet:

Year 2

3	Personal Development Plan & Entrepreneurial Skills 2	QMUL	Faculty	4	5	0.3
3	Probability Theory and Mathematical Statistics	BUPT		4	15	4
3	Algorithms and Data Structures	BUPT		4	15	3
3	Ordinary Differential Equations	BUPT		4	15	3
3	Data Analysis and Data Solutions	QMUL	SPCS	5	15	4
4	Introduction to Artificial Intelligence	QMUL	EECS	4	15	3
4	Numerical analysis	BUPT		4	15	4
4	Computer Networks	QMUL	EECS	4	15	3
4	Mathematical Modelling	BUPT		4	15	2
4	Combinatorial Mathematics/Matrix Theory/Math Foundations of DS	BUPT		4	15	2
					140	



# Information and Computational Science (ICS)

Current diet:

Year 3

5	Personal Development Plan & Entrepreneurial Skills 3	QMUL	Faculty	5	5	0.3
5	Machine Learning with Python	QMUL	SMS	5	15	3
5	Fundamentals of DSP	QMUL	EECS	5	15	3
5	Database systems	QMUL	EECS	5	15	3
5	Linear Programming and Games	QMUL	SMS	5	15	3
6	Blockchain	BUPT		5	15	2
6	Complex networks	QMUL	SMS	5	15	3
6	Deep Learning with Neural networks	QMUL	SMS	6	15	3
6	Internet Finance/Big Data Modelling/Data Mining/NoSQL Database Techniques	BUPT		6	15	2
6	Bayesian Statistics	QMUL	SMS	6	15	3
					140	

# Information and Computational Science (ICS)

Current diet:

Year 4

7	Algorithmic Graph Theory	QMUL	SMS	6	15	3
7	Computability, Complexity and Algorithms	QMUL	EECS	6	15	3
7	Information Theory/Mobile Internet/Mobile Comms/Network Storage Tech	BUPT		6	15	3
7	Project	QMUL & BUPT		6	30	10
7	Engineering Environment (Information and Computational Science)	BUPT		6	15	10
7	Chinese Compulsory Topics	BUPT		6	0	10
					90	

Total credits: 125 in year 1 + 370 in year 2 (140), 3 (140), 4 (90)



## Information and Computational Science (ICS)

### Next steps:

- Finishing paperwork for Thursday, June 16, for external advisor scrutiny
- Paperwork (Programme proposal form, Programme specification, Module proposal forms etc.) submission to Taught Programmes Board (TPC) by July 6
- Next TPC meeting on July 27; programme approval hopefully by then
- Hiring of QMUL staff for the Year 1 modules

Further questions and comments?