

# Programme Guide for Postgraduate Taught Programmes Mathematical and Computing Sciences – Dubai Campus

## **Academic Year 202324**

**Academic Year Calendar for 202324** 

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

## Programme List

MSc / Postgraduate Diploma Artificial Intelligence	3
Full Time	3
Part Time	
New Students	
Continuing Students	
MSc / Postgraduate Diploma Data Science	6
Full Time	6
Part Time	
New Students	
Continuing Students	
MSc Information Technology (Business)	<u>.</u>
Full Time	<u>C</u>
Part Time	
New Students	
Continuing Students	
MSc Information Technology (Software Systems)	
Full Time	12
Part Time	
New Students	
Continuing Students	
MSc / Postgraduate Diploma Network Security	
Full Time	
Part Time	
New Students	
Continuing Students	
MSc Software Engineering	
Full Time	18
Part Time	
New Students	
Continuing Students	

## MSc / Postgraduate Diploma Artificial Intelligence

**Advanced Interaction Design** 

**Advanced Software Engineering** 

Applied Development and Operations (DevOps)

Programme Name	:	MSc / Postgraduate Diploma Artificial Intelligence
Programme Code	:	F2Z7-ARI / F2Z5-ARI
Mode of Study	:	Full Time

	-							
	Key Contacts							
	Designation		Name			Contact Email		
Programm	ne Director	Dr	Neamat El Gayar		n.elg	n.elgayar@hw.ac.uk		
Dissertation	on Coordinator	Dr	Ryad Soobhany		<u>r.soc</u>	obhany@hw.ac	<u>.uk</u>	
Course Code	Course Title			Mandatory /Optional	Year	Semester	Semester Dates	
	September Semester - 2 Mandatory and 2 Optional Courses							
F21DL	Data Mining & Machine Learning			Mandatory	1	September		
F21BC	Biologically inspired Comp	utat	ion	Mandatory	1	September	C+ 2022	
F21GA	3D Graphics and Animation	1		Optional	1	September	Sept 2023	
F21RO	Intelligent Robotics			Optional	1	September	to Dec 2023	
F21SF	F Software Engineering Foundations			Optional	1	September	Dec 2023	
F29Al Artificial intelligence & Intelligent Agents			Optional	1	September			
	January Ser	nes	ter – 1 Mandatory an	d 3 Optional C	ourse(s)			
F21RP	Research Methods and Project Planning			Mandatory	1	January		
F21AA	Applied Text Analytics			Optional	1	January		

F21BD	Big Data Management	Optional	1	January				
F21GP	Computer Games Programming	Optional	1	January				
	May Semester – 1 Mandatory Course [Applicable to ONLY MSc Students]							
	(To be registered on successful completion of above 8 taught courses)							
F21MP	MSc Project & Dissertation	Mandatory	1	May	Jun 2024			
					to			
					Aug 2024			
Alaka.								

Optional

Optional

Optional

1

1

January

January

January

Jan 2024

to

Apr 2024

#### Note:

F21AD

F21AO

F21AS

- Submission of Mitigating Circumstances [MC] request due to employment workload by full-time students will NOT be considered as an acceptable reason. Students with fulltime employment are encouraged to choose Part-time study mode.
- Students with resits may have their progression to F21MP delayed. Refer to the handbook for further details.

Programn	ne Name	:	MSc / Postgradua	ate Diploma A	rtifici	al Intelligence	
Programn		:	F2Z7-ARI / F2Z5-A	•		<u> </u>	
Mode of S	Study	:	Part Time				
	Key Contacts						
	Designation		Nam			Contact	Email
Programn	ne Director	Dr Neamat El Gayar n.elgayar@hw.ac.u			<u>.uk</u>		
Dissertati	on Coordinator	Dr	Ryad Soobhany			r.soobhany@hw.	ac.uk
Course Code	Course Title			Mandatory /Optional	Yea	ar Semester	Semester Dates
	New Students						
		_	Stage 1 – Firs				
	Septe	emb	er Semester - R	egister 2 Co	urse	S	
F21DL	Data Mining & Machine Lea	arnir	ng	Mandatory	1	September	
F21BC	Biologically inspired Compu	ıtati	on	Mandatory	1	September	Cont 2022
F21GA	3D Graphics and Animation	1		Optional	1	September	Sept 2023 to
F21RO	Intelligent Robotics			Optional	1	September	Dec 2023
F21SF	Software Engineering Foun	dati	ons	Optional	1	September	Dec 2023
F29AI	Artificial intelligence & Inte			Optional	1	September	
	January Semester – Register 2 Optional Courses						
F21AA		Applied Text Analytics			1	January	
F21AD		Advanced Interaction Design			1	January	Jan 2024
F21AO	Applied Development and Operations (DevOps)			Optional	1	January	to
F21AS	Advanced Software Engineer	erin	g	Optional	1	January	Apr 2024
F21BD	Big Data Management			Optional	1	January	
F21GP	Computer Games Programi	mın		Optional	1	January	
			Continuing St				
			Stage 1 - Seco				
-	Register Mandatory Cours	ses	-	registered it	duri	ng First Year of	Study]
F21DL	Data Mining & Machine Lea			Mandatory	1	September	
F21BC	Biologically inspired Compu		on	Mandatory	1	September	Sept 2023
F21GA	3D Graphics and Animation	1		Optional	1	September	to
F21RO	Intelligent Robotics Software Engineering Foun	da+:	ons	Optional	1	September	Dec 2023
F21SF F29AI	Artificial intelligence & Inte			Optional Optional	1	September September	$\dashv$
ı-ZJAI			r – Register F21	•		-	
	January Jenie	,31 <del>C</del>	- Negister i'Zi	iti aliu i Op		ai Ooui 3c	
F21RP	Research Methods and Pro	ject	Planning	Mandatory	1	January	
F21AA	Applied Text Analytics			Optional	1	January	_
F21AD	Advanced Interaction Design	gn		Optional	1	January	Jan 2024
F21AO	Applied Development and 0	Оре	rations (DevOps)	Optional	1	January	to
F21AS	Advanced Software Engineer	erin	g	Optional	1	January	Apr 2024
F21BD	Big Data Management			Optional	1	January	_
F21GP	Computer Games Programi	min	3	Optional	1	January	

	May Semester – 1 Mandatory Course [Applicable to ONLY MSc Students] (Register on successful completion of 8 taught courses)					
F21MP	MSc Project & Dissertation	Mandatory	1	May	Jun 2024 to Dissertation Deadline	

- Part-time students can register 1 or 2 courses per semester. Students are encouraged to meet their Personal Tutor or Programme Director if they wish to choose more than 2 courses in a semester.
- January intake students need to carefully consider their courses sequencing and are advised to consult with their Personal Tutor or Programme Director.
- Students will be eligible to register in F21RP ONLY on successful completion of 7 courses or being registered to complete 7 courses with F21RP being the 8<sup>th</sup> course in their final taught semester. For most part-time students this will be during their second year of studies.
- Students with resits may have their progression to F21MP delayed. Refer to the handbook for further details.

## MSc / Postgraduate Diploma Data Science

Programme Name	:	MSc / Postgraduate Diploma Data Science
Programme Code	:	F2D1-DSC / F2D2-DSC
Mode of Study	:	Full Time

Key Contacts						
Designation Name Contact Email						
Programme Director	Dr Hind Zantout	h.zantout@hw.ac.uk				
Dissertation Coordinator	Dr Ryad Soobhany	r.soobhanv@hw.ac.uk				

	Di Nyau Soubilany		<u> </u>	300bilariy@riw.a	<u>c.uk</u>			
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates			
Code	Sontombor Somostor 2 Mandat		tional	Courses	Datoo			
	September Semester - 2 Mandat		Juonai					
F21DL	Data Mining & Machine Learning	Mandatory	1	September				
F21SA	Statistical Modelling and Analysis	Mandatory	1	September	Sept 2023			
F21BC	Biologically Inspired Computation	Optional	1	September	•			
F21CN	Computer Network Security	Optional	1	September	to Dec 2023			
F21SC	Industrial Programming	Optional	1	September	Dec 2023			
F21SF	Software Engineering Foundations	Optional	1	September				
January Semester – 3 Mandatory and 1 Optional Course(s)								
F21RP	Research Methods and Project Planning	Mandatory	1	January				
F21BD	Big Data Management	Mandatory	1	January				
F21DV	Data Visualisation and Analytics	Mandatory	1	January	Jan 2024			
F21AO	Applied Development and Operations	Optional	1	January	to			
F21AS	Advanced Software Engineering	Optional	1	January	Apr 2024			
F21AA	Applied Text Analytics	Optional	1	January				
F21DE	Digital and Knowledge Economy	Optional	1	January				
	May Semester – 1 Mandatory Course [/	Applicable to	ONLY	MSc Students	s]			
	(Register ONLY on successful completion of above 8 taught courses)							
F21MP	MSc Project & Dissertation	Mandatory	1	May	Jun 2024			
					to			
					Aug 2024			

- Submission of Mitigating Circumstances [MC] request due to employment workload by full-time students will NOT be considered as an acceptable reason. Students with fulltime employment are encouraged to choose Part-time study mode.
- Students with resits may have their progression to F21MP delayed. Refer to the handbook for further details.

Programn	ne Name	:	MSc / Postgradua	ate Diploma D	ata Scie	ence		
Programn	ne Code	:	F2D1-DSC / F2D2	-DSC				
Mode of S	Study	:	Part Time					
			Key Contact	:s				
Designation			Nam	ie		Contact	Email	
Programm	ne Director	Dr	Hind Zantout		<u>h</u>	.zantout@hw.a	ac.uk	
Dissertation	on Coordinator	Dr	Ryad Soobhany		<u>r</u>	.soobhany@hw	<u>ı.ac.uk</u>	
Course Code	Course Title			Mandatory /Optional	Year	Semester	Semester Dates	
	New Students							
	Canta	la -	Stage 1 – First					
	Septe	mbe	er Semester - Re	gister 2 Cou	rses			
F21DL	Data Mining & Machine Lo	earni	ing	Mandatory	1	September		
F21SA	Statistical Modelling and A	\nal <sub>y</sub>	/sis	Mandatory	1	September	Sont 2022	
F21BC	Biologically Inspired Comp	outat	tion	Optional	1	September	Sept 2023 to	
F21CN	Computer Network Securi	ty		Optional	1	September	Dec 2023	
F21SC	Industrial Programming			Optional	1	September	Dec 2023	
F21SF	Software Engineering Fou			Optional	1	September		
Ja	nuary Semester – Regis	ster	2 Mandatory OR	1 Mandatory	/ & 1 C	optional Cour	se(s)	
F21BD	Big Data Management			Mandatory	1	January		
F21DV	Data Visualisation and Analytics			Mandatory	1	January	Jan 2024	
F21AO		Applied Development and Operations			1	January	to	
F21AS	Advanced Software Engine	eerir	ng	Optional	1	January	Apr 2024	
F21AA	Applied Text Analytics			Optional	1	January		
F21DE	Digital and Knowledge Eco	non	ny	Optional	1	January		
			Continuing Stu					
	0 1		Stage 1 – Secon					
ſRe	Septe gister Mandatory Cours		er Semester - Re f vou have not re			First Year of	Studv1	
F21DL	Data Mining & Machine Le			Mandatory	1	September		
F21SA	Statistical Modelling and A	\naly	/sis	Mandatory	1	September	Sept 2023	
F21BC	Biologically Inspired Comp	outat	ion	Optional	1	September	to	
F21CN	Computer Network Securi	ty		Optional	1	September	Dec 2023	
F21SC	Industrial Programming			Optional	1	September		
F21SF	Software Engineering Fou			Optional	1	September		
ID.	January Semester – Register F21RP and 1 Mandatory/Optional Course [Register Mandatory Courses if you have not registered it during First Year of Study]							
							Studyj	
F21RP F21BD	Research Methods and Pr Big Data Management	ojec	t ridillillig	Mandatory Mandatory	1	January	-	
F21DV	Data Visualisation and An	alvti	~c	Mandatory	1	January January	Jan 2024	
F21AO	Applied Development and			Optional	1	January	to	
F21AS	Advanced Software Engine			Optional	1	January	Apr 2024	
F21AA	Applied Text Analytics		<u>'0</u>	Optional	1	January	1 202 .	
F21DE	Digital and Knowledge Eco	non	nv	Optional	1	January		
	0		· 1	- P 0.01101		70		

	May Semester – 1 Mandatory Course [Applicable to ONLY MSc Students] (Register ONLY on successful completion of 8 taught courses						
F21MP	MSc Project & Dissertation	Mandatory	1	May	Jun 2024 to		
					Dissertation		
					Deadline		

- Part-time students can register 1 or 2 courses per semester. Students are encouraged to meet their Personal Tutor or Programme Director if they wish to choose more than 2 courses in a semester.
- January intake students need to carefully consider their courses sequencing and are advised to consult with their Personal Tutor or Programme Director.
- Students will be eligible to register in F21RP ONLY on successful completion of 7 courses or being registered to complete 7 courses with F21RP being the 8<sup>th</sup> course in their final taught semester. For most part-time students this will be during their second year of studies.
- Students with resits may have their progression to F21MP delayed. Refer to the handbook for further details.

## MSc Information Technology (Business)

Programme Name	:	MSc Information Technology (Business)
Programme Code	••	F2CG-ITB
Mode of Study	:	Full Time

Key Contacts						
Designation Name Contact Email						
Programme Director	Mr Nasreddine Megrez	n.megrez@hw.ac.uk				
Dissertation Coordinator	Dr Ryad Soobhany	r.soobhany@hw.ac.uk				

Course Code	Course Title	Mandatory/ Optional	Year	Semester	Semester Dates		
	September Semester - 1 Mandator	y and 3 Option	nal Cou	irse(s)			
F21DF	Databases and Information Systems	Mandatory	1	September			
F21IF	Information Systems Methodologies	Optional	1	September	Cont 2022		
F21SA	Statistical Modelling and Analysis	Optional	1	September	Sept 2023 to		
F21SF	Software Engineering Foundations	Optional	1	September	Dec 2023		
C11CS	Competitive Strategy	Optional	1	September	Dec 2023		
C11IV	Strategic Innovation Mgt	Optional	1 September				
	January Semester – 1 Mandatory	and 3 Optiona	al Cour	se(s)			
F21RP	Research Methods and Project Planning	Mandatory	1	January	Jan 2024		
F21BD	Big Data Management	Optional	1	January	to		
F21EC	e-Commerce Technology	Optional	1	January	Apr 2024		
C11PA	Project Management	Optional	1	January	Apr 2024		
	May Semester – 1 Mandatory Course [Ap			_			
	(To be registered on successful comple	tion of above	8 taug	ht courses)			
F21MP	MSc Project & Dissertation	Mandatory	1	May	Jun 2024		
					to		
					Aug 2024		

- Submission of Mitigating Circumstances [MC] request due to employment workload by full-time students will NOT be considered as an acceptable reason. Students with fulltime employment are encouraged to choose Part-time study mode.
- Students with resits may have their progression to F21MP delayed. Refer to the handbook for further details.

20. a	ne Name	:	MSc Information Tech	nology (Busines	s)					
Programm		:	F2CG-ITB		~·,					
Mode of S			Part Time							
	1									
			Key Con							
	Designation			ame		Contact				
Programm			Mr Nasreddine M	_		n.megrez@hw.ac				
	on Coordinator		Dr Ryad Soobhan			r.soobhany@hw.a				
Course Code	Co	ours	e Title	Mandatory	Ye	ar Semester	Semester Dates			
Code			Name Class	/Optional			Dates			
			New Stu							
			Stage 1 – F	irst Year						
S	eptember Semeste	r - F	Register 2 Optional	OR 1 Mandato	ry &	1 Optional Cour	rse(s)			
F21DF	Databases and Infor	mat	ion Systems	Mandatory	1	September				
F21IF	Information Systems	s Me	ethodologies	Optional	1	September	Sept 2023			
F21SA	Statistical Modelling			Optional	1	September	to			
F21SF	Software Engineerin	ıg Fo	oundations	Optional	1	September	Dec 2023			
C11CS	Competitive Strateg	у		Optional	1	September				
C11IV	Strategic Innovation	Mg	t	Optional	1	September				
	Jan	uar	y Semester – Regis	ster 2 Optional	Cou	rses				
F21BD	Big Data Manageme			Optional	1	January	Jan 2024			
F21EC	e-Commerce Techno	olog	У	Optional	1	January	to			
C11PA	Project Managemen	<b>1</b> +		Optional	1	January	Apr 2024			
CITLY	1 Toject Managemen	Ι .		Continuing Students						
CIIFA	i roject wanagemen	10	Continuing	· ·						
CIIFA	Troject Wanagemen		Continuing Stage 1 – Se	Students						
S	eptember Semeste	r - F		Students cond Year OR 1 Mandato	-	•	<b>\</b> /			
S	eptember Semeste	r - F Cou	Stage 1 – Se Register 2 Optional Irses if you have no	Students cond Year OR 1 Mandato	-	•	<b>\</b> /			
Se [Re	eptember Semeste egister Mandatory (	r - I Cou	Stage 1 – Se Register 2 Optional Irses if you have no ion Systems	Students cond Year OR 1 Mandato ot registered it	duri	ng First Year of	Studý]			
Se [Re	eptember Semeste egister Mandatory (	r - I Cou mat	Stage 1 – Se Register 2 Optional Irses if you have no ion Systems ethodologies	Students cond Year  OR 1 Mandato t registered it  Mandatory	duri 1	September	Study] Sept 2023			
F21DF F21IF F21SA F21SF	eptember Semeste egister Mandatory ( Databases and Infor Information Systems	r - F Cou mat s Me	Stage 1 – Se Register 2 Optional Irses if you have no ion Systems ethodologies d Analysis	OR 1 Mandato ot registered it  Mandatory Optional	duri	September September September September September	Study] Sept 2023 to			
F21DF F21IF F21SA F21SF C11CS	eptember Semeste egister Mandatory ( Databases and Infor Information Systems Statistical Modelling	er - I Cou mat s Me g and	Stage 1 – Se Register 2 Optional Irses if you have no ion Systems ethodologies d Analysis	OR 1 Mandato t registered it  Mandatory Optional Optional	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	September September September September September September September	Study] Sept 2023			
F21DF F21IF F21SA F21SF	eptember Semeste egister Mandatory ( Databases and Infor Information Systems Statistical Modelling Software Engineerin	mat s Me g and	Stage 1 – Se Register 2 Optional urses if you have no ion Systems ethodologies d Analysis oundations	OR 1 Mandato ot registered it  Mandatory Optional Optional Optional	1 1 1 1	September September September September September	Study] Sept 2023 to			
F21DF F21IF F21SA F21SF C11CS	eptember Semeste egister Mandatory ( Databases and Infor Information Systems Statistical Modelling Software Engineerin Competitive Strateg Entrepreneurial Ven	rmat s Me g and g Fo	Stage 1 – Se Register 2 Optional urses if you have no ion Systems ethodologies d Analysis oundations	OR 1 Mandato t registered it  Mandatory Optional Optional Optional Optional Optional Optional Optional	1 1 1 1 1 1 1 1 1	September September September September September September September September	Study] Sept 2023 to			
F21DF F21IF F21SA F21SF C11CS	eptember Semeste egister Mandatory ( Databases and Infor Information Systems Statistical Modelling Software Engineerin Competitive Strateg Entrepreneurial Ven	mat s Me g and ng Fo y	Stage 1 – Se Register 2 Optional arses if you have not set to do logies de Analysis bundations  mester - Register F	OR 1 Mandato t registered it  Mandatory Optional Optional Optional Optional Optional Optional Optional	1 1 1 1 1 1 1 1 1	September September September September September September September September	Study] Sept 2023 to			
F21DF F21IF F21SA F21SF C11CS C11IV	eptember Semeste egister Mandatory ( Databases and Infor Information Systems Statistical Modelling Software Engineerin Competitive Strateg Entrepreneurial Ven	mat s Me g and g Fo y uturi	Stage 1 – Se Register 2 Optional arses if you have not set to do logies de Analysis bundations  mester - Register F	Students cond Year  OR 1 Mandato of registered it  Mandatory Optional Optional Optional Optional Optional Optional Optional Optional	duri	September September September September September September September September Al course	Sept 2023 to Dec 2023			
F21DF F21IF F21SA F21SF C11CS C11IV	eptember Semeste egister Mandatory ( Databases and Infor Information Systems Statistical Modelling Software Engineerin Competitive Strateg Entrepreneurial Ven  January  Research Methods a	mat mat s Me g and g Fc y turi	Stage 1 – Se  Register 2 Optional arses if you have not ion Systems ethodologies d Analysis oundations  mester - Register F  Project Planning	OR 1 Mandato tregistered it  Mandatory Optional Optional Optional Optional Optional Optional Aprional Optional Optional Mandatory Mandatory	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	September September September September September September September September January	Sept 2023 to Dec 2023			

May Semester – 1 Mandatory Course [Applicable to ONLY MSc Students] (Register on successful completion of 8 taught courses							
F21MP	MSc Project & Dissertation	Mandatory	1	May	Jun 2024 to Dissertation Deadline		

- Part-time students can register 1 or 2 courses per semester. Students are encouraged to meet their Personal Tutor or Programme Director if they wish to choose more than 2 courses in a semester.
- January intake students need to carefully consider their courses sequencing and are advised to consult with their Personal Tutor or Programme Director.
- Students will be eligible to register in F21RP ONLY on successful completion of 7 courses or being registered to complete 7 courses with F21RP being the 8<sup>th</sup> course in their final taught semester. For most part-time students this will be during their second year of studies.
- Students with resits may have their progression to F21MP delayed. Refer to the handbook for further details.

## MSc Information Technology (Software Systems)

Programme Name	:	MSc Information Technology (Software Systems)
Programme Code	:	F2EG-ITS
Mode of Study	:	Full Time

Key Contacts						
Designation Name Contact Email						
Programme Director	Mr Kayvan Karim	k.karim@hw.ac.uk				
Dissertation Coordinator	Dr Ryad Soobhany	r.soobhany@hw.ac.uk				

	Di Nyaa Soobilany		1.3000	marry @ mw.ac.a	<u> </u>
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
	September Semester - 1 Mandator	y and 3 Opti	onal Co	ourse(s)	
F21DF	Databases and Information Systems	Mandatory	1	September	
F21CN	Computer Network Security	Optional	1	September	Con+ 2022
F21GA	3D Graphics and Animation	Optional	1	September	Sept 2023
F21RO	Intelligent Robotics	Optional	1	September	to Dec 2023
F21SC	Industrial Programming	Optional	1	September	Dec 2023
F21SF	Software Engineering Foundations	Optional	1	September	
	January Semester – 1 Mandator	ry and 3 Opti	onal C	ourse	
F21RP	Research Methods and Project Planning	Mandatory	1	January	
F21AD	Advanced Interaction Design	Optional	1	January	Jan 2024
F21AS	Advanced Software Engineering	Optional	1	January	
F21GP	Computer Games Programming	Optional	1	January	to Apr 2024
F21DV	Data Visualisation and Analytics	Optional	1	January	Αρι 2024
F21EC	e-Commerce Technology	Optional	1	January	
	May Semester – 1 Mandatory Course [A				
	(To be registered on successful complete	etion of abov	∕e 8 tau	ight courses,	)
F21MP	MSc Project & Dissertation	Mandatory	1	May	Jun 2024
					to
					Aug 2024

- Submission of Mitigating Circumstances [MC] request due to employment workload by full-time students will NOT be considered as an acceptable reason. Students with fulltime employment are encouraged to choose Part-time study mode.
- Students with resits may have their progression to F21MP delayed. Refer to the handbook for further details.

Programn	ne Name	:	MSc Information Techn	ology (Softwar	e Svster	ms)		
Programm		:	F2EG-ITS		,,,,,,,	,		
Mode of S		:	Part Time					
			Key Conta	cts				
	Designation		Name			Contact Er	mail	
Programm	ne Director		Kayvan Karim		k.karir	k.karim@hw.ac.uk		
Dissertation	on Coordinator		Dr Ryad Soobhany		r.soob	hany@hw.ac.u	<u>k</u>	
Course	Course Title			Mandatory	Year		Semester	
Code				/Optional			Dates	
			New Stude	ents				
			Stage 1 – Firs	st Year				
S	eptember Semester		Register 2 Optional O	R 1 Mandato	ry & 1 (	Optional Cou	rse(s)	
					1	September		
F21DF	Databases and Infor			Mandatory			1	
F21CN	Computer Network			Optional	1	September	Sept 2023	
F21GA	3D Graphics and Ani	ma	ation	Optional	1	September	to	
F21RO	Intelligent Robotics			Optional	1	September	Dec 2023	
F21SC	Industrial Programm		_	Optional	1	September		
F21SF	Software Engineerin			Optional	1	September		
	Jan	ua	ry Semester – Registe	er 2 Optional	Course	es		
F21AD	Advanced Interactio	n [	Design	Optional	1	January		
F21AS	Advanced Software	En	gineering	Optional	1	January	Jan 2024	
F21GP	Computer Games Pr	og	ramming	Optional	1	January	to	
F21DV	Data Visualisation ar	nd	Analytics	Optional	1	January	Apr 2024	
F21EC	e-Commerce Techno	olo	gy	Optional	1	January		
			Continuing St	udents				
			Stage 1 – Seco	nd Year				
			Register 2 Optional Ourses if you have not					
F21DF	Databases and Infor	ma	ation Systems	Mandatory	1	September		
F21CN	Computer Network		•	Optional	1	September	1	
F21GA	3D Graphics and Ani			Optional	1	September	Sept 2023	
F21RO	Intelligent Robotics			Optional	1	September	to	
F21SC	Industrial Programm	nin	g	Optional	1	September	Dec 2023	
F21SF	Software Engineerin			Optional	1	September	1	
			emester - Register F21	RP and 1 Op	tional			
F21RP	Research Methods a	nd	Project Planning	Mandatory	1	January		
F21AD	Advanced Interactio		Optional	1	January	1 .		
F21AS	Advanced Software		Optional	1	January	Jan 2024		
F21GP	Computer Games Pr	_	· · · · · · · · · · · · · · · · · · ·	Optional	1	January	to	
F21DV	Data Visualisation ar	_	-	Optional	1	January	- Apr 2024	
F21EC	e-Commerce Techno		•	Optional	1	January	1	
			·,	1 1 2 2 2 2	<u> </u>		1	

May Semester – 1 Mandatory Course [Applicable to ONLY MSc Students] (Register on successful completion of 8 taught courses							
F21MP	MSc Project & Dissertation	Mandatory	1	May	Jun 2024 to Dissertation Deadline		

- Part-time students can register 1 or 2 courses per semester. Students are encouraged to meet their Personal Tutor or Programme Director if they wish to choose more than 2 courses in a semester.
- January intake students need to carefully consider their courses sequencing and are advised to consult with their Personal Tutor or Programme Director.
- Students will be eligible to register in F21RP ONLY on successful completion of 7 courses or being registered to complete 7 courses with F21RP being the 8<sup>th</sup> course in their final taught semester. For most part-time students this will be during their second year of studies.
- Students with resits may have their progression to F21MP delayed. Refer to the handbook for further details.

## MSc / Postgraduate Diploma Network Security

Programme Name	:	MSc / Postgraduate Diploma Network Security
Programme Code	:	F2N3-CNS / F2N2-CNS
Mode of Study	:	Full Time

Key Contacts							
Designation Name Contact Email							
Programme Director	Dr Hani Ragab Hassen	h.ragabhassen@hw.ac.uk					
Dissertation Coordinator	Dr Ryad Soobhany	r.soobhany@hw.ac.uk					

Course	Course Title	Mandatory	Year	Semester	Semester
Code		/Optional			Dates
	September Semester - 1 Mandatory	and 3 Optio	nal Co	urse(s)	1
F21CN	Computer Network Security	Mandatory	1	September	
F29DC	Data Communications and Networking	Optional	1	September	
F21DF	Database and Information Systems	Optional	1	September	Cont 2022
F21DL	Data Mining and Machine Learning	Optional	1	September	Sept 2023
F21RS	Rigorous Method for Software Engineering	Optional	1	September	to Dec 2023
F21SP	Systems Programming	Optional	1	September	Dec 2023
F21SC	Industrial Programming	Optional	1	September	
F21SF	Software Engineering Foundations	Optional	1	September	
	January Semester – 3 Mandatory a	and 1 Option	al Cou	rse(s)	
F21RP	Research Methods and Project Planning	Mandatory	1	January	
F21AN	Advanced Network Security	Mandatory	1	January	
F21FO	Digital Forensics	Mandatory	1	January	Jan 2024
F21AO	Applied Development and Operations	Optional	1	January	to
F21AS	Advanced Software Engineering	Optional	1	January	Apr 2024
F21BD	Big Data Management	Optional	1	January	
C11PA	Project Management	Optional	1	January	
	May Semester - 1 Mandatory Course [Ap	plicable to O	NLY M	Sc Students]	
	(To be registered on successful complete	tion of above	e 8 taug	tht courses)	
F21MP	MSc Project & Dissertation	Mandatory	1	May	Jun 224
					to
					Aug 2024

- Submission of Mitigating Circumstances [MC] request due to employment workload by full-time students will NOT be considered as an acceptable reason. Students with fulltime employment are encouraged to choose Part-time study mode.
- Students with resits may have their progression to F21MP delayed. Refer to the handbook for further details.

Programme Name	:	/ISc / Postgraduate Diploma Network Security			
Programme Code	••	F2N3-CNS / F2N2-CNS			
Mode of Study	•	Part Time			

Mode of Study : Pa				Time				
				Key Contac	ts			
	Designation			Nan	ne		Contact	Email
Programm	e Director		1	Dr Hani Ragab Hasse	en		h.ragabhassen@hw.ac.uk	
Dissertatio	on Coordinator		1	Dr Ryad Soobhany			r.soobhany@hw.	.ac.uk
				New Stude	nts			
				Stage 1 – Firs	t Year			
S	eptember Semeste	r - I	Regis	ter 2 Optional OF	R 1 Mandato	ry & 1	1 Optional Cou	rse(s)
F21CN	Computer Network	Seci	urity		Mandatory	1	September	
F29DC	Data Communicatio	ns a	nd Ne	tworking	Optional	1	September	
F21DF	Database and Inforr	nati	on Sys	stems	Optional	1	September	Sept 2023
F21DL	Data Mining and Ma	chi	ne Lea	rning	Optional	1	September	to
F21RS	Rigorous Method fo	r So	ftware	e Engineering	Optional	1	September	Dec 2023
F21SC	Industrial Programming				Optional	1	September	
F21SF	Software Engineering Foundations				Optional	1	September	
J	anuary Semester –	Re	giste	r 2 Mandatory OF	R 1 Mandatoi	ry & 1	Optional Cou	rse(s)
F21AN	Advanced Network	Secu	urity		Mandatory	1	January	
F21FO	Digital Forensics				Mandatory	1	January	lan 2024
F21AO	Applied Developme	nt a	nd Op	erations	Optional	1	January	Jan 2024 to
F21AS	Advanced Software Engineering				Optional	1	January	Apr 2024
F21BD	Big Data Management				Optional	1	January	Αρι 2024
C11PA	Project Managemer	ıt			Optional	1	January	
				Continuing Stu	ıdents			
				Stage 1 – Seco	nd Year			
	eptember Semeste egister Mandatory							
F21CN	Computer Network	Seci	urity		Mandatory	1	September	
F29DC	Data Communicatio	ns a	nd Ne	tworking	Optional	1	September	
F21DF	Database and Information Systems				Optional	1	September	Sept 2023
F21DL	Data Mining and Ma	chi	ne Lea	rning	Optional	1	September	to
F21RS	Rigorous Method fo	r So	ftware	e Engineering	Optional	1	September	Dec 2023
F21SC	Industrial Programn	ning			Optional	1	September	

## F21SF Software Engineering Foundations Optional 1 September January Semester - Register F21RP and 1 Mandatory/Optional course [Register Mandatory Course if you have not registered it during First Year of Study]

L. v.	[Register managery course in you have not registered it during that real of ctudy]									
F21RP	Research Methods and Project Planning		1	January						
F21AN	Advanced Network Security	Mandatory	1	January						
F21FO	Digital Forensics	Mandatory	1	January	Jan 2024					
F21AO	Applied Development and Operations	Optional	1	January	to					
F21AS	Advanced Software Engineering	Optional	1	January	Apr 2024					
F21BD	Big Data Management	Optional	1	January						
C11PA	Project Management	Optional	1	January						

May Semester – 1 Mandatory Course [Applicable to ONLY MSc Students] (Register on successful completion of 8 taught courses								
F21MP	MSc Project & Dissertation	Mandatory	1	May	Jun 2024 to Dissertation Deadline			

- Part-time students can register 1 or 2 courses per semester. Students are encouraged to meet their Personal Tutor or Programme Director if they wish to choose more than 2 courses in a semester.
- January intake students need to carefully consider their courses sequencing and are advised to consult with their Personal Tutor or Programme Director.
- Students will be eligible to register in F21RP ONLY on successful completion of 7 courses or being registered to complete 7 courses with F21RP being the 8<sup>th</sup> course in their final taught semester. For most part-time students this will be during their second year of studies.
- Students with resits may have their progression to F21MP delayed. Refer to the handbook for further details.

## MSc Software Engineering

Programme Name	:	1Sc Software Engineering				
Programme Code	:	S7-SOE				
Mode of Study	:	Full Time				

Key Contacts								
Designation Name Contact Email								
Programme Director	Dr Abrar Ullah	a.ullah@hw.ac.uk						
Dissertation Coordinator	Dr Ryad Soobhany	r.soobhany@hw.ac.uk						

Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates						
Couc	September Semester - 2 Mandatory and 2 Optional Courses										
			1	September							
F21RS	Rigorous Methods for Software Engineering	Mandatory									
F21SC	Industrial Programming	Mandatory	1	September	Comt 2022						
F21BC	Biologically Inspired Computation	Optional	1	September	Sept 2023						
F21CN	Computer Network Security	Optional	1	September	to Dec 2023						
F21SP	Systems Programming	Optional	1	September	Dec 2023						
F21GA	3D Graphics and Animation	Optional	1	September							
F21DL	Data Mining and Machine Learning	Optional	1	September							
	January Semester – 2 Mandatory and 2 Optional Courses										
F21RP	Research Methods & Project Planning	Mandatory	1	January							
F21AS	Advanced Software Engineering	Mandatory	1	January							
F21BD	Big Data Management	Optional	1	January	Jan 2024 to						
F21AD	Advanced Interaction Design	Optional	1	January							
F21AO	Applied Development and Operations (DevOps)	Optional	1	January	Apr 2024						
F21GP	Computer Games Programming	Optional	1	January							
F21AN	Advanced Network Security	Optional	1	January							
	May Semester – 1 Mandatory Course [Applicable to ONLY MSc Students]										
	(To be registered on successful comple	etion of abov	e 8 tau	ght courses)							
F21MP	MSc Project & Dissertation	Mandatory	1	May	Jun 2024						
					to						
					Aug 2024						

- Submission of Mitigating Circumstances [MC] request due to employment workload by full-time students will NOT be considered as an acceptable reason. Students with fulltime employment are encouraged to choose Part-time study mode.
- Students with resits may have their progression to F21MP delayed. Refer to the handbook for further details.

Programm	ne Name	:	MSc Software Engineeri	ng				
Programm	ne Code	:	F2S7-SOE					
Mode of S	tudy	:	Part Time					
			Key Contact	ts				
	Designation		Name			Contact En	nail	
Programm	e Director		Dr Abrar Ullah		<u>a.ullah</u>	<u>@hw.ac.uk</u>		
Dissertation	Dissertation Coordinator Dr Ryad Soobhany r.soobhany@hw.ac.uk							
Course Code	C	Cours	se Title	Mandator y/Optional	Year	Semester	Semester Dates	
			New Studer					
			Stage 1 – First	Year				
		Sep	otember Semester - Re	gister 2 Cou	ırses			
F21RS	Rigorous Methods	for S	oftware Engineering	Mandatory	1	September		
F21SC	Industrial Program	ming	<u> </u>	Mandatory	1	September	Son+ 2022	
F21BC	Biologically Inspire	d Co	mputation	Optional	1	September	Sept 2023 to	
F21CN	Computer Network	k Sec	urity	Optional	1	September	Dec 2023	
F21GA	3D Graphics and Ar	nima	tion	Optional	1	September	Dec 2023	
F21DL	Data Mining and M			Optional	1	September		
Já	anuary Semester -	- Re	gister 2 Optional OR 1	Mandatory	and 1 C	Optional cour	se(s)	
F21AS	Advanced Software	e Eng	ineering	Mandatory	1	January		
F21BD	Big Data Managem	ent		Optional	1	January	lon 2024	
F21AD	Advanced Interacti	on D	esign	Optional	1	January	Jan 2024 to	
F21AO	Applied Developme	nd Operations (DevOps)	Optional	1	January	ιο Apr 2024		
F21GP	Computer Games F	rogr	amming	Optional	1	January	Apr 2024	
F21AN	Advanced Network	Sec	urity	Optional	1	January		
			Continuing Stu					
			Stage 1 – Secor	nd Year				
			tember Semester - Re					
			irses if you have not re	T		1	Study]	
F21RS	Rigorous Methods	for S	oftware Engineering	Mandatory	1	September		
F21SC	Industrial Program			Mandatory	1	September	Sept 2023	
F21BC	Biologically Inspire			Optional	1	September	to	
F21CN	Computer Network			Optional	1	September	Dec 2023	
F21GA	3D Graphics and Ar			Optional	1	September		
F21DL	Data Mining and M			Optional	1 (2 : 1)	September		
[R			er - Register F21RP and urse if you have not re				Study1	
Į.v.	egister manaatory		arse ir you have hot re	gistered it d	uring r	iist rear or t	otadyj	
F21RP	Research Methods	Project Planning	Mandatory	1	January			
F21AS	Advanced Software	ineering	Mandatory	1	January			
F21BD	Big Data Managem	ent		Optional	1	January	Jan 2024	
F21AD	Advanced Interacti		esign	Optional	1	January	to	
F21AO	Applied Developme	ent a	nd Operations (DevOps)	Optional	1	January	Apr 2024	
F21GP	Computer Games F	rogr	amming	Optional	1	January		
F21AN	Advanced Network	Seci	urity	Optional	1	January		

May Semester – 1 Mandatory Course [Applicable to ONLY MSc Students] (Register on successful completion of 8 taught courses								
F21MP	MSc Project & Dissertation	Mandatory	1	May	Jun 2024 to Dissertation Deadline			

- Part-time students can register 1 or 2 courses per semester. Students are encouraged to meet their Personal Tutor or Programme Director if they wish to choose more than 2 courses in a semester.
- January intake students need to carefully consider their courses sequencing and are advised to consult with their Personal Tutor or Programme Director.
- Students will be eligible to register in F21RP ONLY on successful completion of 7 courses or being registered to complete 7 courses with F21RP being the 8<sup>th</sup> course in their final taught semester. For most part-time students this will be during their second year of studies.
- Students with resits may have their progression to F21MP delayed. Refer to the handbook for further details.