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| MODULE SPECIFICATION TEMPLATE |

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| MODULE DETAILS | | | | | | | | | | | | | | | | | | | | |
| **Module title** | Invasive and Interventional Cardiology | | | | | | | | | | | | | | | | | | | |
| **Module code** | MDM137 | | | | | | | | | | | | | | | | | | | |
| **Credit value** | 20 | | | | | | | | | | | | | | | | | | | |
| **Level**  Mark the box to the right of the appropriate level with an ‘X’ | Level 4 |  | | Level 5 | | |  | Level 6 | | | |  | | Level 7 | | | x | Level 8 |  | |
| Level 0 (for modules at foundation level) | | | | | | | | | | |  | |  | | | | | | |
| ***Entry criteria for registration on this module*** | | | | | | | | | | | | | | | | | | | | |
| **Pre-requisites**  Specify in terms of module codes or equivalent | This programme is open to post-registration doctors and qualified practitioners in any profession allied to medicine; those with a first degree will have a minimum of 2 years clinical practice; those without will have a minimum of 5 years post qualification practice in cardiology. | | | | | | | | | | | | | | | | | | | |
| **Co-requisite modules**  Specify in terms of module codes or equivalent |  | | | | | | | | | | | | | | | | | | | |
| ***Module delivery*** | | | | | | | | | | | | | | | | | | | | |
| **Mode of delivery** | Taught | | x | | Distance | | | |  | | Placement | | | | |  | Online | | |  |
|  | Other | |  | | | | | | | | | | | | | | | | | |
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| **Pattern of delivery** | Weekly | |  | | Block | | | | x | | Other | | | | |  | | | | |
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| **When module is delivered** | Semester 1 | | | |  | Semester 2 | | | | | | |  | | Throughout year | | | | |  |
| Other | |  | | | | | | | | | | | | | | | | | |
| **Brief description of module content and/ or aims**  Overview (max 80 words) | The module provides a basis for the student to develop a systematic and comprehensive understanding of - and skills in - the care and management of patients requiring invasive management of their cardiac condition. The module includes percutaneous interventions and coronary artery and valve surgery, the assessment of patients undergoing non-cardiac operations and the management of haemodynamic instability. | | | | | | | | | | | | | | | | | | | |
| **Module team/ author/ coordinator(s)** | Dr Nikhil Patel, Co-Module Leader  Mr Ishtiaq Ahmed, Co-Module Leader  Dr Sean O’Nunain, Course Leader  Mr John Anderson, Programme Leader  Ms Kristina Rudge, Course and Module Administrator | | | | | | | | | | | | | | | | | | | |
| **School** | Postgraduate Medicine, Division of Medical Education, BSMS | | | | | | | | | | | | | | | | | | | |
| **Site/ campus where delivered** | Falmer campus, University of Brighton | | | | | | | | | | | | | | | | | | | |
| ***Course(s) for which module is appropriate and status on that course*** | | | | | | | | | | | | | | | | | | | | |
| **Course** | | | | | | | | | | **Status (mandatory/ compulsory/ optional)** | | | | | | | | | | |
| MSc Cardiology | | | | | | | | | | Mandatory | | | | | | | | | | |
| PgDip Cardiology | | | | | | | | | | Mandatory | | | | | | | | | | |
| PgCert Cardiology | | | | | | | | | | Mandatory | | | | | | | | | | |

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| MODULE AIMS, ASSESSMENT AND SUPPORT | | |
| **Aims** | This module aims to build on the knowledge gained in the previous modules of principles and practice and procedures and investigation. This module will develop students’ theoretical knowledge of invasive cardiology and cardiac surgery by promoting critical awareness, understanding and application of the current evidence base. A secondary aim is to promote a wider understanding of the differing profiles and contributory roles of the various health care professionals involved in the interventional care of cardiac patients | |
| **Learning outcomes** | By the end of the module the students will show:   * advanced knowledge and understanding of the techniques, indications, value, complications, and costs of commonly used cardiology investigations, including: cardiac catheterisation, angiography, and electrophysiology studies * advanced knowledge and understanding of common invasive treatments, including angioplasty, stenting, permanent pacemaker insertion, defibrillator implantation, and adult cardiac surgery | |
| **Content** | Normal coronary anatomy  Cardiac catheterisation  Coronary angiograms and the Invasive management of coronary artery disease  Principles of Cardiac electrophysiology ,  Cardiac pacing and complex Implantable devices  Assessment of Patients Prior to Non-Cardiac Surgery  Assessments of Patients Prior to Cardiac Surgery  Care of Patients Following Cardiac Surgery  Patients with Valvular Heart Disease  Diseases of the Aorta  Management of Critically Ill Patients with Haemodynamic disturbance | |
| **Learning support** | Students are provided with an up to date set of websites, key documents and latest research articles on Student Central. | |
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| ***Teaching and learning activities*** | | |
| **Details of teaching and learning activities** | Teaching methods will encompass:   * Lectures * Whole group discussion * Small group discussion * Individual tutorials * Student presentations | |
| **Allocation of study hours (indicative)**  Where 10 credits = 100 learning hours | | **Study hours** |
| **SCHEDULED** | This is an indication of the number of hours students can expect to spend in scheduled teaching activities including lectures, seminars, tutorials, project supervision, demonstrations, practical classes and workshops, supervised time in workshops/ studios, fieldwork, external visits, and work-based learning. | 30 |
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| **GUIDED INDEPENDENT STUDY** | All students are expected to undertake guided independent study which includes wider reading/ practice, follow-up work, the completion of assessment tasks, and revisions. | 170 |
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| **PLACEMENT** | The placement is a specific type of learning away from the University that is not work-based learning or a year abroad. | N/A |
| **TOTAL STUDY HOURS** | | **200** |
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| ***Assessment tasks*** | | |
| **Details of assessment for this module** | 90 minute unseen exam and a 2 000 to 3000-word assignment. The pass mark is 50% for each component and students will have to pass both to pass the module. | |
| **Types of assessment task[[1]](#footnote-1)**  Indicative list of summative assessment tasks which lead to the award of credit or which are required for progression. | | **% weighting**  (or indicate if component is pass/fail) |
| **WRITTEN** | 90 minute written examination | 50% |
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| **COURSEWORK** | 2-3,000 word written assignment | 50% |
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| **PRACTICAL** | Formative presentations during the module teaching week | N/A |
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| EXAMINATION INFORMATION | | | | |
| **Area examination board** |  | | | |
| Refer to Faculty Office for guidance in completing the following sections | | | | |
| ***External examiners*** | | | | |
| **Name** | | **Position and institution** | **Date appointed** | **Date tenure ends** |
| Dr Nicholas Gall MSc MD FRCP | | Consultant Cardiologist(Arrhythmias and Neurocardiology)Honorary Senior Lecturer, KCL | February 2014 | February 2018 |
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| QUALITY ASSURANCE | | | | | |
| **Date of first approval**  Only complete where this is not the first version |  | | | | |
| **Date of last revision**  Only complete where this is not the first version |  | | | | |
| **Date of approval for this version** |  | | | | |
| **Version number** |  | | | | |
| **Modules replaced**  Specify codes of modules for which this is a replacement | MDM04 Invasive Cardiology & Cardiac Surgery | | | | |
| **Available as free-standing module?** | | Yes | x | No |  |

1. Set exercises, which assess the application of knowledge or analytical, problem-solving or evaluative skills, are included under the type of assessment most appropriate to the particular task. [↑](#footnote-ref-1)