|  |
| --- |
| **HE Motorsport** |
|  |
| Welcome to BSc (Hons) Motorsport Technology (Top-up year) | Course details* L6 top-up year degree in Motorsport Technology
* 1 year course offered in Partnership with Brighton University
 |
| Congratulations on being accepted onto this course. We are delighted that you will be joining the Chichester College Group and embarking on this exciting journey with us. Below you will find the details of your first day. |
| **What to bring on your first day**Please bring a photographic ID so that we can issue you with your student card. Further information regarding what your ID card is used for will be provided on the day.This day will be a great opportunity to meet your peers, faculty and support staff, and to familiarise yourself with our facilities. |
| **Kit list / uniform**Workshop PPE It is essential that you have steel-toe work boots or shoes to be in the workshop. You will also need work trousers or overalls. Team Northbook Racing colours are black so this is the preferred colour for work trousers or overalls. Other PPE, such as protective glasses, will be provided. You will also be provided with a Team Northbrook racing T shirt and will have the option to purchase other TNR merchandise.ComputersIt is not essential that you purchase you own laptop or desktop computer as you will have access to computers at our college campuses. However, you might find having your own computer useful for assignment work and project work in your second year onwards. If you wish to use a computer for CAD, Matlab or Computational fluid dynamics software such as Ansys. You will also be able to access teaching resources such as Maths lesson videos from off site. You will have access to college software and emails from outside of college campuses, including Microsoft office and can use our online ebooks and e resources too. We will provide you with further details during your digital induction. If you do decide to purchase a computer, you may wish to consider the following: Windows based systems are generally more compatible with technical softwares than MAC.An i7 (or equivalent AMD processor) is needed for Solidworks and Ansys. Ansys is a very demanding program and usually requires at least 32GB of RAM. A minimum 1TB hard drive is recommended. You could have a SSD drive and non-SSD for storage if this is a more cost-effective option. If in doubt, please wait until your first week and ask for advice.In lessons Please come to lessons equipped with and A4 notebook, pen and calculator. A simple CASIO scientific calculator such as the FX- 85DE, FX-350ES or FX-991ESPlus will suffice and is suitable for Maths exams. If you have any queries regarding this list, please email emma.norton@gbmc.ac.uk or ask at your Induction Day.**Reading list**The books and titles listed below offer a general introduction to modules on our Level 4 courses.Additional texts are recommended in the detailed module descriptors which will be available to you from our Virtual Learning Environment (VLE) from September.You do not have to purchase any of these, but if you choose to do so, many previous editions will be good enough for your studies (eg John Bird’s Maths books). Our Maths tutor Duncan Wethered will be happy to discuss this with you during induction week.**Individual Project**Boud, D. *Enhancing Learning through Self-Assessment.* (Kogan Page)ISBN 0749413689Seely, J. *One Step Ahead: Writing Reports.* (Open University Press) ISBN: 0198662831Smith, D. *Delivering People and Organising.* (Kogan – Page)ISBN: 074926802Thompson, L. *Making the Team, A Guide for Managers.* (Prentice Hall)ISBN 0131416588 Society of Automotive Engineers (SAE); Online Resource at [**http://www.sae.org/]****Group Project** Boud, D. *Enhancing Learning through Self-Assessment.* (Kogan, Page)ISBN 0749413689Seely, J. *One Step Ahead: Writing Reports.* (Open University Press) ISBN: 0198662831Smith, D. *Delivering People and Organising.* (Kogan, Page)ISBN: 074926802Thompson, L. *Making the Team, A Guide for Managers.* (Prentice Hall)ISBN 0131416588 Society of Automotive Engineers (SAE); Online Resource at [**http://www.sae.org/]****Maths**Stroud.K.A & Booth.D.J (2011) Advanced Engineering Mathematics (Palgrave Macmillan)Singh, K Engineering Mathematics through applications (Reg Globe, 2011) ISBN 978023027479Acheson, D The calculus story. A Mathematical adventive (OUP, 2017)Stroud K A – Engineering Mathematics (Macmillan Press, 2020 01), ISBN 1352010275James G – Modern Engineering Mathematics (Prentice Hall, 2000), ISBN 0130183199Society of Automotive Engineers (SAE); Online Resource at [**http://www.sae.org/**]Bird, J – Higher Engineering Mathematics (Routledge 2021) ISBN 0367643731NAGAR S, Introduction to MATLAB for Engineers and scientists Solutions for numerical computation and modelling, ISBN 9781484231883 (Apress, 2017)Eshkabilor, S. Beginning MATLAB and Simulink: From beginner to Pro. (Apress, 2022) ISBN 1484287479Duffey DG Advanced Engineering Mathematics with MATLAB (3rd Edition) (LRC, 2010) ISBN 1439816247.**Automotive Aerodynamics and Race Car Design**Barnard, R.H. (2010). ‘Road *Vehicle Aerodynamic Design – an Introduction’* 3rd Edition. Mechaero, ISBN: 0-9540734-0-1Hucho, W. H. (1998). ‘Aerodynamics *of Road Vehicles’* 4th Edition. ES Publications, ISBN: 978-076800029Katz, J. (2006). ‘Race *Car Aerodynamics – Designing for Speed’.* Robert Bently, ISBN: 0-8376-0142-8Seward, D. (2014). ‘Race *Car Design’*. Pallgrave MacMillan, ISBN: 978-1137030146McBeath, S. (2017). ‘Competition *Car Aerodynamics’* 3rd Edition. Veloce Publishing Ltd., ISBN: 978-1787111028Wright, P. (2001). ‘Formula *1 Technology.*’ Society of Automotive Engineers, ISBN: 978-0768002348**Powertrain**Bosch, Automotive Handbook. Ehsani M, Gao Y, Gay SE, Modern Electronic Hybrid Electric and Fuel Cell Vehicles, Pub. CRC Press.Heisler H, Advanced Engine Technology, Pub. Arnold.Stone R, Introduction to Internal Combustion Engines, Pub. SAELatest editions of the following texts:Hackley, C.E. and Hackley, R.A. (2017). Advertising and Promotion (4th Edition). SAGE Publications Ltd. 384pp ISBN 978-1473997998Henry, N., Angus, T., and Jenkins, M. (2007). Motorsport Going Global: The Challenges Facing the World's Motorsport Industry. AIAA 188pp ISBN:978-1860584589Jenkins, M. Pasternak, K and West, R. (2016). Performance at the Limit: Business Lessons from Formula 1® Motor Racing (3rd Edition) CambridgeUniversity Press 266pp, ISBN: 978-1107136120McBeath,S. (2008), Competition Car Data Logging: A Practical Handbook (2nd Edition) . Haynes and Co. Publishing Ltd, 160pp. ISBN 978-1844255658Mourao, P. (2017). The Economics of Motorsports: The Case of Formula One (1st edition). Palgrave Macmillan; 1st ed. 2017. 328pp ISBN: 978-1137602480Walsh, C. (2008). Key management Ratios (4th Edition). Financial Times/ Prentice Hall 408pp. ISBN: 978-0273719090 |
| **Summer tasks**If you have not yet completed your pre-enrolment form for this course, please do so now. You should have received an email from us with instructions and a link to the form.The link would have been sent to the email address that you first registered with so it may be worth checking your spam folder.You will be notified of this shortly  |
| **Other**Your **email** address and Microsoft access address will be of the format: \*\*\*\*\*\*\*@stu.gbmc.ac.uk**Disability Support Allowance**If you have been diagnosed as having a support need or suspect you may have a specific learning difficulty, you can apply for the Disabled Students’ Allowance (DSA) before you start your course. For more information, please visit the Student Finance England DSA site <https://www.gov.uk/disabled-students-allowances-dsas>. |
| **Contact details**If you have any questions or queries, please do not hesitate to contact us by emailing AdminteamBWSA@gbmc.ac.uk or calling 01273 45636**Travelling to the campus:**Please find relevant information about travelling to our Shoreham campus using the link below:<https://www.northbrook.ac.uk/college-life/our-campuses/>If you would like to get a sense of the layout of the college in advance of arriving please [click here to see campus maps.](https://ccgonline.chichester.ac.uk/course/view.php?id=2626&section=10) |