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| <b>Module Title</b><br><b>Sciences For Advancing Adult Nursing</b><br><br><b>Keywords</b><br>Pathophysiology and psychopathology;<br>Pharmacology. | Reference NU3882<br>SCQF LevelSCQF 9<br>SCQF Points 15<br>ECTS Points 7.5<br>Created March 2015<br>Approved June 2015<br>Amended<br>Version No. 1 |
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## This Version is No Longer Current

The latest version of this module is available [here](#)

### Prerequisites for Module

Successful completion of Stage 2 or equivalent.

### Corequisite Modules

None.

### Precluded Modules

None.

### Aims of Module

To facilitate the student's application of sciences to meet the essential and complex physical and mental healthcare needs of the adult.

### Learning Outcomes for Module

On completion of this module, students are expected to be able to:

1 Discuss the pathophysiology and

### Indicative Student Workload

|                                       |           |
|---------------------------------------|-----------|
| <i>Contact Hours</i>                  | Full Time |
| Lectures, tutorials, online learning. | 40        |

|   |    |
|---|----|
| <i>Directed Study</i>                         |    |
| Online learning activities, directed reading. | 50 |

|                      |    |
|----------------------|----|
| <i>Private Study</i> |    |
|                      | 60 |

### Mode of Delivery

Lectures, tutorials, online learning.

### Assessment Plan

|             | Learning Outcomes Assessed |
|-------------|----------------------------|
| Component 1 | 1,2,3,4                    |

1. Discuss the pathophysiology and psychopathophysiology of clinical features related to complex physical and mental health conditions.
2. Discuss the scientific basis for a range of invasive and non-invasive skills related to complex physical and mental health care needs of the adult.
3. Critically explore the application of sciences in the care of adults, families and carers during terminal illness.
4. Apply knowledge of pharmacological interventions in the management of complex physical and mental health care needs of the adult.

### **Indicative Module Content**

Pathophysiological and psychopathological processes in selected complex physical and mental health problems;  
 Pharmacology, Polypharmacy, Pharmacokinetics,  
 Pharmacodynamics;  
 Haemodynamics.

Written Examination.

### **Indicative Bibliography**

1. DOWNIE, G., MACKENZIE, J. and WILLIAMS, A., 2008. *Pharmacology and medicines management for nurses*. 4th ed. Edinburgh: Churchill Livingstone.
2. PEATE, I. and NAIR, M., 2011. *Fundamentals of anatomy and physiology for student nurses*. Oxford: Wiley-Blackwell.
3. PEATE, I. and NAIR, M., 2013. *Fundamentals of applied pathophysiology: an essential guide for nursing & healthcare students*. Oxford: Wiley-Blackwell.
4. UPTON, D., 2010. *Introducing psychology for nurses and healthcare professionals*. Harlow: Pearson Education Ltd.