Section 2 -	Module Specifi	cation			
Module Title	Systems Neuroscie	nce		Module	Code BMD265
Credit Value	15 Level	5 Mode of Delivery	On Campus	Semester	Semester 2
Pre-requisite	modules	Co-requisite modules	Overlapping modu	ıles	
(BMD26	1 OR BMD113) AND				
(BMD12	21 OR PSY121)				
	•	odule, as it will appear in the N	lodule Directory and	on the Stude	ent Information
organisation a Students will g neurons, immu	nd planning of move ain understanding o unohistochemistry a	erview of integrated systems which ement, visual processing, smell and f techniques used in systems neuro and extra-cellular electrophysiology ts, using apparatus, collecting and in	taste perception, cogni science including tract tr . Practical sessions and	tion, learning a	and memory. cting groups of
2) Module A Specify the a		e, i.e. the broad educational pu	rposes for offering th	is module.	
gained in earlie organised natu appreciation o	er modules will be de ure but also the com f research approach	edge of various functional systems eveloped in context of the neurophy plexity of the motor, sensory, autones and techniques used to study the r, as studied in humans and other o	rsiology of each system. nomic and limbic system lese integrated systems	The module ai ns. Students w	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 <a href="QAA benchmark statements">QAA benchmark statements</a> and the <a href="Framework for Higher Education Qualifications in England, Wales and Northern Ireland (2008)</a>. The <a href="SEEC Credit Level Descriptors for Further and Higher Education 2003">SEEC Credit Level Descriptors for Further and Higher Education 2003</a> and <a href="Queen Mary Statement of Graduate Attributes">Queen Mary Statement of Graduate Attributes</a> 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				

Disc	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				
B 5	Display skills in synthesising information and disseminating by oral and written				

Attrib	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			
C 3	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 should not 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
	Total	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	I DIDMONT OF	Qualifying Mark
Examination	Written Exam	Written	2hrs	50		
Essay (In- Class Test)	Written assignment (1000 words)	Practical	1h	20		
Data interpretation written report	In class assessment	Practical	1h	30		

**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.

<ul> <li>Standard Reassessment</li> </ul>	•	Syno	ptic Reassessme	nt
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Brief Description of Assessment	Assessment Type	Duration / Length of Examination / Coursewo
	Written Exam	2hrs
	Written Exam	
	Written Exam	

## Section 3 - Alternative Assessment Arrangements for Associate Students

This section <u>must only</u> 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 <a href="Semester A">Semester A</a>. 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 <a href="Semester B">Semester B</a>. 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)'.