

<b>Full Title:</b>	Project
<b>Module Code:</b>	PROJ S7Z01
<b>Credits:</b>	5
<b>Valid From:</b>	Semester 1 - 2016/17 ( September 2016 )
<b>Module Delivered in</b>	<a href="#">2 programme(s)</a>
<b>Module Description:</b>	<ul style="list-style-type: none"> <li>• To provide students with an opportunity to advance their knowledge of a particular topic on their programme;</li> <li>• To develop further their skills in acquiring, integrating and communicating scientific knowledge.</li> <li>• To develop students' self-motivation, creativity, independent thinking and time-keeping skills</li> <li>• To foster confidence and a sense of personal responsibility for their work.</li> </ul>
<b>Learning Outcomes:</b>	
<i>On successful completion of this module the learner should be able to</i>	
<ol style="list-style-type: none"> <li>1. Identify and summarise information from the literature on a defined scientific topic in their own words.</li> <li>2. Communicate the underlying concepts in a particular field of science.</li> <li>3. Interpret, evaluate and critically discuss the findings of their work with reference to the literature.</li> <li>4. Conclude their own views on key issues in the chosen area, including suggestions where possible useful work might be done in the future.</li> <li>5. Organise their work in the form of a written dissertation and oral presentation.</li> </ol>	

**Module Content & Assessment**

<b>Indicative Content</b>	
<b>Learning and Teaching methods</b> Students will carry out an individual, desk-based (non-experimental) study on a topic of relevance to their programme, under the supervision and guidance of a lecturer as supervisor/mentor. The supervisor/mentor and student will identify and frame a scientific question together which will become the focus of the literature project. Students will meet with their supervisor for 20-30 minutes per week to discuss the planning and progress of the project (but where possible a casual (as need arises) arrangement for meetings will be allowed rather than formally arranged sessions). They will also attend a one-hour 'communications for scientists' tutorial in most weeks of the semester on a variety of topics related to the process and communication of research. At week 6 of the teaching term, the students will submit a draft of the Literature Review Introduction for assessment and feedback (2,000 words maximum). The project work will finally be submitted in week 11 as a typed Literature Review (5,000 ± 500 words), and students will also present a summary of their work as a ten-minute Microsoft PowerPoint presentation (followed by a Q&A session) to a group of the supervisors/mentors and their peers in week 13. Students will be informed that 'Turnitin' or some other plagiarism-search software will be used to assess their work. The Departmental Plagiarism committee will review any cases of plagiarism identified, however as the students are in their award year and are guided on the issue, this is not expected to occur. Students will be given semi-formal feedback on their performance and submissions during the semester from their supervisor/mentor to assist with their on-going development.	
<b>Communications for Scientists - Weekly Tutorials</b> Tutorials are provided weekly to the student groups to facilitate enhancing their experience and performance in the literature project. Topics covered include the following: * An overview of the module, explaining the roles of all involved. Due dates and submission requirements are also outlined. * Sourcing literature electronically: An overview to the online sources available to DkIT students. This tutorial takes place in the library and outlines the books, journals and articles available through the electronic portals. Students are also given guidelines on using sciencedirect.com and pubmed.com. In addition, the college's eBrary is outlined. *Harvard referencing: An overview of the college's preferred referencing system is provided in addition to a short tutorial on how the EndNote Web/Mendeley software can make referencing an easy task is performed. Again this tutorial takes place in the library. * Evaluation of literature and its use in the Literature Review. * Structuring a literature review, the importance of preparing and presenting a plan. * Science writing skills - avoiding common pitfalls. * Presentation skills - students are presented with guidelines on structuring a powerpoint presentation in addition to receiving advice on delivering a presentation to a group. * Recommended electronic tools. For example, using Microsoft Word to prepare your table of contents, perform spelling/grammar checks as you work while also linking with referencing software. * Plagiarism - an interactive overview of plagiarism and how it is identified through software such as 'Turnitin'. The importance of writing in your own words is presented. * CV and interview Skills	
<b>Internationalisation</b> Students will be encouraged to utilise international peer-reviewed journals and publications in addition to international society, and news, resources during their research.	
<b>eLearning Exercises</b> Student will have access to a virtual learning environment (VLE) where they can perform formative assessments in punctuation, the use of paragraphs and referencing for example. The VLE will also provide the students with access to DkIT's Harvard Referencing Resource and also a guideline document to Academic Writing. Articles and YouTube video clips that may assist students in their literature projects will also be posted to the VLE. Students will have 24/7 access to the VLE allowing them to download and study at their own pace and in their own time. This will facilitate learning and understanding for all students, but in particular the international students who may not possess fluent English.	
<b>Other e learning resources</b> Students will engage with online search engines for peer-reviewed literature (e.g. www.sciencedirect.com / www.pubmed.com / DKIT multiseach). The Literature Review submission will be created electronically using Microsoft Word while the students' presentations are performed using Microsoft PowerPoint. The online referencing manager 'Mendeley' will be demonstrated to the class in order to assist with collation/storage of peer reviewed articles in addition to helping adhere to the DkIT Harvard Referencing Guide.	
<b>Sample Project Titles:</b> • A feasibility study on the use of coppice willow chips as a bio-filtration medium. • Assessment of the feasibility of using human urine as a liquid fertiliser in a closed-loop hydroponics system. • A comparative assessment of methods used for the determination of protein concentration. • A comparison of the physical, chemical and therapeutic properties of anti-hypertension drugs. • MRSA: the how, why and where can we possibly go from here? • A discussion on the discovery, development and worldwide social impact of the penicillin group of antibiotics. • Malaria: the greatest scourge of mankind. • Phytochemicals: the role of plant extracts in human medicine from ancient times to the present. • The use of Genetically Modified Organisms (GMO) for the development of therapeutic agents. • Genetically Modified Organisms (GMO): safety, use and public opinion. • Impact of the Human Genome Project on the development of novel, therapeutic agents. • Use of animal models in basic research. • The search for antibody based treatments for HIV infections. • Alzheimers - a degenerative condition • Immunotherapy in cancer treatment	

<b>Assessment Breakdown</b>	<b>%</b>
Course Work	100.00%

**Full Time**

<b>Course Work</b>							
<i>Assessment Type</i>	<i>Assessment Description</i>	<i>Outcome addressed</i>	<i>% of total</i>	<i>Marks Out Of</i>	<i>Pass Marks</i>	<i>Assessment Date</i>	<i>Duration</i>
Written Report	During week 6 of the teaching semester, students will submit a draft version of the Introduction to their Literature Review. There will be a word limit of 2000 words on this submission.	1,2	15.00	0	0	Week 6	0
Written Report	During week 11 of the teaching semester, students will submit the Literature Review of their chosen topic. Each Literature Review will be assessed by the project mentor and one other mentor. The two mentors will meet to discuss their marking and come to an agreement on an overall mark. If an agreement is not possible, a third mentor will be used to assist in the grading process. There is a 5000 (+/-500) word limit on this submission.	1,2,3,4,5	60.00	0	0	Week 11	0
Presentation	During week 13 of the teaching semester, students will perform a ten minute presentation of the project, which will be followed by a question and answer session. Each presentation will be assessed by a team of mentors.	1,2,3,4,5	25.00	0	0	Week 13	0

No Project

No Practical

No End of Module Formal Examination

**DKIT reserves the right to alter the nature and timings of assessment**

**Module Workload & Resources**

**Workload: Full Time**

Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Tutorial	Project co-ordinator delivered tutorials on scientific writing, research methods, presentation skills in addition to CV generation tips and interview skills.	1.00	Every Week	1.00
Lecturer-Supervised Learning (Contact)	Meeting with supervisor	0.50	Every Week	0.50
Independent Study	Sourcing, reading and evaluating published works will be performed in addition to working towards the Literature Review drafts/ final document and oral presentation.	6.50	Every Week	6.50
Total Weekly Learner Workload				8.00
Total Weekly Contact Hours				1.50

**This course has no Part Time workload.**

Resources
<i>Recommended Book Resources</i>
<p>Denscombe, M. 2010, <i>The Good Research Guide</i>, 4 Ed., Open University Press, (ebook available through DkIT eBrary resource and also in print)</p> <p>Louis Cohen, Lawrence Manion &amp; Keith Morrison 2011, <i>Research Methods in Education</i>, 6th (2007) 7th (2011) Ed., Routledge</p> <p>Martha Davis, Kaaron Joann Davis, Marion Dunagan 2012, <i>Scientific Papers and Presentations : Navigating Scientific Communication in Today's World</i>, 3 Ed., Academic Press (available through DkIT's Dawsonera online collection)</p> <p>Day, Robert A. 2011, <i>How to write and publish a scientific paper</i>, 7th Ed., Santa Barbara, Calif. : Greenwood,</p> <p>Robert A. Day And Nancy Sakaduski 2011, <i>Scientific English : A Guide for Scientists and Other Professionals</i>, 3 Ed., Greenwood Publishing Group (available through DkIT's Dawsonera online collection)</p> <p>James G. Speight 2012, <i>Clear and Concise Communications for Scientists and Engineers</i>, CRC Press Inc (available through DkIT's Dawsonera online collection)</p> <p>Rose, J. 2012, <i>The mature student's guide to writing</i>, 2nd (2007) and 3rd (2012) Ed., Dalgrows</p> <p>Jean-Luc Lebrun 2007, <i>Scientific writing : a reader and writer's guide</i>, World Scientific Pub Co Pte (available through DkIT's Dawsonera online collection)</p> <p>Jennifer Peat et al. 2002, <i>Scientific writing : easy when you know how</i>, Blackwell Publishing (available through DkIT's Dawsonera online collection)</p> <p>Anderson, J. and Poole, M. 2001, <i>Assignment and Thesis Writing</i>, 4th Ed., Wiley</p>
<i>Supplementary Book Resources</i>
<p>Salmon, G. 2003, <i>e-tivities; the key to active on-line learning</i>, Falmer (available through DkIT's Dawsonera online collection)</p> <p>Joyce Cox, Joan Lambert 2010, <i>Microsoft PowerPoint 2010</i>, Microsoft Press (available through DkIT's Dawsonera online collection)</p>
<i>This module does not have any article/paper resources</i>
<i>Other Resources</i>
<p>Textbook collection online with DkIT: <i>Access online textbooks through Dkit's Dawsonera and eBrary (go to DkIT library site to begin)</i></p> <p>DkIT library: <i>Credit where Credit is due (available by searching on dkit.ie search tool)</i>, DkIT</p> <p>DkIT Academic Council: <i>Academic Integrity Policy Document (available by searching on dkit.ie search tool)</i></p> <p>Website: Leed's University Library Writing Skills tutorials <a href="http://library.leeds.ac.uk/skills-writin g#activate-different_types_of_academic_w_riting">http://library.leeds.ac.uk/skills-writin g#activate-different_types_of_academic_w_riting</a></p> <p>Website: Purdue Online Writing Lab (OWL) 2011, <a href="http://owl.english.purdue.edu">http://owl.english.purdue.edu</a></p> <p>Link: <i>Library Catalogue</i> <a href="http://tinyurl.com/qyj4zc4">http://tinyurl.com/qyj4zc4</a></p> <p>Link: <i>Library Catalogue</i> <a href="http://tinyurl.com/oto13hm">http://tinyurl.com/oto13hm</a></p>

**Module Delivered in**

Programme Code	Programme	Semester	Delivery
DK_SAPBI_7	<a href="#">Bachelor of Science in Applied Bioscience</a>	5	Mandatory
DK_SPHAR_7	<a href="#">Bachelor of Science in Pharmaceutical Science</a>	6	Mandatory