1. **Title of the module:**
   Module 3: Biomedical Science and Pharmacology in Dentistry (M3)

2. **School or partner institution which will be responsible for management of the module:**
   Centre for Professional Practice (Health Education Kent Surrey & Sussex (HEKSS) Dental)

3. **Start date of the module:**
   Summer/Autumn 2015

4. **The number of students expected to take the module:**
   12 (rising to a maximum of 72 in subsequent cohorts).

5. **Modules to be withdrawn on the introduction of this proposed module and consultation with other relevant Schools and Faculties regarding the withdrawal:**
   None

6. **The level of the module (e.g. Certificate [4], Intermediate [5], Honours [6] or Postgraduate [7]):**
   Level 5

7. **The number of credits and the ECTS value which the module represents:**
   30 Credits (15 ECTS)

8. **Which term(s) the module is to be taught in (or other teaching pattern):**
   Summer/Autumn 2015
   Term times will be from the beginning of May until the end of August for the Summer Term and the beginning of September until the end December for the Autumn Term. Specific dates will be provided within the Programme Handbook

9. **Prerequisite and co-requisite modules:**
   Prerequisite: Modules A, B, C, D, 1 and 2

10. **The programmes of study to which the module contributes:**
    FdSc in Advanced Dental Nursing

11. **The intended subject specific learning outcomes:**
    At the end of the module students will be able to demonstrate:
    11.1 Knowledge and critical understanding of biomedical science as it relates to patients in a dental workplace setting.
    11.2 Knowledge and critical understanding of pharmacology of medicaments as they relate to patients in a dental workplace setting.
    11.3 Critical and applied knowledge and understanding of the challenges associated with providing oral care to patients with different needs.
    11.4 Knowledge and critical understanding of the identification and management of medical emergencies, and competence in performing CPR, and the challenges involved.

Final V6-1
Evidence of the application and sharing of knowledge and understanding of biomedical science and pharmacology and its associated challenges within a dental workplace setting.

12. The intended generic learning outcomes:
On completion of this module students will be able to:

12.1 Demonstrate the ability to use a range of established techniques to critically analyse arguments, assumptions, concepts and data, and to propose, and apply where applicable, solutions to issues arising from the analysis.

12.2 Effectively communicate information, arguments and analysis in a variety of forms, to specialist and non-specialist audiences demonstrating key interpersonal skills.

12.3 Demonstrate the capacity for autonomous learning, and the ability to apply reflection and self-understanding in order to evaluate the need to undertake further training, develop new and/or existing skills, and acquire new competencies commensurate with assuming greater personal responsibility and/or responsibility within organisations.

12.4 Demonstrate the ability to research, manage, appraise and present material, data and scientific literature through word-processing, computer-based presentation and use of the internet.

13. A synopsis of the curriculum:
This module aims to cover aspects of what the GDC refers to as the ‘Foundations of Practice’ and covers the important areas of biomedical science and pharmacology in relation to the diseases, disorders and drugs that may impact on the duties of a dental nurse. This module gives consideration to both general and specific patient groups, such as those that present challenges associated with being medically or physiologically compromised; themes which may be considered essential to developing competent, ethical, safe, inclusive and professional dental practice standards.

The module also encompasses the core professional areas of identifying and managing medical emergencies and resuscitation, and leads to applied understanding of the challenges and issues associated with patient care, management and safety. Moreover, in requiring students to share their knowledge with the wider dental team, the module aims to facilitate effective interaction with the team for the benefit of patients. These areas are fundamental for the protection and safety of patients and continuous professional development of all members of the dental team. During this module students will have the opportunity to critically examine their own practice in relation to the themes and regulatory requirements.

14. Indicative Reading List:
Core Text:


Students may be asked to read additional material
Recommended Text:

Munksgaard.

Background:

15. **Learning and Teaching Methods**, including the nature and number of contact hours and the total study hours which will be expected of students, and how these relate to achievement of the intended module learning outcomes:

This module will be delivered via face-to-face taught sessions over one extended weekend (Thursday, Friday, and Saturday), and supported with a preparation guided study package.

1:1 face to face tutorials are intended to be student focussed and to concentrate on covering any area of the module content, learning outcomes or other area identified to advance learning.

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<thead>
<tr>
<th>Learning outcomes</th>
<th>Delivery Methods</th>
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<tbody>
<tr>
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<td>Guided Study</td>
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| Approximate Number of Hours | 15 | 20 | 9 | 1 | 225 | 30 | 75 |

16. **Assessment methods and how these relate to testing achievement of the intended module learning outcomes:**
The assessment comprises a single assignment. A pass must be gained to successfully complete the module.

<table>
<thead>
<tr>
<th>Learning outcomes</th>
<th>Method of Assessment:</th>
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<tbody>
<tr>
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<td>Written portfolio style assignment of 3,000 words to include:</td>
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<td>A written narrative which demonstrates critical understanding of the key underpinning evidence, theories, principles and issues relating to patient care, access, management and safety in the dental workplace in respect of the subject area. (1500 words)</td>
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<td>A written report and evaluation of the delivery of an interaction with colleagues in relation to the identification and management of medical emergencies, competence in performing CPR and recognition of the challenges associated with this area of practice (Delivery may take the form of a mini lecture, seminar, lunch and learn discussion or similar according to workplace restrictions). (750 words)</td>
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<td>A work related case study which demonstrates critical and applied understanding of the challenges associated with patients with different needs, and which incorporates critical self-reflection and identifies potential areas for personal development. (750 words)</td>
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<td>Copies of the currently held Medical Emergencies and Basic Life Support certificates (these are mandatory so do not require additional endeavour beyond copying / scanning).</td>
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17. Implications for learning resources, including staff, library, IT and space

None.

18. The School/Collaborative Partner recognises and has embedded the expectations of current disability equality legislation, and supports students with a declared disability or special educational need in its teaching. Within this module we will make reasonable adjustments wherever necessary, including additional or substitute materials, teaching modes or assessment methods for students who have declared and discussed their learning support needs. Arrangements for students with declared disabilities will be made on an individual basis, in
consultation with the University’s/Collaborative Partner’s disability/dyslexia support service, and specialist support will be provided where needed.

19. **Campus(es) where module will be delivered:** HEKSS has a number of Post Graduate Education Centres (PGECs) available with both clinical and academic teaching facilities. Most of the teaching and training is expected to take place at the Holiday Inn Conference Facility at Gatwick, West Sussex. The exact location will be chosen according to student numbers and to reflect students’ geographical location and may include: Holiday Inn Conference Facility, Gatwick, West Sussex; Guildford Education Centre, Royal Surrey County Hospital, Surrey; The Education and Training Centre, Tunbridge Wells Hospital, Pembury, Tunbridge Wells, Kent; PGEC, Kent and Canterbury Hospital, Canterbury, Kent; PGEC, East Surrey Hospital, Redhill, Surrey.

*If the module is part of a programme in a Partner College or Validated Institution, please complete the following:*

20. **Partner College/Validated Institution:** Mid Kent College and HEKSS
21. **University School responsible for the programme:** CPP
SECTION 2: MODULE IS PART OF A PROGRAMME OF STUDY IN A UNIVERSITY SCHOOL

Statement by the School Director of Learning and Teaching/School Director of Graduate Studies (as appropriate): "I confirm I have been consulted on the above module proposal and have given advice on the correct procedures and required content of module proposals"

.......................................................................................... ..........................................................
Director of Learning and Teaching/Director of Graduate Studies (delete as applicable) Date

Print Name

Statement by the Head of School: "I confirm that the School has approved the introduction of the module and, where the module is proposed by School staff, will be responsible for its resourcing"

.......................................................................................... ..........................................................
Head of School Date

Print Name

SECTION 3: MODULE IS PART OF A PROGRAMME IN A PARTNER COLLEGE OR VALIDATED INSTITUTION

(Where the module is proposed by a Partner College/Validated Institution)

Statement by the Nominated Officer of the College/Validated Institution (delete as applicable): "I confirm that the College/Validated Institution (delete as applicable) has approved the introduction of the module and will be responsible for its resourcing"

.......................................................................................... ..........................................................
Nominated Responsible Officer of Partner College/Validated Institution Date

Print Name

Post

Partner College/Validated Institution

Module Specification Template
Last updated February 2013

Final V6-6