

**Programme Guide for Postgraduate Taught Programmes  
Mathematical and Computing Sciences – Dubai Campus  
Academic Year 202223**

**[Academic Year Calendar for 202223](#)**

*[Students are encouraged to check the Academic Calendar and be familiarise with the dates]*

# Post Graduate Taught Programme Guide- ONLY for January Intake Students

## List of Programmes

.....	1
MSc / Postgraduate Diploma Artificial Intelligence.....	3
Part Time .....	3
New Students .....	3
Continuing Students .....	3
MSc / Postgraduate Diploma Data Science .....	5
New Students .....	5
Continuing Students .....	5
MSc / Postgraduate Diploma Network Security.....	7
New Students .....	7
Continuing Students .....	7
MSc / Postgraduate Diploma Software Engineering .....	9
New Students .....	9
Continuing Students .....	9
MSc / Postgraduate Diploma Information Technology (Software Systems).....	11
New Students .....	11
Continuing Students .....	11
MSc / Postgraduate Diploma Information Technology (Business).....	13
New Students .....	13
Continuing Students .....	13

## Post Graduate Taught Programme Guide- ONLY for January Intake Students

### MSc / Postgraduate Diploma Artificial Intelligence

<b>Programme Name</b>	: MSc / Postgraduate Diploma Artificial Intelligence					
<b>Programme Code</b>	: F2Z7-ARI					
<b>Mode of Study</b>	: Part Time					
Key Contacts						
Designation		Name			Contact Email	
<b>Programme Director</b>		Dr Neamat El Gayar			n.elgayar@hw.ac.uk	
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates	
New Students						
Stage 1- First Year						
January Semester - Register 2 or 3 Courses						
F21AA	Applied Text Analytics	Optional	1	January Semester	Jan 2023 To May 2023	
F21AD	Advanced Interaction Design	Optional	1			
F21AO	Applied Development and Operations (DevOps)	Optional	1			
F21AS	Advanced Software Engineering	Optional	1			
F21BD	Big Data Management	Optional	1			
F21GP	Computer Games Programming	Optional	1			
<b>Note:</b> You will need to enrol for September Semester courses ONLY in the next Academic Year once enrolment and registration are open. You will be notified when the portal will be open for next year.						
September Semester – Register 2 or 3 Courses						
F21DL	Data Mining & Machine Learning	Mandatory	1	September Semester	Sept 2023 to Dec 2023	
F21BC	Biologically inspired Computation	Mandatory	1			
F21GA	3D Graphics and Animation	Optional	1			
F21RO	Intelligent Robotics	Optional	1			
Continuing Students						
Stage 1 – Second Year						
January Semester - Register F21RP and 1 Optional Course [Students should be completing 8 taught courses by this semester]						
F21RP	Research Methods and Project Planning	Mandatory	2	January Semester	Jan 2023 To May 2023	
F21AA	Applied Text Analytics	Optional	2			
F21AD	Advanced Interaction Design	Optional	2			
F21AO	Applied Development and Operations (DevOps)	Optional	2			
F21AS	Advanced Software Engineering	Optional	2			
F21BD	Big Data Management	Optional	2			
F21GP	Computer Games Programming	Optional	2			
<b>Note:</b> You will need to enrol for September Semester courses ONLY in the next Academic Year once enrolment and registration are open. You will be notified when the portal will be open for next year.						
May Semester - 1 Mandatory Course [Applicable to ONLY MSc Students] (Register on successful completion of 8 taught courses)						

## Post Graduate Taught Programme Guide- ONLY for January Intake Students

F21MP	MSc Project & Dissertation	Mandatory	2	May Semester	May 2023 to Aug 2023
-------	----------------------------	-----------	---	--------------	----------------------

**Note:**

- Part time students should register F21RP **ONLY** at the second Year of studies. Students will be eligible to enrol to this course only on successful completion of 7 courses or being registered as the 8<sup>th</sup> course at their final taught semester.
- Part time students are encouraged to meet their Personal Tutor or Programme Director if they wish to choose more than 2 courses in a semester.
- Students are encouraged to take optional courses before the mandatory courses.
- Students are expected to complete 5 taught courses by the end of September Semester in the first year to meet the F21RP eligibility requirement in the second year.

## Post Graduate Taught Programme Guide- ONLY for January Intake Students

### MSc / Postgraduate Diploma Data Science

<b>Programme Name</b>		: MSc / Postgraduate Diploma Data Science			
<b>Programme Code</b>		: F2D1-DSC			
<b>Mode of Study</b>		: Part Time			
Key Contacts					
Designation		Name		Contact Email	
Programme Director		Dr Hind Zantout		h.zantout@hw.ac.uk	
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
New Students					
Stage 1 – First Year					
January Semester - Register 2 or 3 Courses					
F21BD	Big Data Management	Mandatory	1	January Semester	Jan 2023 To May 2023
F21DV	Data Visualisation and Analytics	Mandatory	1		
F21AO	Applied Development and Operations	Optional	1		
F21AS	Advanced Software Engineering	Optional	1		
F21AA	Applied Text Analytics	Optional	1		
F21DE	Digital and Knowledge Economy	Optional	1		
<b>Note:</b> You will need to enrol for September Semester courses ONLY in the next Academic Year once enrolment and registration are open. You will be notified when the portal will be open for next year.					
September Semester – Register 2 or 3 Courses					
F21DL	Data Mining & Machine Learning	Mandatory	1	September Semester	Sept 2023 to Dec 2023
F21SA	Statistical Modelling and Analysis	Mandatory	1		
F21BC	Biologically Inspired Computation	Optional	1		
F21CN	Computer Network Security	Optional	1		
F21SC	Industrial Programming	Optional	1		
Continuing Students					
Stage 1 – Second Year					
January Semester - Register F21RP and 1 Optional Course [Students should be completing 8 taught courses by this semester]					
F21RP	Research Methods and Project Planning	Mandatory	2	January Semester	Jan 2023 To May 2023
F21BD	Big Data Management	Mandatory	2		
F21DV	Data Visualisation and Analytics	Mandatory	2		
F21AO	Applied Development and Operations	Optional	2		
F21AS	Advanced Software Engineering	Optional	2		
F21AA	Applied Text Analytics	Optional	2		
F21DE	Digital and Knowledge Economy	Optional	2		
<b>Note:</b> You will need to enrol for September Semester courses ONLY in the next Academic Year once enrolment and registration are open. You will be notified when the portal will be open for next year.					
May Semester - 1 Mandatory Course [Applicable to ONLY MSc Students] (Register on successful completion of 8 taught courses)					

## Post Graduate Taught Programme Guide- ONLY for January Intake Students

F21MP	MSc Project & Dissertation	Mandatory	2	May Semester	Jan 2023 to Aug 2023
-------	----------------------------	-----------	---	--------------	----------------------

**Note:**

- Part time students should register F21RP **ONLY** at the second Year of studies. Students will be eligible to enrol to this course only on successful completion of 7 courses or being registered as the 8<sup>th</sup> course at their final taught semester.
- Part time students are encouraged to meet their Personal Tutor or Programme Director if they wish to choose more than 2 courses in a semester.
- Students are encouraged to take optional courses before the mandatory courses.
- Students are expected to complete 5 taught courses by the end of September Semester in the first year to meet the F21RP eligibility requirement in the second year.

## Post Graduate Taught Programme Guide- ONLY for January Intake Students

### MSc / Postgraduate Diploma Network Security

<b>Programme Name</b>		: MSc / Postgraduate Diploma Network Security			
<b>Programme Code</b>		: F2D1-DSC			
<b>Mode of Study</b>		: Part Time			
Key Contacts					
Designation		Name		Contact Email	
Programme Director		Dr. Hani Ragab Hassen		<a href="mailto:h.ragabhassen@hw.ac.uk">h.ragabhassen@hw.ac.uk</a>	
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
<b>New Students</b>					
<b>Stage 1 – First Year</b>					
<b>January Semester - Register 2 or 3 Courses</b>					
F21AN	Advanced Network Security	Mandatory	1	January Semester	Jan 2023 To May 2023
F21FO	Digital Forensics	Mandatory	1		
F21AO	Applied Development and Operations (DevOps)	Optional	1		
F21AS	Advanced Software Engineering	Optional	1		
F21BD	Big Data Management	Optional	1		
C11PA	Project Management	Optional	1		
<b>September Semester – Register 2 or 3 Courses</b>					
F21CN	Computer Network Security	Mandatory	1	September Semester	Sept 2023 to Dec 2023
F21DF	Databases and Information Systems	Optional	1		
F21DL	Data Mining and Machine Learning	Optional	1		
F21RS	Rigorous Methods for Software Engineering	Optional	1		
F21SC	Industrial Programming	Optional	1		
F21SF	Software Engineering Foundations	Optional	1		
F29DC	Data Communications and Networking	Optional	1		
F21SP	System Programming	Optional	1		
<b>Continuing Students</b>					
<b>Stage 1 – Second Year</b>					
<b>January Semester - Register F21RP and 1 Optional Course</b>					
F21AN	Advanced Network Security	Mandatory	2	January Semester	Jan 2023 To May 2023
F21FO	Digital Forensics	Mandatory	2		
F21RP	Research Methods & Project Planning**	Mandatory	2		
F21AO	Applied Development and Operations (DevOps)	Optional	2		
F21AS	Advanced Software Engineering	Optional	2		
F21BD	Big Data Management	Optional	2		
C11PA	Project Management	Optional	2		
<b>May Semester - 1 Mandatory Course [Applicable to ONLY MSc Students] (Register on successful completion of 8 taught courses)</b>					
F21MP	MSc Project & Dissertation	Mandatory	2	May Semester	May 2023 to August 2023

## Post Graduate Taught Programme Guide- ONLY for January Intake Students

### **Note:**

- Part time students should register F21RP **ONLY** at the second Year of studies. Students will be eligible to enrol to this course only on successful completion of 7 courses or being registered as the 8<sup>th</sup> course at their final taught semester.
- Part time students are encouraged to meet their Personal Tutor or Programme Director if they wish to choose more than 2 courses in a semester.
- Students are encouraged to take optional courses before the mandatory courses.
- Students are expected to complete 5 taught courses by the end of September Semester in the first year to meet the F21RP eligibility requirement in the second year.



## Post Graduate Taught Programme Guide- ONLY for January Intake Students

### MSc / Postgraduate Diploma Software Engineering

<b>Programme Name</b>		: MSc / Postgraduate Diploma Software Engineering			
<b>Programme Code</b>		: F2S7-SOE			
<b>Mode of Study</b>		: Part Time			
Key Contacts					
Designation		Name		Contact Email	
Programme Director		Dr. Abrar Ullah		<a href="mailto:a.ullah@hw.ac.uk">a.ullah@hw.ac.uk</a>	
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
<b>New Students</b>					
<b>Stage 1 – First Year</b>					
<b>January Semester - Register 2 or 3 Courses</b>					
F21AS	Advanced Software Engineering	Mandatory	1	January Semester	Jan 2023 To May 2023
F21BD	Big Data Management	Optional	1		
F21AD	Advanced Interaction Design	Optional	1		
F21AO	Applied Development and Operations (DevOps)	Optional	1		
F21GP	Computer Games Programming	Optional	1		
F21AN	Advanced Network Security	Optional	1		
<b>September Semester – Register 2 or 3 Courses</b>					
F21RS	Rigorous Methods for Software Engineering	Mandatory	1	September Semester	Sept 2023 to Dec 2023
F21SC	Industrial Programming	Mandatory	1		
F21BC	Biologically Inspired Computation	Optional	1		
F21GA	3D Graphics and Animation	Optional	1		
F21DL	Data Mining and Machine Learning	Optional	1		
F21SP	Systems Programming	Optional	1		
<b>Continuing Students</b>					
<b>Stage 1 – Second Year</b>					
<b>January Semester - Register F21RP and 1 Optional Course</b>					
F21AS	Advanced Software Engineering	Mandatory	2	January Semester	Jan 2023 To May 2023
F21RP	Research Methods & Project Planning	Mandatory	2		
F21BD	Big Data Management	Optional	2		
F21AD	Advanced Interaction Design	Optional	2		
F21AO	Applied Development and Operations (DevOps)	Optional	2		
F21GP	Computer Games Programming	Optional	2		
F21AN	Advanced Network Security	Optional	2		
<b>May Semester - 1 Mandatory Course [Applicable to ONLY MSc Students] (Register on successful completion of 8 taught courses)</b>					
F21MP	MSc Project & Dissertation	Mandatory	2	May Semester	May 2023 to August 2023
<b>Note:</b>					

## Post Graduate Taught Programme Guide- ONLY for January Intake Students

- Part time students should register F21RP **ONLY** at the second Year of studies. Students will be eligible to enrol to this course only on successful completion of 7 courses or being registered as the 8<sup>th</sup> course at their final taught semester.
- Part time students are encouraged to meet their Personal Tutor or Programme Director if they wish to choose more than 2 courses in a semester.
- Students are encouraged to take optional courses before the mandatory courses.
- Students are expected to complete 5 taught courses by the end of September Semester in the first year to meet the F21RP eligibility requirement in the second year.

## Post Graduate Taught Programme Guide- ONLY for January Intake Students

### MSc / Postgraduate Diploma Information Technology (Software Systems)

<b>Programme Name</b>		: <b>MSc / Postgraduate Diploma Information Technology (Software Systems)</b>			
<b>Programme Code</b>		: <b>F2EG-ITS</b>			
<b>Mode of Study</b>		: <b>Part Time</b>			
Key Contacts					
Designation		Name		Contact Email	
<b>Programme Director</b>		Kavyan Karim		<a href="mailto:k.karim@hw.ac.uk" style="color: blue;">k.karim@hw.ac.uk</a>	
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
<b>New Students</b>					
<b>Stage 1 – First Year</b>					
<b>January Semester - Register 2 or 3 Courses</b>					
F21AD	Advanced Interaction Design	Optional	1	January Semester	Jan 2023 To May 2023
F21AS	Advanced Software Engineering	Optional	1		
F21GP	Computer Games Programming	Optional	1		
F21DV	Data Visualisation and Analytics	Optional	1		
F21EC	e-Commerce Technology	Optional	1		
<b>September Semester – Register 2 or 3 Courses</b>					
F21DF	Databases and Information Systems	Mandatory	1	September Semester	Sept 2023 to Dec 2023
F21CN	Computer Network Security	Optional	1		
F21GA	3D Graphics and Animation	Optional	1		
F21RO	Intelligent Robotics	Optional	1		
F21SC	Industrial Programming	Optional	1		
F21SF	Software Engineering Foundations	Optional	1		
<b>Continuing Students</b>					
<b>Stage 1 – Second Year</b>					
<b>January Semester - Register F21RP and 1 Optional Course</b>					
F21RP	Research Methods and Project Planning	Mandatory	2	January Semester	Jan 2023 To May 2023
F21AD	Advanced Interaction Design	Optional	2		
F21AS	Advanced Software Engineering	Optional	2		
F21GP	Computer Games Programming	Optional	2		
F21DV	Data Visualisation and Analytics	Optional	2		
F21EC	e-Commerce Technology	Optional	2		
<b>May Semester - 1 Mandatory Course [Applicable to ONLY MSc Students] (Register on successful completion of 8 taught courses)</b>					
F21MP	MSc Project & Dissertation	Mandatory	2	May Semester	May 2023 to August 2023
<b>Note:</b>					

## Post Graduate Taught Programme Guide- ONLY for January Intake Students

- Part time students should register F21RP **ONLY** at the second Year of studies. Students will be eligible to enrol to this course only on successful completion of 7 courses or being registered as the 8<sup>th</sup> course at their final taught semester.
- Part time students are encouraged to meet their Personal Tutor or Programme Director if they wish to choose more than 2 courses in a semester.
- Students are encouraged to take optional courses before the mandatory courses.
- Students are expected to complete 5 taught courses by the end of September Semester in the first year to meet the F21RP eligibility requirement in the second year.

## Post Graduate Taught Programme Guide- ONLY for January Intake Students

### MSc / Postgraduate Diploma Information Technology (Business)

<b>Programme Name</b>	: MSc / Postgraduate Diploma Information Technology (Business)				
<b>Programme Code</b>	: F2CG-ITB				
<b>Mode of Study</b>	: Part Time				
Key Contacts					
Designation		Name		Contact Email	
Programme Director		Nasreddine Megrez		<a href="mailto:n.megrez@hw.ac.uk">n.megrez@hw.ac.uk</a>	
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
<b>New Students</b>					
<b>Stage 1 – First Year</b>					
<b>January Semester - Register 2 or 3 Courses</b>					
F21DE	Digital and Knowledge Economy	Mandatory	1	January	Jan 2023 To May 2023
F21BD	Big Data Management	Optional	1		
F21EC	e-Commerce Technology	Optional			
C11PA	Project Management	Optional	1		
H11EV	Entrepreneurial Venturing	Optional	1		
<b>September Semester – Register 2 or 3 Courses</b>					
F21DF	Databases and Information Systems	Mandatory	1	September	Sept 2023 to Dec 2023
F21IF	Information Systems Methodologies	Optional	1		
F21SA	Statistical Modelling and Analysis	Optional	1		
F21SF	Software Engineering Foundations	Optional	1		
C11CS	Competitive Strategy	Optional	1		
H11EN	Entrepreneurship and Creativity	Optional	1		
<b>Continuing Students</b>					
<b>Stage 1 – Second Year</b>					
<b>January Semester - Register F21RP and 1 Optional Course</b>					
F21RP	Research Methods and Project Planning	Mandatory	2	January	Jan 2023 To May 2023
F21DE	Digital and Knowledge Economy	Mandatory	2		
F21BD	Big Data Management	Optional	2		
F21EC	e-Commerce Technology	Optional	2		
C11PA	Project Management	Optional	2		
H11EV	Entrepreneurial Venturing	Optional	2		
<b>May Semester - 1 Mandatory Course [Applicable to ONLY MSc Students]</b> <i>(Register on successful completion of 8 taught courses)</i>					
F21MP	MSc Project & Dissertation	Mandatory	2	May	May 2023 to Aug 2023
<b>Note:</b>					

## Post Graduate Taught Programme Guide- ONLY for January Intake Students

- Part time students should register F21RP **ONLY** at the second Year of studies. Students will be eligible to enrol to this course only on successful completion of 7 courses or being registered as the 8<sup>th</sup> course at their final taught semester.
- Part time students are encouraged to meet their Personal Tutor or Programme Director if they wish to choose more than 2 courses in a semester.
- Students are encouraged to take optional courses before the mandatory courses.
- Students are expected to complete 5 taught courses by the end of September Semester in the first year to meet the F21RP eligibility requirement in the second year.