

INP DOCTOR OF NEUROSCIENCE COORDINATOR: Assoc Prof. Muzaimi Mustapha (mmuzaimi@usm.my; Ext: 6309)

INP MASTER OF NEUROSCIENCE COORDINATOR: Dr. Sabarisah Hashim (risha@usm.my; Ext: 6347)

WEEK	DATES	AM (ONLINE CLASS)	PM (ONLINE CLASS)		
1	10/10/21 - 14/10/21	GIN 610 (Statistics)	GIN 602 (Neurobiology)		
2	17/10/21 - 21/10/21	GIN 611 (Research Integrity)			
3	24/10/21 - 28/10/21	GIN 601 (Cellular & Molecular Biology)	GIN 603 (Neuroanatomy)		
4	31/10/21 - 04/11/21				
5	07/11/21 - 11/11/21				
6	14/11/21 - 18/11/21				
7	21/11/21 - 25/11/21	GIN 604 (Neurophysiology)	GIN 608 (Behavioural Science)		
8	26/11/21 - 04/12/21			MID-SEMESTER BREAK	
9	05/12/21 - 09/12/21				
10	12/12/21 - 16/12/21	GIN 607 (Neural Science)	GIN 608 (Behavioural Science)		
11	19/12/21 - 23/12/21				
12	26/12/21 - 30/12/21	GIN 607 (Neural Science)	GIN 608 (Behavioural Science)		
13	02/01/22 - 06/01/22				
14	09/01/22 - 13/01/22				
15	16/01/22 - 20/01/22	GIN 607 (Neural Science)	GIN 608 (Behavioural Science)		
16	23/01/22 - 29/01/22			REVISION WEEK	
17 - 19	30/01/22 - 19/02/22	EXAMINATION WEEKS			
20 - 23	20/02/22 - 19/03/22	INTER-SEMESTER BREAK			

COURSE CODES:
 GIN 610: Basic Statistics
 GIN 611: Research Integrity
 GIN 601: Cellular & Molecular Biology
 GIN 602: Neurobiology
 GIN 603: Neuroanatomy
 GIN 604: Neurophysiology
 GIN 607: Neural Science
 GIN 608: Behavioural Science
 GIN 600: Dissertation**
 GIN 700: Doctoral Thesis**

COURSE COORDINATORS:
 GIN 610: Dr. Kueh Yee Cheng
 GIN 611: Dr. Sabarisah Hashim
 GIN 601: Dr. Farizan Ahmad
 GIN 602: Dr. Ahmad Tarmizi Che Has
 GIN 603: Dr. Mohd Nor Azim Ab. Patar
 GIN 604: Dr. Tahamina Begum
 GIN 607: Dr. Faruque Reza
 GIN 608: Dr. Mohd Nasir Che Mohd Yusoff
 GIN 600: Dr. Mohd Nasir Che Mohd Yusoff
 GIN 700: Prof Madya. Muzaimi Mustapha

**GIN 600 – in the current Semester, this course is applicable only for existing INP Master of Neuroscience candidates (due for viva voce examination).

**GIN 700 – in the current Semester, this course is applicable only for existing INP Doctor of Neuroscience candidates (due for viva voce examination).



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A. IMPORTANT DEADLINES:

DEADLINE - GIN600 (DISSERTATION) SUBMISSION	:	02 Dec 2021**
<ul style="list-style-type: none"> • Notice of Dissertation Submission & Examiners Nomination • Masters' Dissertation Submission 		** (Viva voce examination will be within 2 months of this deadline)







B. IMPORTANT (ONLINE) EXAMINATION DATES:

• GIN610 Paper	Statistics	:	30 Jan 2022
• GIN611 Paper	Research Integrity	:	31 Jan 2022
• GIN601 Paper 1	Cellular & Molecular Biology	:	06 Feb 2022
• GIN601 Paper 2		:	06 Feb 2022
• GIN602 Paper 1	Neurobiology	:	08 Feb 2022
• GIN602 Paper 2		:	08 Feb 2022
• GIN603 Paper 1	Neuroanatomy	:	10 Feb 2022
• GIN603 Paper 2		:	10 Feb 2022
• GIN604 Paper 1	Neurophysiology	:	13 Feb 2022
• GIN604 Paper 2		:	13 Feb 2022
• GIN607 Paper 1	Neural Science	:	15 Feb 2022
• GIN607 Paper 2		:	15 Feb 2022
• GIN608 Paper 1	Behavioural Science	:	17 Feb 2022
• GIN608 Paper 2		:	17 Feb 2022

C. CONTINUOUS ASSESSMENT DATES AND/OR COURSEWORK DEADLINES:

NOTE: In addition to the dates above, please observe other specific deadline(s) for any coursework(s) as instructed by the respective lecturer(s).

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Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 10/10/21		GIN610 (L) Stats 101 SAAH	GIN610 (T) Stats 101 SAAH	Self-Study				GIN602 (L) NeuBio 011 MAP	Self-Study
Mon 11/10/21		GIN610 (T) Stats 102 SAAH		Self-Study				GIN602 (L) NeuBio 012 ATCH	GIN602 (L) NeuBio 012 ATCH
Tues 12/10/21		GIN610 (L) Stats 103 AKG	GIN610 (T) Stats 103 AKG	Self-Study				GIN602 (L) NeuBio 013 IL	GIN602 (L) NeuBio 013 IL
Wed 13/10/21		GIN610 (L) Stats 104 KYC	GIN610 (T) Stats 104 KYC	Self-Study				GIN602 (L) NeuBio 014 MHS	GIN602 (L) NeuBio 014 MHS
Thurs 14/10/21	CPC (Z) (DK4)		GIN610 (L) Stats 106 SAAH	GIN610 (T) Stats 106 SAAH	Self-Study			GIN602 (T) NeuBio 012 & 013 ATCH	Self-Study

(L = Lecture series; T = Tutorial and/or Practical; S = Student Assignment, Presentation and/or Journal Club; Z = Activity unrelated to INP, not compulsory)

INF 1 Course Code : GIN610 (Basic & Applied Statistics)
 Course Coordinator : Dr.Kueh Yee Cheng
yckueh@usm.my; Ext: 6159)







INF 1 Course Code : GIN602 (Neurobiology)
 Course Coordinator : Dr. Ahmad Tarmizi Che Has
mizi.chehas@gmail.com; Ext: 6320)

Topics:
 Stats101 – Introduction to Biostatistics / Stats102 – Getting started with SPSS / Stats103 – Hypothesis Testing & Estimation / Stats104 – Univariate Analysis Of Numerical Data / Stats105 – Non Parametric test / Stats106 – Univariate Analysis Of Categorical Data / Stats107 – Correlation & Simple Linear Regression

Topics:
 NeuBio011 – Introduction to neurobiology / NeuBio012 – Membrane and resting potential: the ionic basis / NeuBio013 – Action potential, ion channels and pumps / NeuBio014– Synaptic transmission



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Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 17/10/21		GIN610 (L) Stats 107 AKG	GIN610 (T) Stats 107 AKG	Self-Study				GIN602 (T) NeuBio 014 MHS	Self-Study
Mon 18/10/21		GIN610 (L) Stats 105 KYC	GIN610 (T) Stats 105 KYC	Self-Study				GIN602 (L) NeuBio 015 FR	GIN602 (L) NeuBio 015 FR
Tues 19/10/21	HOLIDAY – PROPHET MUHAMMAD (PBUH) BIRTHDAY						HOLIDAY – PROPHET MUHAMMAD (PBUH) BIRTHDAY		
Wed 20/10/21		GIN611 (L) RInteg 101 NAY	GIN611 (L) RInteg 101 NAY	Self-Study				GIN602 (L) NeuBio 016 FR	GIN602 (L) NeuBio 016 FR
Thurs 21/10/21	CPC (Z) (DK4)		GIN611 (L) RInteg 102 HANS	GIN611 (L) RInteg 102 HANS	Self-Study			GIN602 (T) NeuBio 015 & 016 FR	Self-Study

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INF 1 Course Code : GIN611 (Research Integrity)
 Course Coordinator : Dr. Sabarisah Hashim
risha@usm.my ; Ext: 7551

Topics:

RInteg101 – Ethics in research / RInteg102 – Issues with consent
 RInteg103 – Privacy and confidentiality / RInteg104 – Justice in research /
 RInteg105 – Science and society / RInteg106 – Ethical issues in biotechnological
 era: (a) genetic studies; (b) animal studies







INF 1 Course Code : GIN602 (Neurobiology)
 Course Coordinator : Dr. Ahmad Tarmizi Che Has
mizi.chehas@gmail.com; Ext: 6320

Topics:

NeuBio014– Synaptic transmission / NeuBio015– Pre-synaptic mechanisms /
 NeuBio016– Post-synaptic mechanisms



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Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 24/10/21		GIN611 (L) Rinteg 103 NAY	GIN611 (L) Rinteg 103 NAY	Self-Study				GIN602 (S) NeuBio 015, 016 & 017 MM	Self-Study
Mon 25/10/21		GIN611 (L) Rinteg 104 NAAH	GIN611 (L) Rinteg 104 NAAH	Self-Study				GIN602 (L) NeuBio 017 MM	GIN602 (L) NeuBio 017 MM
Tues 26/10/21		GIN611 (L) Rinteg 105 SH	GIN611 (L) Rinteg 105 SH	Self-Study				GIN602 (L) NeuBio 018 JMA	GIN602 (L) NeuBio 018 JMA
Wed 27/10/21		GIN611 (L) Rinteg 106 (a) MM	Self-Study	GIN611 (L) Rinteg 106 (b) SJ	Self-Study			GIN602 (L) NeuBio 019 JMA	GIN602 (L) NeuBio 019 JMA
Thurs 28/10/21	CPC (Z) (DK4)		GIN611 (S) Rinteg 106 SJ	Self-Study				GIN602 (L) NeuBio 020 MM	GIN602 (L) NeuBio 020 MM

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Course Coordinator : Dr. Sabarisah Hashim
(risha@usm.my ; Ext: 7551)

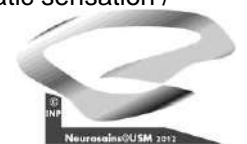
Topics:

Rinteg101 – Ethics in research / Rinteg102 – Issues with consent
Rinteg103 – Privacy and confidentiality / Rinteg104 – Justice in research /
Rinteg105 – Science and society / Rinteg106 – Ethical issues in biotechnological era: (a) genetic studies; (b) animal studies







INF 1 Course Code : GIN602 (Neurobiology)
Course Coordinator : Dr. Ahmad Tarmizi Che Has
(mizi.chehas@gmail.com; Ext: 6320)

Topics:

NeuBio015– Pre-synaptic mechanisms / NeuBio016– Post-synaptic mechanisms /
NeuBio017– Synaptic plasticity / NeuBio018– Introduction to movement /
NeuBio019 – Introduction to sensation / NeuBio020 – Somatic sensation /
NeuBio021 – Vision



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Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 31/10/21		GIN601 (L) CMBio 011 ZM	GIN601 (L) CMBio 011 ZM	Self-Study				GIN602 (L) NeuBio 021 TB	GIN602 (L) NeuBio 021 TB
Mon 01/11/21		GIN601 (L) CMBio 012 ZM	GIN601 (L) CMBio 012 ZM	Self-Study				GIN602 (L) NeuBio 022 FR	GIN602 (L) NeuBio 022 FR
Tues 02/11/21		GIN601 (L) CMBio 013 LSY	GIN601 (L) CMBio 013 LSY	Self-Study				GIN602 (L) NeuBio 023 ZZ	GIN602 (L) NeuBio 024 MM
Wed 03/11/21		GIN601 (L) CMBio 014 AAMY	GIN601 (L) CMBio 014 AAMY	Self-Study				GIN602 (L) NeuBio 025 TB	GIN602 (L) NeuBio 025 TB
Thurs 04/11/21	HOLIDAY – DEEPAVALI						HOLIDAY – DEEPAVALI		

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INF 1 Course Code : GIN601 (Cellular & Molecular Biology)
 Course Coordinator : Dr. Farizan Ahmad
 (farizanahmad@usm.my ; Ext: 6312)

Topics:

CMBio011 – Cell overview: structure, function and chemistry / CMBio012 – Cell membrane: structure and transport / CMBio013 – Intracellular compartments and transport / CMBio014 – Cellular metabolism and respiration







INF 1 Course Code : GIN602 (Neurobiology)
 Course Coordinator : Dr. Ahmad Tarmizi Che Has
 (mizi.chehas@gmail.com; Ext: 6320)

Topics:

NeuBio022 – Olfaction / NeuBio023 – Vestibulo-cochlear / NeuBio024 – Language and attention / NeuBio025 – Memory and cognition



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Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 07/11/21		GIN601 (L) CMBio 015 SY	GIN601 (L) CMBio 015 SY		GIN601 (S) CMBio 011, 012 & 013 LSY			GIN602 (S) NeuBio 021, 022 & 023 TB	Self-Study
Mon 08/11/21		GIN601 (L) CMBio 016 SS	GIN601 (L) CMBio 016 SS	Self-Study				GIN603 (L) NeuAnat 011 ZAI	GIN603 (L) NeuAnat 011 ZAI
Tues 09/11/21		GIN601 (L) CMBio 017 SNMN	GIN601 (L) CMBio 017 SNMN	Self-Study				GIN603 (L) NeuAnat 012 (a) ZM	Self-Study
Wed 10/11/21		GIN601 (L) CMBio 018 MAP	GIN601 (L) CMBio 018 MAP	Self-Study	GIN601 (T) CMBio 014 & 015 SY			GIN603 (L) NeuAnat 012 (b) AAS	GIN603 (L) NeuAnat 012 (c) FK
Thurs 11/11/21	HOLIDAY – SULTAN KELANTAN'S BIRTHDAY						HOLIDAY – SULTAN KELANTAN'S BIRTHDAY		

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INF 1 Course Code : GIN601 (Cellular & Molecular Biology)
Course Coordinator : Dr. Farizan Ahmad
 (farizanahmad@usm.my ; Ext: 6312)

Topics:

CMBio015 – Cell cytoskeleton: structure and regulation / CMBio016 – Amino acids, protein structure and function / CMBio017 – Nucleic acids, molecular structure and function of genes / CMBio018 – Gene expression I: Transcription and post-transcription modification







INF 1 Course Code : GIN603 (Neuroanatomy)
Course Coordinator : Dr. Mohd Nor Azim Ab. Patar
 (azim.patar@gmail.com; Ext: 6351)

Topics:

NeuAnat011 – An invertebrate and vertebrate simple nervous system / NeuAnat012 – A mammalian nervous system: a) organisation, b) histology and c) development / NeuAnat013 – Neurocytology: neurons and glia



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Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 14/11/21		GIN601 (L) CMBio 019 MAP	GIN601 (L) CMBio 019 MAP		GIN601 (S) CMBio 014, 015 & 016 AAMY			GIN603 (L) NeuAnat 013 MAP	GIN603 (L) NeuAnat 013 MAP
Mon 15/11/21		GIN601 (L) CMBio 020 MFJ	GIN601 (L) CMBio 020 MFJ	ZM	GIN603 (S) NeuAnat 012			GIN603 (L) NeuAnat 014 MM	GIN603 (L) NeuAnat 014 MM
Tues 16/11/21		GIN601 (L) CMBio 021 FA	GIN601 (L) CMBio 022 FA	Self-Study				GIN603 (S) NeuAnat 013 & 014 MAP	Self-Study
Wed 17/11/21		GIN601 (T) CMBio 017 SNMN	Self-Study	GIN601 (T) CMBio 020 MFJ	Self-Study			GIN603 (T) NeuAnat 014 MM	Self-Study
Thurs 18/11/21	CPC (Z) (DK4)		GIN601 (S) CMBio 018 & CMBio 019 MAP	Self-Study				GIN603 (L) NeuAnat 015 AHI	GIN603 (L) NeuAnat 015 AHI

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INF 1 Course Code : GIN601 (Cellular & Molecular Biology)
 Course Coordinator : Dr. Farizan Ahmad
 (farizanahmad@usm.my ; Ext: 6312)

INF 1 Course Code : GIN603 (Neuroanatomy)
 Course Coordinator : Dr. Mohd Nor Azim Ab. Patar
 (azim.patar@gmail.com; Ext: 6351)

Topics:







CMBio018 – Gene expression I: Transcription and post-transcription modification /
 CMBio019 – Gene expression II: Translation, protein processing and degradation /
 CMBio020 – Cell nucleus and control of gene expression / CMBio021 – Overview of
 methods in genomics / CMBio022 – Overview of methods in proteomics

Topics:

NeuAnat012 – A mammalian nervous system: organisation, histology and development /
 NeuAnat013 – Neurocytology: neurons and glia / NeuAnat014 – Overview of the
 central and peripheral nervous systems / NeuAnat015 – Overview of the tracts of the
 spinal cord and brainstem



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Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 21/11/21		GIN601 (S) CMBio 021 & 022 FA		Self-Study			GIN603 (L) NeuAnat 016 SAH	GIN603 (L) NeuAnat 016 SAH	
Mon 22/11/21		GIN601 (L) CMBio 023 NZMY	GIN601 (L) CMBio 023 NZMY	Self-Study			GIN603 (L) NeuAnat 017 MHH	GIN603 (L) NeuAnat 017 MHH	
Tues 23/11/21		GIN601 (L) CMBio 024 ZM	GIN601 (L) CMBio 024 ZM	Self-Study			GIN603 (S) NeuAnat 014 & 015 MHH		Self-Study
Wed 24/11/21		GIN601 (L) CMBio 025 ZM	GIN601 (L) CMBio 025 ZM	Self-Study			GIN603 (T) NeuAnat 017 MHH	Self-Study	
Thurs 25/11/21	CPC (Z) (DK4)		GIN601 (S) CMBio 023 NZMY	Self-Study			GIN603 (L) NeuAnat 018 MHH	GIN603 (L) NeuAnat 018 MHH	

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INF 1 Course Code : GIN601 (Cellular & Molecular Biology)
 Course Coordinator : Dr. Farizan Ahmad
farizanahmad@usm.my ; Ext: 6312)

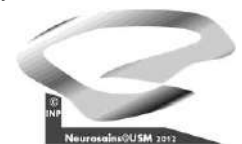
Topics:

CMBio021 – Overview of methods in genomics / CMBio022 – Overview of methods in proteomics/ CMBio023 – Cell cycle: mitosis and meiosis / CMBio024 – Cell signaling and signal transduction / CMBio025 – Apoptosis

INF 1 Course Code : GIN603 (Neuroanatomy)
 Course Coordinator : Dr. Mohd Nor Azim Ab. Patar
azim.patar@gmail.com ; Ext: 6351)




Topics:

NeuAnat014 – Overview of the central and peripheral nervous systems / NeuAnat015 – Overview of the tracts of the spinal cord and brainstem / NeuAnat016 – Sensation and sensory pathways / NeuAnat017 – Movement and motor pathway / NeuAnat018 – Overview of autonomic nervous system











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Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00	
Fri 26/11/21	MID-SEMESTER BREAK						SEMESTER BREAK			
Sat 27/11/21										
Sun 28/11/21 to Sat 04/12/21										  
	MID-SEMESTER BREAK						SEMESTER BREAK			

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Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00	
Sun 05/12/21		GIN604 (L) NeuPhysio 011 TB	Self-Study					GIN603 (L) NeuAnat 019 MAP	GIN603 (L) NeuAnat 019 MAP	
Mon 06/12/21		GIN604 (L) NeuPhysio 012 MM	GIN604 (L) NeuPhysio 012 MM	Self-Study				GIN603 (L) NeuAnat 020 MAP	GIN603 (L) NeuAnat 020 MAP	
Tues 07/12/21		GIN604 (S) NeuPhysio 011 & 012 MM		Self-Study				GIN603 (L) NeuAnat 021 ZAI	GIN603 (L) NeuAnat 021 ZAI	
Wed 08/12/21		GIN604 (L) NeuPhysio 013 ATCH	GIN604 (L) NeuPhysio 013 ATCH	Self-Study				GIN603 (L) NeuAnat 022 ZIM	GIN603 (L) NeuAnat 022 ZIM	
Thurs 09/12/21	CPC (Z) (DK4)		GIN604 (T) NeuPhysio 013 ATCH (BPSP2)	Self-Study				Self-Study		

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INF 2 Course Code : GIN604 (Neurophysiology)
 Course Coordinator : Dr. Tahamina Begum
 (tahamina@usm.my; Ext: 6315)

Topics:

NeuPhysio011 – Basic concepts of cellular neurophysiology / NeuPhysio012 – Passive electrical properties of neurons / NeuPhysio013 – Action potentials







INF 1 Course Code : GIN603 (Neuroanatomy)
 Course Coordinator : Dr. Mohd Nor Azim Ab. Patar
 (azim.patar@gmail.com; Ext: 6351)

Topics:

NeuAnat019 – Blood brain barrier / NeuAnat020 – Ventricular system / NeuAnat021 – Human brain mapping / NeuAnat022 – Techniques in neuroanatomy



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Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 12/12/21		GIN604 (L) NeuPhysio 014 FR	GIN604 (L) NeuPhysio 014 FR	Self-Study				GIN608 (L) NeuBehav 011 MNMV	GIN608 (L) NeuBehav 011 MNMV
Mon 13/12/21		GIN604 (T) NeuPhysio 014 FR	Self-Study					GIN608 (L) NeuBehav 012 TB	GIN608 (L) NeuBehav 012 TB
Tues 14/12/21		GIN604 (L) NeuPhysio 015 ATCH	GIN604 (L) NeuPhysio 015 ATCH	Self-Study				GIN608 (L) NeuBehav 013 TB	GIN608 (L) NeuBehav 013 TB
Wed 15/12/21		GIN604 (S) NeuPhysio 015 ATCH		Self-Study				GIN608 (L) NeuBehav 014 MF	GIN608 (L) NeuBehav 014 MF
Thurs 16/12/21	CPC (Z) (DK4)		Self-Study					GIN608 (S) NeuBehav 012 & 013 TB	Self-Study

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INF 2 Course Code : GIN604 (Neurophysiology)
Course Coordinator : Dr. Tahamina Begum
(tahamina@usm.my; Ext: 6315)

Topics:
 NeuPhysio014 – Voltage-gated ion channel families / NeuPhysio015 – Ligand-gated ion channel families

INF 2 Course Code : GIN608 (Behavioural Science)
Course Coordinator : Dr. Mohd Nasir Che M.Yusoff
(nasirff@usm.my; Ext: 6317)

Topics:
 NeuBehav011 – Psychology of learning and memory / NeuBehav012 – Episodic and semantic memory / NeuBehav013 – Working memory and executive control / NeuBehav014 – Non-associative learning

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Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 19/12/21		GIN604 (L) NeuPhysio 016 ATCH	GIN604 (L) NeuPhysio 016 ATCH	Self-Study				GIN608 (L) NeuBehav 014 MF	GIN608 (L) NeuBehav 014 MF
Mon 20/12/21		GIN604 (L) NeuPhysio 017 JMA	GIN604 (L) NeuPhysio 017 JMA	Self-Study				GIN608 (L) NeuBehav 015 MAAI	GIN608 (L) NeuBehav 015 MAAI
Tues 21/12/21		GIN604 (S) NeuPhysio 017 JMA		Self-Study				GIN608 (L) NeuBehav 016 RH	GIN608 (L) NeuBehav 016 RH
Wed 22/12/21		GIN604 (L) NeuPhysio 018 TB	GIN604 (L) NeuPhysio 018 TB	Self-Study				GIN608 (T) NeuBehav 016 MM	Self-Study
Thurs 23/12/21	CPC (Z) (DK4)		GIN604 (L) NeuPhysio 019 AIF	Self-Study			Self-Study		

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INF 2 Course Code : GIN604 (Neurophysiology)
Course Coordinator : Dr. Tahamina Begum
(tahamina@usm.my; Ext: 6315)

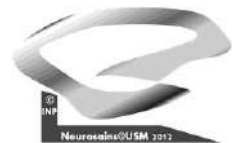
Topics:

NeuPhysio016 – Metabotropic synaptic receptors and second messengers /
 NeuPhysio017 – Long term potentiation and depression / NeuPhysio018 –
 Mechanoreceptors and hearing / NeuPhysio019 – Photoreceptors / NeuPhysio020
 – Olfactory and gustatory receptors / NeuPhysio021 – Techniques in cellular







INF 2 Course Code : GIN608 (Behavioural Science)
Course Coordinator : Dr. Mohd Nasir Che M.Yusoff
(nasirff@usm.my; Ext: 6317)

Topics:

NeuBehav014 – Non-associative learning / NeuBehav015 – Skill learning
 / NeuBehav016 – Classical conditioning



INP MASTER OF NEUROSCIENCE COORDINATOR: Dr. Sabarisah Hashim (risa@usm.my; Ext: 6347)

Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 26/12/21	<i>HOLIDAY – DAY-IN-LIEW (CHRISTMAS)</i>						<i>HOLIDAY – DAY-IN-LIEW (CHRISTMAS)</i>		
Mon 27/12/21		GIN604 (L) NeuPhysio 020 MM	<i>Self-Study</i>		GIN604 (S) NeuPhysio 019 & 020 MM			GIN608 (L) NeuBehav 017 ZH	GIN608 (L) NeuBehav 017 ZH
Tues 28/12/21		GIN604 (L) NeuPhysio 021 ATCH	GIN604 (L) NeuPhysio 021 ATCH	<i>Self-Study</i>				GIN608 (T) NeuBehav 017 ZH	<i>Self-Study</i>
Wed 29/12/21		GIN607 (L) NeuSci 011 TB	GIN607 (L) NeuSci 011 TB	<i>Self-Study</i>				GIN608 (L) NeuBehav 018 MNMV	GIN608 (L) NeuBehav 018 MNMV
Thurs 30/12/21	CPC (Z) (DK4)			GIN607 (L) NeuSci 012 ATCH	GIN607 (L) NeuSci 012 ATCH	<i>Self-Study</i>		<i>Self-Study</i>	

(L = Lecture series; T = Tutorial and/or Practical; S = Student Assignment, Presentation and/or Journal Club; Z = Activity unrelated to INP, not compulsory)

INF 2 Course Code : GIN607 (Neural Science)

Course Coordinator : Dr. Faruque Reza

(faruque@usm.my; Ext: 6316)

Topics1

NeuSci011 – Overview of neural mechanisms of learning and memory / NeuSci012 – Long-term potentiation: induction, expression and late phase

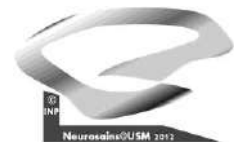
INF 2 Course Code : GIN608 (Behavioural Science)

Course Coordinator : Dr. Mohd Nasir Che M.Yusoff







(nasirff@usm.my; Ext: 6317)

Topics:

NeuBehav017 – Instrumental (Operant) conditioning / NeuBehav018 – Emotional learning and memory



INP MASTER OF NEUROSCIENCE COORDINATOR: Dr. Sabarisah Hashim (risha@usm.my; Ext: 6347)

Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00	
Sun 02/01/22		GIN607 (S) NeuSci 011 TB	Self-Study					GIN608 (L) NeuBehav 019 MZMN	GIN608 (L) NeuBehav 019 MZMN	
Mon 03/01/22		GIN607 (L) NeuSci 013 FR	GIN607 (L) NeuSci 013 FR	Self-Study				GIN608 (S) NeuBehav 019 MZMN	Self-Study	
Tues 04/01/22		GIN607 (S) NeuSci 013 FR	Self-Study					GIN608 (L) NeuBehav 020 MM	GIN608 (L) NeuBehav 020 MM	
Wed 05/01/22		GIN607 (L) NeuSci 014 JMA	GIN607 (L) NeuSci 014 JMA	Self-Study				GIN608 (S) NeuBehav 020 MM	Self-Study	
Thurs 06/01/22	CPC (Z) (DK4)		Self-Study					Self-Study		

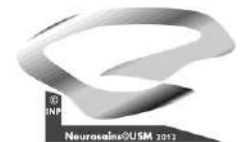
(L = Lecture series; T = Tutorial and/or Practical; S = Student Assignment, Presentation and/or Journal Club; Z = Activity unrelated to INP, not compulsory)

INF 2 Course Code : GIN607 (Neural Science)
 Course Coordinator : Dr. Faruque Reza
faruque@usm.my; Ext: 6316)







Topics1
 NeuSci013 – Long-term depression / NeuSci014 – Synaptic transmission: excitatory and inhibitory

INF 2 Course Code : GIN608 (Behavioural Science)
 Course Coordinator : Dr. Mohd Nasir Che M.Yusoff
nasirff@usm.my; Ext: 6317)

Topics:
 NeuBehav019 – Observational learning / NeuBehav020 – Language learning



INP MASTER OF NEUROSCIENCE COORDINATOR: Dr. Sabarisah Hashim (risha@usm.my; Ext: 6347)

Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 09/01/22		GIN607 (S) NeuSci 014 JMA	Self-Study				Self-Study		
Mon 10/01/22		GIN607 (L) NeuSci 015 MHS	GIN607 (L) NeuSci 015 MHS	Self-Study			Self-Study		
Tues 11/01/22		GIN607 (S) NeuSci 015 MHS	Self-Study				Self-Study		
Wed 12/01/22		GIN607 (L) NeuSci 016 ATCH	GIN607 (L) NeuSci 016 ATCH	Self-Study			Self-Study		
Thurs 13/01/22	CPC (Z) (DK4)		Self-Study				Self-Study		

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INF 2 Course Code : GIN607 (Neural Science)

Course Coordinator : Dr. Faruque Reza







(faruque@usm.my; Ext: 6316)

Topics1

NeuSci014 – Synaptic transmission: excitatory and inhibitory / NeuSci015 – Synaptic integration / NeuSci016 – Synaptic plasticity and learning



INP MASTER OF NEUROSCIENCE COORDINATOR: Dr. Sabarisah Hashim (risha@usm.my; Ext: 6347)

Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 16/01/22		GIN607 (L) NeuSci 017 TB	GIN607 (L) NeuSci 017 TB	Self-Study				Self-Study	
Mon 17/01/22		GIN607 (S) NeuSci 017 TB		Self-Study				Self-Study	
Tues 18/01/22		GIN607 (L) NeuSci 018 MM	GIN607 (L) NeuSci 018 MM	Self-Study				Self-Study	
Wed 19/01/22		GIN607 (S) NeuSci 018 MM		Self-Study				Self-Study	
Thurs 20/01/22	CPC (Z) (DK4)		Self-Study				Self-Study		

(L = Lecture series; T = Tutorial and/or Practical; S = Student Assignment, Presentation and/or Journal Club; Z = Activity unrelated to INP, not compulsory)

INF 2 Course Code : **GIN607 (Neural Science)**
 Course Coordinator : **Dr. Faruque Reza**
 (faruque@usm.my; Ext: 6316)







Topics1

NeuSci017 – Synaptic plasticity and memory
 NeuSci018 – Overview of thinking and consciousness










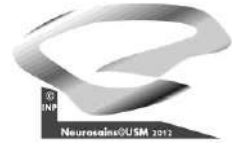
INP MASTER OF NEUROSCIENCE COORDINATOR: Dr. Sabarisah Hashim (risha@usm.my; Ext: 6347)

Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 23/01/22	REVISION WEEK						REVISION WEEK		
Mon 24/01/22									
Tues 25/01/22									
Wed 26/01/22									
Thurs 27/01/22									



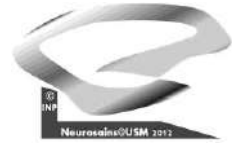
INP MASTER OF NEUROSCIENCE COORDINATOR: Dr. Sabarisah Hashim (risha@usm.my; Ext: 6347)

Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 30/01/22		INP: C39 GIN610 PAPER (Short & Long Essays)							
Mon 31/01/22		INP: C39 GIN611 PAPER (Short & Long Essays)							
Tues 01/02/22	<i>HOLIDAY – CHINESE NEW YEAR</i>						<i>HOLIDAY – CHINESE NEW YEAR</i>		
Wed 02/02/22	<i>HOLIDAY – CHINESE NEW YEAR</i>						<i>HOLIDAY – CHINESE NEW YEAR</i>		
Thurs 03/02/22									









INP MASTER OF NEUROSCIENCE COORDINATOR: Dr. Sabarisah Hashim (risha@usm.my; Ext: 6347)

Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 06/02/22		INP: C39 GIN601 – PAPER 2 (Short & Long Essays)						INP: C39 GIN601 – PAPER 1 (MCQ)	
Mon 07/02/22									
Tues 08/02/22		INP: C39 GIN602 – PAPER 2 (Short & Long Essays)						INP: C39 GIN602 – PAPER 1 (MCQ)	
Wed 09/02/22									
Thurs 10/02/22		INP: C39 GIN603 – PAPER 2 (Short & Long essays)						INP: C39 GIN603 – PAPER 1 (MCQ)	



INP MASTER OF NEUROSCIENCE COORDINATOR: Dr. Sabarisah Hashim (rissha@usm.my; Ext: 6347)

Day / Time	8.30	9.00	10.00	11.00	12.00		2.00	3.00	4.00
Sun 13/02/22		INP: C39 GIN604 – PAPER 2 (Short & Long Essays)						INP: C39 GIN604 – PAPER 1 (MCQ)	
Mon 14/02/22									
Tues 15/02/22		INP: C39 GIN607 – PAPER 2 (Short & Long Essays)						INP: C39 GIN607 – PAPER 1 (MCQ)	
Wed 16/02/22									
Thurs 17/02/22		INP: C39 GIN608 – PAPER 2 (Short & Long essays)						INP: C39 GIN608 – PAPER 1 (MCQ)	

Academic Members of INP (Academic Session 2021/2022, Semester I) Year 1, Sem-1 (Code: C39)

Course Code: GIN610 – BASIC STATISTICS

No.	ABBR	LECTURER	TEL	DEPARTMENT	E-MAIL
1.	KYC	Dr. Kueh Yee Cheng (CC) CC: Course Coordinator	6159	Unit of Biostatistics and Research Methodology	yckueh@usm.my
2.	AKG	Dr. Anis Kausar Ghazali	6338	Unit of Biostatistics and Research Methodology	anisyo@usm.my
3.	SAAH	Dr. Siti Azrin Ab. Hamid	6832	Unit of Biostatistics and Research Methodology	ctazrin@usm.my

Course Code: GIN611 – RESEARCH INTEGRITY

No.	ABBR	LECTURER	TEL	DEPARTMENT	E-MAIL
1.	SH	Dr. Sabarisah Hashim (CC) CC: Course Coordinator	7551	Neurosciences	risha@usm.my
2.	HANS	Prof. Hans Luc Aster Van Rostenberghe	6517	Paediatrics	hansvro@usm.my
3.	NAY	Prof Madya. Nor Azwany Yacob	6330	Community Medicine	azwany@usm.my
4.	NAAH	Dr. Noor Aman A Hamid	6642	Community Medicine	na.hamid@usm.my
5.	SJ	Dr. Saidi Jaafar	5820	School of Dental Sciences	saidijaafar@usm.my
6.	MM	Prof Madya. Muzaimi Mustapha	6309	Neurosciences	mmuzaimi@usm.my

Academic Members of INP (Academic Session 2021/2022, Semester I) Year 1, Sem-1 (Code: C39)

Course Code: GIN601 – CELLULAR AND MOLECULAR BIOLOGY

No.	ABBR	LECTURER	TEL	DEPARTMENT	E-MAIL
1.	FA	Dr. Farizan Ahmad (CC) CC: Course Coordinator	6312	Neurosciences	farizan@usm.my
2.	AAMY	Prof Madya. Abdul Aziz M. Yusoff	6164	Neurosciences	azizmdy@yahoo.com
3.	ZM	Dr. Mohd Zulkifli Mustafa	6318	Neurosciences	zulkifli.mustafa@usm.my
4.	MAP	Dr. Mohd Nor Azim Ab. Patar	6351	Neurosciences	azim.patar@gmail.com
5.	SS	Prof Madya. Sarina Sulong	6798	Human Genome Centre	ssarina@usm.my
6.	NZMY	Dr. Nazihah Mohd Yusof	6798	Human Genome Centre	nazihahmy@usm.my
7.	SY	Dr. Surini Yusoff	6528	Paediatrics	surini@usm.my
8.	MFJ	Prof Madya. Muhammad Farid Johan	6200	Haematology	faridjohan@usm.my
9.	SNMN	Dr. Siti Norasikin Mohd Nafi	6443	Pathology	snmn@usm.my
10.	LSY	Dr. Lee Si Yuen	6569	Internal Medicine	siyuenlee@usm.my

Course Code: GIN602 – NEUROBIOLOGY

No.	ABBR	LECTURER	TEL	DEPARTMENT	E-MAIL
1.	ATCH	Dr. Ahmad Tarmizi Che Has (CC) CC: Course Coordinator	6320	Neurosciences	mizi.chehas@gmail.com
2.	JMA	Prof. Dato' Jafri Malin Abdullah	6300	Neurosciences	brainsciences@gmail.com
3.	FR	Dr. Mohammed Faruque Reza	6316	Neurosciences	faruque@usm.my
4.	TB	Dr. Tahamina Begum	6315	Neurosciences	tahaminabegum70@hotmail.com
5.	MM	Prof Madya. Muzaimi Mustapha	6309	Neurosciences	mmuzaimi@usm.my
6.	MAP	Dr. Mohd Nor Azim Ab. Patar	6351	Neurosciences	azim.patar@gmail.com
7.	MHS	Dr. Mohd Harizal Senik	6300	Neurosciences	mharizalsenik@usm.my
8.	ZZ	Dr. Zuraida Zainun	6300	Neurosciences	drzuraida@yahoo.com
9.	IL	Dr. Idris Long	7778	Biomedical Programme, PPSK	idriskk@usm.my

Academic Members of INP (Academic Session 2021/2022, Semester I) Year 1, Sem-1 (Code: C39)

Course Code: GIN603 – NEUROANATOMY

No.	ABBR	LECTURER	TEL	DEPARTMENT	E-MAIL
1.	MAP	Dr. Mohd Nor Azim Ab. Patar (CC) CC: Course Coordinator	6351	Neurosciences	azim.patar@gmail.com
2.	ZAI	Prof. Zamzuri Idris	6299	Neurosciences	zamzuri@usm.my
3.	MM	Prof Madya. Muzaimi Mustapha	6309	Neurosciences	mmuzaimi@usm.my
4.	MHH	Prof Madya. Muhammad Hafiz Hanafi	6323	Neurosciences	drmdhafiz@usm.my
5.	ZM	Dr. Mohd Zulkifli Mustafa	6318	Neurosciences	zulkifli.mustafa@usm.my
6.	SAH	Dr. Sanihah Abd Halim	6101	Internal Medicine	sanilahabdhalim@yahoo.com
7.	ZIM	Prof Madya. Zul Izhar Mohd Ismail	6075	Anatomy	zulizhar@usm.my
8.	FK	Dr. Fazlina Kasim	6952	Anatomy	fazlinakb@usm.my
9.	AAS	Dr. Anna Alicia Simok	6071	Anatomy	annalicia@usm.my
10.	AHI	Dr. Al Hafiz Ibrahim	6391	Orthopaedic	hafizkk@usm.my

Course Code: GIN604 – NEUROPHYSIOLOGY

No.	ABBR	LECTURER	TEL	DEPARTMENT	E-MAIL
1.	TB	Dr. Tahamina Begum (CC) CC: Course Coordinator	6315	Neurosciences	tahamina@usm.my
2.	JMA	Prof. Dato' Jafri Malin Abdullah	6300	Neurosciences	brainsciences@gmail.com
3.	MM	Prof Madya. Muzaimi Mustapha	6309	Neurosciences	mmuzaimi@usm.my
4.	FR	Dr. Mohammed Faruque Reza	6316	Neurosciences	faruque@usm.my
5.	AIF	Dr. Aini Ismafairus Abd Hamid	6348	Neurosciences	aini_ismafairus@usm.my
6.	ATCH	Dr. Ahmad Tarmizi Che Has	6320	Neurosciences	mizi.chehas@gmail.com

Academic Members of INP (Academic Session 2019/2020, Semester I) Year 1, Sem-1 (Code: C39)

Course Code: GIN607 – NEURAL SCIENCE

No.	ABBR	LECTURER	TEL	DEPARTMENT	E-MAIL
1.	FR	Dr. Faruque Reza (CC) CC: Course Coordinator	6316	Neurosciences	faruque@usm.my
2.	JMA	Prof. Dato' Jafri Malin Abdullah	6300	Neurosciences	brainsciences@gmail.com
3.	TB	Dr. Tahamina Begum	6315	Neurosciences	tahamina@usm.my
4.	MM	Prof Madya. Muzaimi Mustapha	6309	Neurosciences	mmuzaimi@usm.my
5.	ATCH	Dr. Ahmad Tarmizi Che Has	6320	Neurosciences	mizi.chehas@gmail.com
6.	MHS	Dr. Mohd Harizal Senik	6300	Neurosciences	mharizalsenik@usm.my

Course Code: GIN608 – BEHAVIOURAL SCIENCE

No.	ABBR	LECTURER	TEL	DEPARTMENT	E-MAIL
1.	MNMY	Dr. Mohd Nasir Che M.Yusoff (CC) CC: Course Coordinator	6317	Neurosciences	nasirff@usm.my
2.	MM	Prof Madya. Muzaimi Mustapha	6309	Neurosciences	mmuzaimi@usm.my
3.	TB	Dr. Tahamina Begum	6316	Neurosciences	tahamina@usm.my
4.	MF	Dr. Mohamed Faiz Mohamed Mustafar	6349	Neurosciences	faizmustafar@usm.my
5.	RH	Dr. Sabarisah Hashim	7551	Neurosciences	risha@usm.my
6.	MAAI	Dr. Muhd Al-Aarifin Ismail	6557	Medical Education	alaarifin@usm.my
7.	MZMN	Prof Madya. Mohd Zarawi Mat Nor	6549	Medical Education	zarawi@usm.my
8.	ZH	Prof Madya. Zurina Hassan	(81) 2726	Centre for Drug Research (USM Penang Campus)	zurina_hassan@usm.my

Academic Member of INP (Academic Session 2021/2022, Semester I) Candidates in Sem-4+ (Code: C39 / C003)

Course Code: GIN600 / GIN700 – RESEARCH PROJECT (DISSERTATION/THESIS)

Course	ABBR	Coordinator	TEL	DEPARTMENT	E-MAIL
GIN600	MNMY	Dr. Mohd Nasir Che Mohd Yusoff	6317	Neurosciences	nasirff@usm.my
GIN700	MM	Prof Madya. Muzaimi Mustapha	6309	Neurosciences	mmuzaimi@usm.my

Jointly scheduled by:



.....
Dr. Sabarisah Hashim
 Coordinator, INP Master of Neuroscience

Date : 13 Sept 2021



.....
Assoc Prof. Muzaimi Mustapha
 Coordinator, INP Doctor of Neuroscience

Date : 13 Sept 2021

Endorsed by :



.....
Prof. Zamzuri Idris
 Head, Dept. of Neurosciences

Date : 13 Sept 2021