Section 2 - I	Module Spe	ecification				
Module Title	Systems Neur	oscience			Module	Code BMD265
redit Value	15 Le	evel 5	Mode of Delivery	On Campus	Semester	Semester 2
Pre-requisite	modules	Co-red	quisite modules	Overlapping m	nodules	
Human A Cellular Neu Biomedical P	Neuroanatom natomy SBC10 or and Molecular proscience, Physiology I SBS or Behaviour SBC1	5022				
•	scription of th		s it will appear in the	Module Directory a	and on the Stude	ent Information
organisation a Students will ga neurons, immu	nd planning of ain understand unohistochemi	movement, vis ling of techniqu stry and extra-	integrated systems whicl sual processing, smell an ues used in systems neuro cellular electrophysiolog apparatus, collecting and	d taste perception, co oscience including tra y. Practical sessions a	ognition, learning ct tracing of intera	and memory. acting groups of
2) Module A Specify the a		odule, i.e. the	e broad educational p	urposes for offerin	g this module.	
gained in earlie organised natu appreciation o	er modules will are but also the f research app	be developed in e complexity of roaches and te	arious functional systems in context of the neuroph f the motor, sensory, aut echniques used to study t ied in humans and other	ysiology of each syste onomic and limbic sy hese integrated syste	em. The module ai stems. Students v	ms to highlight the vill gain an

3) Learning Outcomes

Identify the learning outcomes for this module, i.e. knowledge, skills and attributes to be developed through completion of this module. Outcomes should be referenced to the relevant QAA benchmark statements and the <a href="Framework for Higher Education Qualifications in England, Wales and Northern Ireland (2008). The SEEC Credit Level Descriptors for Further and Higher Education 2003 and Queen Mary Statement of Graduate Attributes should also be used as a guiding framework for curriculum design.

Acad	Academic Content:				
A 1	Show critical understanding of different integrated systems controlling behaviour and cognition				
A 2	Delineate the organisation of different functional systems				
A 3	Evaluate current evidence relating structure to function of these systems				
A 4	Show systematic understanding of research methodologies used to analyse functional groups of neurons				

Disciplinary Skills - able to:			
B 1	Identify and appraise experimental methods used in systems-based approaches and comment on their appropriate use.		
B 2	Record data accurately and carry out quantitative data analysis		
В3	Critically evaluate scientific literature and interpret findings		
B 4	Identify conceptual arguments derived from scientific evidence		
В 5	Display skills in synthesising information and disseminating by oral and written		

Attril	Attributes:		
C 1	Acquire knowledge of scientific research methods and their application in neuroscience		
C 2	Participate constructively as a member of a group/team		
С3	Communicate effectively to varied audiences by written and verbal means.		
C 4	Apply knowledge of experimental design and analytic skills in research experimentation		
C 5	Have intellectually curiosity to continually learn from diverse sources of information		

4) Reading List

Provide an indicative reading list for the module. This should include key texts and/or journals but <u>should not</u> be an exhaustive list of materials.

The Nervous System, 2nd Ed., Churchill Livingstone Elsevier, AT Michael-Titus, PA Revest, PJ Shortland, London, 2010

Neuroscience (5th ed 2012), Purves, D., Augustine, G. J., Fitzpatrick, D., Hall, W. C., LaMantia, A.-S., McNamara, J. O. and White, L. E. Sinauer Associates, Inc., Sunderland, Massachusetts

Students will also be provided with selected review articles, classic and contemporary subject-related research articles.

5) Teaching and Learning Profile

Provide details of the method of delivery (lectures, seminars, fieldwork, practical classes, etc.) used to enable the achievement of learning outcomes and an indicative number of hours for each activity to give an overall picture of the workload a student taking the module would be expected to undertake. This information will form the Key Information Set for each undergraduate programme and will be used to populate the KIS widget found on the QMUL programme information pages. More information can be found online about KIS. You may also wish to refer to the QAA guidance on contact hours when completing this section.

Activity Type	KIS Category	Time Spent (in hours)
Lecture	Scheduled	22
Practical Classes and workshops	Scheduled	9
Guided independent study	Independent	119
	150	

Specify the total module notional study hours. This should be a total of the hours given for each activity. The notional study hours for each academic credit point is 10. A 15 credit point module therefore represents 150 notional study hours.

Activity Type	Total Time Spent (in hours)	Percentage of Time Spent
Scheduled learning and teaching	31	20
Placement		
Independent Study	108	80
Total	139	100

Use the information provided in the box above to specify the total time spent and the percentage time spent in each category of teaching and learning activity.

6) Assessment Profile

Provide details of the assessment methods used to assess the achievement of learning outcomes.

Description of Assessment	Assessment Type	KIS Category	Duration / Length	% Weighting	Final element of assessment?	Qualifying Mark
Examination	Written Exam	Written	2.5hrs	75		40
Coursework	Practical Skills assessment	Practical	3x1000 words	25		N/A

Final element of assessment: The assessment that takes place last. There should normally be only one element of assessment marked as final unless two assessment or submission dates occur on the same day.

Qualifying mark: A specified minimum mark that must be obtained in one or more elements of assessment in order to pass a module. This is in addition to, and distinct from, the requirement to achieve a pass in the module mark to pass the module.

Reassessment

Provide details of the reassessment methods used, specifying whether reassessment is either standard reassessment or synoptic reassessment.

 Standard Reassessment 	 Synoptic Reassessment
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Synoptic reassessment details (if you ha	ave indicated synoptic reassessr	ment above, please give details
Brief Description of Assessment	Assessment Type	Duration / Length of Examination / Coursework
	Written Exam	2.5hrs
	Written Exam	
	Written Exam	

Section 3 - Alternative Assessment Arrangements for Associate Students

This section must only be completed if the module will be made available to associate students in Semester A and where the credit value of the "associate" version is the same as for the main version, and the main version is assessed by exam in May which is not available to the associate students. All other aspects of the module specification remain the same as indicated in Section 2 above. To add alternative assessment arrangements please click 'Add Alternative Assessment'.

Section 4a - Half Module for Associate Students (for a half module to be taught in Semester A)

This section must be completed if the proposed module will take place over 2 semesters but will be made available to single-semester associate students in a half-credit format in <u>Semester A.</u> Modules worth less than 30 credits taken over 2 semesters may not be made available in a half-credit format. To add details for the half module please click 'Add Half Module (Semester A)'.

Section 4b - Half Module for Associate Students (for a half module to be taught in Semester B)

This section must be completed if the proposed module will take place over 2 semesters but will be made available to single-semester associate students in a half-credit format in <u>Semester B.</u> Modules worth less than 30 credits taken over 2 semesters may not be made available in a half-credit format. To add details for the half module please click 'Add Half Module (Semester B)'.