

Annex A

In total, there are:

- 63 short courses
- 55 semester long undergraduate courses
- 8 semester long postgraduate courses

Here are some examples of courses for alumni with descriptions:

Short Courses	
Innovating for Results	<p>Designed for a broad range of individuals such as managers, executives, team leaders, and specialists, this programme inspires and creates in participants the ability to turn ideas into new and better products and services, integrating their personal efforts into their organisational processes.</p> <p>It aims to help participants recognise that innovation is a top priority and if managed and synchronised into a system as a collaborative process, the likelihood of success is far greater. When innovation becomes part of an organisation's culture, it takes on even greater potential for organisational effectiveness.</p>
DIY Analytics – Making data-driven decisions for a more profitable business	<p>Companies are focusing on business insights as the primary input into business strategy formulation, marketing, and operations. The more business insights a company has about the customer, the competition, and the market, the better the position it will be in to increase its revenues and profits. Companies which have good business insights will almost always perform better than others.</p> <p>The objective of this course is to equip individuals (and companies) with the tools and frameworks to conduct data analytics which can add value to their firm(s).</p>
Leading Beyond Managing	<p>Efficiency, effectiveness, productivity, and profitability – all are key objectives that every manager, executive, and leader strives to attain in today's business environment.</p> <p>The vision of having an effective organisation is now possible if we take the first step. The results obtained are the direct consequences of the performance of the people who are responsible for their work. Leading and maximising their performance is crucial to a business' success.</p> <p>This workshop is specially designed for you to take the first step in this exciting journey of leading your people to better performances acquired through a learning culture. Participants will learn how to both manage and lead a team.</p>
Crisis Communication - Learning from Case Studies	<p>This course will cover the nature of crises, examination of case studies, and practical exercises. Through the analysis of various case studies and scenario-based exercises, this course will highlight</p>

	<p>the importance of communication and practical techniques for the successful operational management of a major incident.</p>
Negotiation Skills	<p>Business research has found that in today's environment, effective negotiations are crucial. Win-win negotiations are necessary to create the results to succeed in the market today. People highly skilled in negotiation skills are able to manage situations more effectively whether with internal or external clients.</p> <p>This course will help participants acquire the necessary skills they need for effective negotiations.</p>
Cloud Computing - What IT Auditors Needs to Know	<p>Cloud computing has emerged as one of the most significant information technology developments over the past decade. As the new framework for the way IT solutions are designed, sourced, and used for services delivery, it offers organisations new and flexible ways to manage IT costs, scale IT operations, and streamline related processes. However, with new IT developments, new risks will emerge.</p> <p>This course will help participants understand the risk implications of moving to the cloud, as well as strategies for managing those risks.</p>
Generating Creative Ideas to Design Effective Graphics	<p>This course is designed to promote creative thinking in solving 2D design graphic problems.</p> <p>Participants will be introduced to different ways of thinking creatively to unlock their visual imagination. They will be presented with numerous graphic design problems which require them to solve through visual expression. There will also be opportunities for participants to evaluate effective graphics that communicate with impact such as in posters, invitations, flyers, brochures, signages etc.</p>
WSQ Apply Statistics for Lean Six Sigma	<p>WSQ Applying Statistics for Lean Six Sigma builds measurement and analytical skills that enable more refined and sophisticated use of data. These newly acquired skills and techniques then become the "power tools" which all Lean Six Sigma Practitioners apply when charts, graphs and "descriptive" data methods fall short.</p> <p>Just as important as it is to know how to apply these analytical methods, this workshop emphasises when and why statistical tools should be applied to add value to the organisation.</p>
Strategic Operations Leadership	<p>The dynamic and globally competitive nature of the business environment requires operations leaders to align their efforts for effective business strategy execution.</p> <p>There is a need for operations leaders to move beyond traditional manufacturing and operations LEAN type initiatives to proactive thinking, operations strategy design, and decision making in order to support business strategy deployment and long term competitive positioning.</p>

Semester Long Undergraduate Courses	
MS4014 Nanomaterials – Fundamentals and Applications	<p>This course aims to provide a comprehensive overview of nanomaterials in terms of synthesis, characterization, properties and applications. It will cover the fundamental scientific principles for the different synthesis techniques, assembly of nanostructured materials, and new physical and chemical properties at the nanoscale. Existing and emerging applications will be discussed through case studies e.g. magnetic nanoparticles for drug delivery & MRI imaging, nanoparticle catalysts for fuel cells, nanostructured electrodes for batteries & capacitors, and quantum dots for imaging.</p> <p>With these real-life case studies, graduates of this course will understand how nanomaterials theory is applied from an engineering perspective. They will also learn about the operational philosophy behind cutting edge nano-fabrication and nano-characterization tools such as E-Beam Lithography systems and Laser-writing tools for mask making.</p>
BS4004 Current Topics in Immunology	<p>Selected topics in immunology will be covered in-depth. Students are expected to read and interpret original research publications and perform extensive literature search on selected topics in immunology.</p> <p>In addition to the 10 lectures of selected subjects, this course also requires students to present an assigned research paper and compose an original research proposal. To accomplish this assignment, students need to carefully study the most recent research findings and be able to identify the unsolved problems or knowledge gaps in the selected research field. Finally, they will propose experimental strategies to solve the problems in the research proposal.</p> <p>In this way, the students are encouraged to utilize the knowledge they have acquired throughout the years, instead of just memorise the facts.</p>
CZ4062 Computer Security (System Security)	<p>This course aims to help students understand security mechanisms in modern computer systems, its role, and its importance and understand techniques for implementing security policies.</p> <p>It will also teach students how to use and operate access-control mechanisms as well as introduce them to vulnerabilities associated with computer systems, and how they can be mitigated.</p>
EE4188 Wireless Communications	<p>This course is intended to introduce students to the basics of wireless systems – concepts, theory, limitations, and costs of systems mainly for VHF and above. In addition, multiple access techniques and the cellular concept as well as some 2G and 3G systems will also be taught.</p> <p>At the end of the course, students will be able to understand the design, specifications, and the performances of various wireless communication systems.</p>

BG3105 Biomedical Instrumentation	This course introduces biomedical instruments and their working principles. It introduces students to topics such as the basic concepts of medical instrumentation, basic sensors and transducers, amplifiers and signal processing, and basic physiology related to each measurement.
AB1201 Financial Management	<p>This course introduces students to the understanding and analysis of financial statements, fundamental concepts such as the time value of money, risk and return, corporate financing choices and investment analysis, and financial risk management.</p> <p>After taking this course, students will be well prepared for other advanced courses in finance such as Advanced Corporate Finance, Equity Securities, Fixed Income Securities, Derivatives Securities, and International Financial Management.</p>
MA2001 Mechanics of Materials	The objective of this course is to impart to students the knowledge about fundamental mechanics required for understanding the relations between the loading applied to a body, the material constitution of the body, and the resulting stresses and deformations of the material.
Semester Long Postgraduate Courses	
EE6604 Advanced Topics in Semiconductor Devices	<p>This course is intended for beginning graduate students and practicing research & development engineers.</p> <p>The course will cover the basic principles of the operation of the bipolar junction transistor (BJT) and the metal oxide semiconductor field effect transistor (MOSFET). The applications of the MOSFET in semiconductor memory will be described. More recent developments in heterojunction devices will also be presented. In addition, some new semiconductor devices and future trends will also be introduced.</p>
EE6601 Advanced Wafer Processing	Students will be exposed to state-of-the-art advanced complementary metal-oxide-semiconductor process technologies. They will also be exposed to future technology. They will also become more familiar with the relevant diagnostic techniques for process related issues.

Annex B

Nanyang Alumni Awards winners for 2017

Nanyang Distinguished Alumni Award 南洋卓越校友奖	
1. Prof Ng Yew Kwang (75 yrs) 黄有光教授	B.Comm. / Class of 1966
2. Mr Chang Long Jong (57 yrs) 章能容先生	B.Eng.(Civil) / Class of 1985
Nanyang Alumni Achievement Award 南洋校友成就奖	
1. Tan Sri Dato' Chua Ma Yu (65 yrs) 丹斯里拿督蔡馮友先生	B.Comm. / Class of 1975
2. Dr Hoan Beng Mui Dora (64 yrs) 范文瑁博士	B.A. / Class of 1975
3. Mr Chua Chong Kheng (58 yrs) 蔡崇庆先生	B.Eng.(Elect.) / Class of 1985
4. Mr Han Kwee Juan (49 yrs) 韩贵元先生	M.B.A.(B.&F.) / Class of 1996
5. Prof Phee Soo Jay Louis (46 yrs) 彭树捷教授	B.Eng.(Mech.) / Class of 1996 M.Eng. / Class of 1999
6. Dr Sun Xia (53 yrs) 孙侠博士	M.B.A.(Nanyang EMBA) / Class of 2006
7. Mrs Reshu Aryal Dhungana (40 yrs) 蕾淑·阿雅·东加纳女士	M.A. / Class of 2014 National Institute of Education
Nanyang Outstanding Young Alumni Award 南洋杰出青年校友奖	
1. Ms Rezia Rahumathullah (39 yrs) 雷姿娅·拉胡马图拉女士	B.A.Dip.Ed. / Class of 2002 M.A. / Class of 2007 National Institute of Education
2. Mr Chye Choon Hoong Adrian (38 yrs) 蔡俊宏先生	B.Eng.(Comp.Eng.) / Class of 2004 G.Dip.TIP / Class of 2004 M.Sc.(TIP) / Class of 2007
3. Ms Wong Jin-Lin Gillian (35 yrs) 黄敬龄女士	B.Comm.Studies(Hons.) / Class of 2005
4. Mr Wah Ziyuan Steve (35 yrs) 华梓渊先生	B.Eng.(Mech.) / Class of 2007 M.Sc.(TIP) / Class of 2009
5. Mr Li Jie (38 yrs) 李杰先生	M.Sc.(Finance) / Class of 2008
6. Dr Tan Say Hwa (35 yrs) 陈世华博士	B.Eng.(Mech.) / Class of 2008 M.Eng. / Class of 2011
7. Mr Lau Koon Tuck Vincent (33 yrs) 劉冠德先生	B.Eng.(Matl.Eng.) / Class of 2009
8. Dr Nuraliah Bte Norasid (31 yrs) 努拉丽雅·诺拉西博士	B.A.(Hons.)English / Class of 2009 Ph.D. / Class of 2015
9. Mr Tam Kwan Yuen (31 yrs) 譚鈞元先生	B.F.A.(Hons.) / Class of 2012
10. Dr Sim Siang Tze Victor (34 yrs) 沈善之博士	Ph.D. / Class of 2015

Nanyang Alumni Service Award 南洋校友服务奖

1. Mr Fong Cheng Ek (70 yrs) 冯增益先生	B.A. / Class of 1970
2. Ms Ng Kim Guat (58 yrs) 黄金月女士	B.A. / Class of 1980
3. Mr Choy Kok Seng Chris (55 yrs) 蔡国诚先生	B.Eng.(Civil) / Class of 1986
4. Mr Teoh Tham Kim Raymond (49 yrs) 张淡金先生	B.Eng.(Elect.) / Class of 1993
5. Mr Chong Kwang Cheong Robert (54 yrs) 张光昌先生	M.B.A.(Acc.) / Class of 1995
6. Mr Tan Hui Lim William (47 yrs) 陳伟林先生	B.Eng.(Mech.) / Class of 1997
7. Mr Zhang Yu (46 yrs) 张宇先生	M.Eng. / Class of 2004
8. Mr Maung Myo Thu (40 yrs) 茂妙杜先生	B.Eng.(Mech.) / Class of 2004
9. Mr Zhang Yinjun (44 yrs) 张印君先生	Short Executive Programme / Class of 2005
10. Ms Siripattananukulchai Chonnikan (35 yrs) 西里帕塔娜库尔差·春妮坎女士	B.Eng.(Comp.Eng.) / Class of 2005
11. Mr Ruan Yonggang (58 yrs) 阮永刚先生	M.B.A.(Nanyang EMBA) / Class of 2007
12. Mr Zeng Renchun (35 yrs) 曾仁春先生	B.Sc.(Hons.)BS / Class of 2008
13. Mr Cheah Wai Soon (35 yrs) 谢维顺先生	B.Eng.(Elect.) / Class of 2008
14. Mr Tan Peng Hoe (32 yrs) 陈炳和先生	B.Eng.(Civil) / Class of 2009
15. Mr Teh Kai Feng (31 yrs) 郑凯丰先生	B.A.(Hons.)Sociology / Class of 2011
16. Mr Wang Xiaogang (55 yrs) 汪晓刚先生	M.B.A.(Nanyang EMBA) / Class of 2011
17. Mr Veerappa Rajan (30 yrs) 维拉帕·拉詹先生	B.Eng.(Mech.) / Class of 2012
18. Ms Jayalakshmy Aarthi Ananthanarayanan (26 yrs) 贾亚拉科诗米·阿南塔娜拉雅南女士	B.Sc.(Hons.)SSM / Class of 2013