

Section 2 - Connect with your University



Reading List – Engineering and Product Design

Between now and the beginning of your further education in design, engineering and related fields you should continue to access the resources made available via the online curriculum.

The online curriculum contains a wide range of video links which support all areas of Product Design study, these can be found in the 'extension activities' area of each revision topic. View these in order to give a thorough understanding of the theory content.

You will also find a new area on the online curriculum which is regularly being updated with links to current news articles relating to technology. This is named 'Design and Technology Online Library', you will find a wide range of online articles to allow you to read around the subject with the most up to date developments. We find that in difficult times such as these, design and engineering come to the forefront in terms of helping to problem solve and ease the difficulties faced by those on the frontline. Check on these regularly and read through, also feel free to send over links to either Mrs Tarr or Miss Hughes if you find an article you think is interesting which can be shared with other students.

Feel free to contact the Design & Technology department if you have any questions.

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Suggested reading list:

Sustainable Energy – Without the Hot Air

by David J.C. MacKay

Published by UIT, 2008

ISBN: 0954452933

This book is available as a free download from www.withouthotair.com/download.html

Sustainable Materials – With Both Eyes Open

by Julian Allwood and Jonathan Cullen

Published by UIT Cambridge Ltd., 2012

ISBN: 190686005X

This book is available as a free download from <http://withbotheyesopen.com/read.php>

Engineering in Society

edited by Rob Lawlor

Published by the Royal Academy of Engineering, 2013

An e-book published by the Royal Academy of Engineering that is available as a free (pdf) download from the [RAEng website](#)

How Do Wings Work?

by Holger Babinsky

Published by Physics Education, 2003

doi: 10.1088/0031-9120/38/6/001

Not a book but a paper published in the Institute of Physics journal *Physics Education* that is available as a free download from the [Physics Education website](#)

Think Like An Engineer

by Guru Madhavan

ISBN: 1780746377

[https://www.amazon.co.uk/Think-Like-Engineer-Inside-
Changing/dp/1780748647/ref=sr_1_1?dchild=1&keywords=Think+Like+An+Engineer&qid=1587398463&sr=8-1](https://www.amazon.co.uk/Think-Like-Engineer-Inside-Changing/dp/1780748647/ref=sr_1_1?dchild=1&keywords=Think+Like+An+Engineer&qid=1587398463&sr=8-1)

Engineering: A Very Short Introduction

By David Blockley

ISBN: 9780199578696

[https://www.amazon.co.uk/Engineering-Very-Short-Introduction-
Introductions/dp/0199578699/ref=sr_1_1?dchild=1&keywords=Engineering%3A+A+Very+S
hort+Introduction&qid=1587398591&sr=8-1](https://www.amazon.co.uk/Engineering-Very-Short-Introduction-Introductions/dp/0199578699/ref=sr_1_1?dchild=1&keywords=Engineering%3A+A+Very+Short+Introduction&qid=1587398591&sr=8-1)

How Things Work – The Physics of Everyday Life

by Louis A. Bloomfield

Published by John Wiley & Sons, 2009

ISBN: 0470223995

[https://www.amazon.co.uk/How-Things-Work-Physics-
Everyday/dp/0470223995/ref=sr_1_2?dchild=1&keywords=How+Things+Work+%E2%80%93+The+P
hysics+of+Everyday+Life&qid=1587397427&sr=8-2](https://www.amazon.co.uk/How-Things-Work-Physics-Everyday/dp/0470223995/ref=sr_1_2?dchild=1&keywords=How+Things+Work+%E2%80%93+The+Physics+of+Everyday+Life&qid=1587397427&sr=8-2)

Engineering: A Beginner's Guide

by Natasha McCarthy

Published by Oneworld Publications, 2009

ISBN: 1851686622

https://www.amazon.co.uk/Engineering-Beginners-Guide-Guides/dp/1851686622/ref=sr_1_1?dchild=1&keywords=Engineering%3A+A+Beginner%27s+Guide&qid=1587397594&sr=8-1

Structures – or Why Things Don't Fall Down

by J.E. Gordon

Published by DaCapo Press, 2003

ISBN: 0306812835

https://www.amazon.co.uk/Structures-Things-Dont-Fall-Down/dp/0306812835/ref=sr_1_1?dchild=1&keywords=Structures+%E2%80%93+or+Why+Things+Don%27t+Fall+Down&qid=1587397684&sr=8-1