UNIVERSITY OF SUSSEX DEPARTMENT OF PHYSICS AND ASTRONOMY

MSC IN PHYSICS

Year of Entry

MODULE CHOICES FOR PARTICLE PHYSICS 2021-22

- Email this form at the <u>mps_pqtoffice@sussex.ac.uk</u> by Friday 24 September 2021 12 noon. If at any point you wish to change a module you must complete a new version of this form.
- Please note that the Department reserves the right to withdraw any of these modules.

Student's first name

Student's last name.....

Code	Modules	Credits	Tick here
		(Level)	
Semest	ter One		
	The following modules are recommended		
885F3	Further Quantum Mechanics	15 (7)	
890F3	Data Analysis Techniques	15 (7)	
Semest	er Two		
	The following modules are recommended		
880F3	Particle Physics Detector Technology	15 (7)	
894F3	Frontiers in Particle Physics	15 (7)	
Plus TWO of the following recommended options, at least one of which in Semester One			
898F3	Programming in C++ (Semester One)	15 (7)	
823G5	Programming through Python (Semester One)	15 (7)	
877F3	Quantum Field Theory 1 (Semester One)	15 (7)	
	STRONGLY RECOMMENDED for those taking a particle theory project		
878F3	Symmetry in Particle Physics (Semester One)	15 (7)	
900F3	Cosmology (Semester One)	15 (7)	
901F3	Beyond the Standard Model (Semester Two) PRE REQUISITE 877F3	15 (7)	
F3214	Particle Physics (Semester Two)	15 (6)	
879F3	Advanced Cosmology (Semester Two) PRE REQUISITE, 900F3	15 (7)	
865G1	Monte Carlo Simulations (Semester Two)	15 (7)	
Year			
891F3	Research Project MSc (Physics)	90 (7)	\checkmark

Note:

A recommended module can be exchanged for a different module if the supervisor considers it appropriate. If the substitute module is given by a different department then the course convenor must sign off on the module (in addition to the supervisor).

Six modules should be taken over two terms, either four in autumn and two in Semester One or three in each semester. No more than 30 credits to be taken at level 6.

You will not be allowed to change modules after week 2 of the semester that the module is given.

Supervisor/Convenor's Signature

Declaratio	on
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I understand the terms 'Collusion', 'Plagiarism' and 'Fabrication of Results' as defined in the Examination & Assessment Handbook at http://www.sussex.ac.uk/adge/standards/examsandassessment I declare that all work submitted for assessment will be solely my work and that reference to the work of others will be properly

acknowledged by me.

Student's Signature

I agree that this student can take the following module(s) that are not on the 'recommended' list above.

Supervisor's Signature

For office use only:		
Entered by:	Date:	

UNIVERSITY OF SUSSEX DEPARTMENT OF PHYSICS AND ASTRONOMY

Year of Entry

90 (7)

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MSC IN PHYSICS

MODULE CHOICES ATOMIC, MOLECULAR AND OPTICAL PHYSICS 2021-22

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- Please note that the Department reserves the right to withdraw any of these modules.

Student's first name

Student's last name

Code	Modules	Credit/	Tick here	
		Level		
Semest	er One			
The following recommended options are offered:				
885F3	Further Quantum Mechanics	15 (7)		
890F3	Data Analysis Techniques	15 (7)		
893F3	Quantum Optics and Quantum Information	15 (7)		
897F3	Atom Light Interactions	15 (7)		
898F3	Programming in C++	15 (7)		
823G5	Programming through Python	15(7)		
877F3	Quantum Field Theory 1	15(7)		
F1047	Computational Chemistry	15 (6)		
Semester Two				
The following recommended options are offered:				
893F3	Practical Quantum Technologies	15 (7)		
888F3	Electrons, Cold Atoms and Quantum Circuits PRE REQUISITE 897F3	15 (7)		
F3218	Lasers and Photonics	15 (6)		
F3231	Advanced Condensed State Physics	15 (6)		
865G1	Monte Carlo Simulations	15 (7)		
907F3	Introduction to Nano-materials and Nano-characterisation	15 (7)		
Year				

891F3 Note:

A recommended module can be exchanged for a different module if the supervisor considers it appropriate. If the substitute module is given by a different department then the course convenor must sign off on the module (in addition to the supervisor).

Six modules should be taken over two terms, either four in autumn and two in Semester One or three in each semester. No more than 30 credits to be taken at level 6.

You will not be allowed to change modules after week 2 of the semester that the module is given.

Supervisor/Convenor's Signature

Research Project (MSc Physics)

Declaration

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- I declare that all work submitted for assessment will be solely my work and that reference to the work of others will be properly acknowledged by me.

Student's Signature

I agree that this student can take the following module(s) that are not on the 'recommended' list above.

Supervisor's Signature

For office use only: Entered by:	Date:

UNIVERSITY OF SUSSEX DEPARTMENT OF PHYSICS AND ASTRONOMY

MSC IN PHYSICS MODULE CHOICES ASTRONOMY 2021-22

- *Email this form to mps_pgt@sussex.ac.uk by Friday 24 September 2021 by 12 noon. If at any point you wish to change a module you must complete a new version of this form.*
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Please note that the Department reserves the right to withdraw any of these modules.

Year of Entry Student's first name

Student's last name

Code	Modules	Credit/ Level	Tick here
Semeste	er One		
The follo	wing modules are recommended		
900F3	Cosmology	15 (7)	
889F3	Stellar and Galactic Astrophysics	15 (7)	
Semeste	er Two		
	wing modules are recommended		
902F3	Astrophysical Processes	15 (7)	
F3209	Extragalactic Astronomy	15 (6)	
	st take TWO of these recommended options		
898F3	Programming in C++ (Semester One)	15 (7)	
890F3	Data Analysis Techniques (Semester One)	15 (7)	
881F3	General Relativity (Semester One)	15 (7)	
823G5	Programming through Python (Semester One)	15 (7)	
894F3	Frontiers in Particle Physics (Semester Two) PRE REQUISITE 890F3	15 (7)	
865G1	Monte Carlo Simulations (Semester Two)	15 (7)	
879F3	Advanced Cosmology (Semester Two)	15 (7)	
All Year			
891F3	Research Project MSc (Physics)	90 (7)	
A recommended module can be exchanged for a different module if the supervisor considers it appropriate. If the substitute module is given by a different department then the course convenor must sign off on the module (in addition to the supervisor). Six modules should be taken over two semesters, either four in semester one and two in semester two, or three in each semester. No more than 30 credits to be taken at level 6. Credits must total 180. You will not be allowed to change modules after week 2 of the semester that the module is taught. Supervisor/Convenor's Signature			
Declaration:			
 I understand the terms 'Collusion', 'Plagiarism' and 'Fabrication of Results' as defined in the Examination & Assessment Handbook at <u>http://www.sussex.ac.uk/adqe/standards/examsandassessment</u> I declare that all work submitted for assessment will be solely my work and that reference to the work of others will be properly acknowledged by me. 			
Student's Signature			
I agree that this student can take the following module(s) that are not on the 'recommended' list above. Supervisor's Signature			
For office use only:			
Entered			

MSC IN PHYSICS MODULE CHOICES COSMOLOGY 2021-22

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- Please note that the Department reserves the right to withdraw any of these modules.

Student's first name

Year of Entry

Student's last name.....

Code	Modules	Credit/ Level	Tick here
Semeste	er One		
The follo	owing modules are recommended		
900F3	Cosmology	15 (7)	
881F3	General Relativity	15 (7)	
877F3	Quantum Field Theory 1	15 (7)	
Semester Two			
	owing modules are recommended		
879F3	Advanced Cosmology	15 (7)	
	st take TWO of these recommended options, at least one of which should be in the Spring Seme		
889F3	Stellar and Galactic Astrophysics (Semester One)	15 (7)	
898F3	Programming in C++ (Semester One)	15 (7)	
890F3	Data Analysis Techniques (Semester One)	15 (7)	
885F3	Further Quantum Mechanics (Semester One) *STRONGLY RECOMMENDED if you do not have a strong enough background in this area*	15 (7)	
823G5	Programming through Python (Semester One)	15 (7)	
894F3	Frontiers in Particle Physics (Semester Two)	15 (7)	
902F3	Astrophysical Processes (Semester Two)	15 (6)	
F3209	Extragalactic Astronomy (Semester Two)	15 (6)	
882F3	Quantum Field Theory 2 (Semester Two) PRE REQUISITES: 877F3, 885F3	15 (7)	
865G1	Monte Carlo Simulations (Semester Two)	15 (7)	
All Year			
891F3	Research Project MSc (Physics)	90 (7)	
Note: A recommended module can be exchanged for a different module if the supervisor considers it appropriate. If the substitute module is given by a different department then the course convenor must sign off on the module (in addition to the supervisor). Six modules should be taken over two semesters, either four in semester one and two in semester two, or three in each semester. No more than 30 credits to be taken at level 6. Credits must total 180. You will not be allowed to change modules after week 2 of the semester that the module is taught.			
Supervisor/Convenor's Signature			
Declaration:			
 I understand the terms 'Collusion', 'Plagiarism' and 'Fabrication of Results' as defined in the Examination & Assessment Handbook at http://www.sussex.ac.uk/adge/standards/examsandassessment I declare that all work submitted for assessment will be solely my work and that reference to the work of others will be properly acknowledged by me. Student's Signature 			
Supervisors I agree that this student can take the following module/s that are not on the 'recommended' list above:			

Supervisor's Signature

For office use only:Entered by:	Date: