



# Digital Technologies

## School of Digital Technologies Timetable 2019

Q1 - Quarter 1, Q2 - Quarter 2  
Q3 - Quarter 3 and Q4 - Quarter 4

There will be a three weeks break between each quarter.

### Important Dates – Orientation

Q1 - 22 February 2019

Q2 - 10 May 2019

Q3 - 26 July 2019

Q4 -11 October 2019

T4a

Prior to selecting your courses and occurrences, please ensure that you work with both the relevant Enrolment Guide [PG4] and the latest version of this timetable [T4a]. Visit <http://www.manukau.ac.nz/fobitguide>

The EFTS and credit value for each course is reflected below in the timetable.

PROGRAMMES OFFERED IN DIGITAL TECHNOLOGIES		Page
NZ2594	NEW ZEALAND CERTIFICATE IN IT ESSENTIALS (LEVEL 4)	2
NZ2596	NEW ZEALAND DIPLOMA IN IT TECHNICAL SUPPORT (LEVEL 5)	3
NZ2601	NEW ZEALAND DIPLOMA IN SYSTEMS ADMINISTRATION (LEVEL 6)	6
MN4563	BACHELOR OF DIGITAL TECHNOLOGIES (LEVEL7) (with majors in Networking, Software and Web Development and Data Analytics)	8
MN4564	GRADUATE DIPLOMA IN NETWORKING (LEVEL7)	19
MN4565	GRADUATE DIPLOMA IN SOFTWARE AND WEB DEVELOPMENT (LEVEL7)	21
MN4566	GRADUATE DIPLOMA IN DATA ANALYTICS (LEVEL7)	23

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
<b>NEW ZEALAND CERTIFICATE IN IT ESSENTIALS (LEVEL 4) (15 Credits = 0.1250 EFTS)</b>				
563.402 Stepping into IT	<b>Occurrence 19-MC-11</b> Mon 9:00-11:00 am Tue 11:00-1:00 pm Thu 11:00-1:00 pm Fri 11:00-1:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Mon 9:00-11:00 am Tue 11:00-1:00 pm Thu 11:00-1:00 pm Fri 11:00-1:00 pm	Not Offered
563.403 Information Systems Solutions	<b>Occurrence 19-MC-11</b> Mon 11:00-1:00 pm Tue 1:00-3:00 pm Wed 1:00-3:00 pm Thu 1:00-3:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Mon 11:00-1:00 pm Tue 9:00-11:00 am Thu 1:00-3:00 pm Fri 9:00-11:00 am	Not Offered
566.401 Creating Websites	Not Offered	<b>Occurrence 19-MC-21</b> Tue 2:00-4:00 pm Wed 8:00-10:00 am Thu 3:00-5:00 pm Fri 11:00-1:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 2:00-4:00 pm Wed 8:00-10:00 am Thu 3:00-5:00 pm Fri 11:00-1:00 pm
562.412 Developing Software	Not Offered	<b>Occurrence 19-MC-21</b> Tue 11:00-1:00 pm Wed 11:00-1:00 pm Thu 1:00-3:00 pm Fri 9:00-11:00 am	Not Offered	<b>Occurrence 19-MC-41</b> Tue 11:00-1:00 pm Wed 11:00-1:00 pm Thu 1:00-3:00 pm Fri 9:00-11:00 am

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
<b>NEW ZEALAND DIPLOMA IN IT TECHNICAL SUPPORT (LEVEL 5) (15 Credits = 0.1250 EFTS)</b>				
501.502 IT and Team Communication	<b>Occurrence 19-MC-11</b> Mon 9:00-12:00 pm Wed 9:00-12:00 pm Thu 1:00-3:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Mon 9:00-12:00 pm Wed 9:00-12:00 pm Thu 1:00-3:00 pm	Not Offered
502.521 Fundamentals of Software Development  <i>[Please choose on occurrence only]</i>	Not Offered	<b>Occurrence 19-MC-21</b> Tue 12:00-2:00 pm Wed 10:00-1:00 pm Fri 8:00-11:00 am  <b>OR</b>  <b>Occurrence 19-MC-22</b> Mon 8:00-10:00 am Tue 8:00-11:00 am Thu 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-41</b> Tue 12:00-2:00 pm Wed 10:00-1:00 pm Fri 8:00-11:00 am  <b>OR</b>  <b>Occurrence 19-MC-42</b> Mon 8:00-10:00 am Tue 8:00-11:00 am Thu 8:00-11:00 am

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
561.590 Business Information Systems  <i>[Please choose on occurrence only]</i>	<b>Occurrence 19-MC-11</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm Thu 9:00-11:00 am  <b>OR</b>  <b>Occurrence 19-MC-12</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm Thu 9:00-11:00 am	Not Offered	<b>Occurrence 19-MC-31</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm Thu 9:00-11:00 am	Not Offered
565.586 Computer Architecture  <i>[Please choose on occurrence only]</i>	Not Offered	<b>Occurrence 19-MC-21</b> Mon 2:00-5:00 pm Tue 8:00-10:00 am Wed 2:00-5:00 pm  <b>OR</b>  <b>Occurrence 19-MC-22</b> Tue 2:00-4:00 pm Wed 10:00-1:00 pm Fri 8:00 10:00 am	Not Offered	<b>Occurrence 19-MC-41</b> Mon 2:00-5:00 pm Tue 8:00-10:00 am Wed 2:00-5:00 pm  <b>OR</b>  <b>Occurrence 19-MC-42</b> Tue 2:00-4:00 pm Wed 10:00-1:00 pm Fri 8:00 10:00 am

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
565.587 Computer Networks	<b>Occurrence 19-MC-11</b> Mon 11:00-2:00 pm Tue 10:30-1:30 pm Thu 11:30-1:30 pm	Not Offered	<b>Occurrence 19-MC-31</b> Mon 11:00-2:00 pm Tue 10:30-1:30 pm Thu 11:30-1:30 pm	Not Offered
565.589 Fundamentals of Computer Systems Administration	Not Offered	<b>Occurrence 19-MC-21</b> Mon 8:00-11:00 am Wed 8:00-10:00 am Thu 3:00-6:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Mon 8:00-11:00 am Wed 8:00-10:00 am Thu 3:00-6:00 pm
564.532 Introduction to Databases <i>[Please choose on occurrence only]</i>	Not Offered	<b>Occurrence 19-MC-21</b> Tue 2:00-5:00 pm Wed 2:00-5:00 pm Fri 12:00-2:00 pm  <b>OR</b> <b>Occurrence 19-MC-22</b> Mon 11:00-2:00 pm Tue 12:00-2:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 2:00-5:00 pm Wed 2:00-5:00 pm Fri 12:00-2:00 pm  <b>OR</b> <b>Occurrence 18-MC-42</b> Mon 11:00-2:00 pm Tue 12:00-2:00 pm Thu 11:00-2:00 pm
565.588 IT Support and Services	<b>Occurrence 19-MC-11</b> Mon 2:30-5:30 pm Tue 8:00-10:00 am Thu 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-31</b> Mon 2:30-5:30 pm Tue 8:00-10:00 am Thu 8:00-11:00 am	Not Offered

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
<b>NEW ZEALAND DIPLOMA IN SYSTEMS ADMINISTRATION (LEVEL 6) (15 Credits = 0.1250 EFTS)</b>				
565.689 Advanced Server Services  <i>[Please choose on occurrence only]</i>  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	<b>Occurrence 19-MC-11</b> Tue 2:30-5:30 pm Thu 9:00-12:00 pm  <b>OR</b> <b>Occurrence 19-MC-12</b> Mon 9:00-12:00 pm Wed 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-31</b> Tue 2:30-5:30 pm Thu 9:00-12:00 pm  <b>OR</b> <b>Occurrence 19-MC-32</b> Mon 9:00-12:00 pm Wed 8:00-11:00 am	Not Offered
562.616 Automated System Deployment  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	Not Offered	<b>Occurrence 19-MC-21</b> Tue 8:00-11:00 am Thu 2:00-5:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 8:00-11:00 am Thu 2:00-5:00 pm
563.683 Change and Project Management in IT	<b>Occurrence 19-MC-11</b> Mon 3:00-6:00 pm Wed 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-31</b> Mon 3:00-6:00 pm Wed 8:00-11:00 am	Not Offered
565.691 Directory Services  <i>[Please choose on occurrence only]</i>  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	<b>Occurrence 19-MC-11</b> Mon 11:00-2:00 pm Fri 9:00-12:00 pm  <b>OR</b> <b>Occurrence 19-MC-12</b> Mon 12:00-3:00 pm Wed 2:00-5:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Tue 11:00-2:00 pm Fri 9:00-12:00 pm  <b>OR</b> <del><b>Occurrence 19-MC-32</b></del> <del>Mon 12:00-3:00 pm</del> <del>Wed 2:00-5:00 pm</del> <b>Cancelled</b>	Not Offered

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
561.647 Information Security  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	<b>Occurrence 19-MC-11</b> Mon 3:00-6:00 pm Wed 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Mon 8:00-11:00 am Wed 8:00-11:00 am	Not Offered
562.617 Messaging Services  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	Not Offered	<b>Occurrence 19-MC-21</b> Tue 2:00-5:00 pm Thu 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-41</b> Tue 2:00-5:00 pm Thu 8:00-11:00 am
565.690 Network Infrastructure  <b>[Please choose on occurrence only]</b>  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	Not Offered	<b>Occurrence 19-MC-21</b> Mon 9:00-12:00 pm Wed 9:00-12:00 pm  <b>OR</b> <b>Occurrence 19-MC-22</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Mon 8:00-11:00 am Wed 8:00-11:00 am  <b>OR</b> <b>Occurrence 19-MC-42</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm
561.645 Professional Practice in IT  <b>Pre-requisite:</b> 501.502 IT and Team Communication	Not Offered	<b>Occurrence 19-MC-21</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
<b>BACHELOR OF DIGITAL TECHNOLOGIES (LEVEL 7) (15 Credits = 0.1250 EFTS)</b>				
<b>LEVEL 5 COURSES</b>				
501.502 IT and Team Communication	<b>Occurrence 19-MC-11</b> Mon 9:00-12:00 pm Wed 9:00-12:00 pm Thu 1:00-3:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Mon 9:00-12:00 pm Wed 9:00-12:00 pm Thu 1:00-3:00 pm	Not Offered
502.521 Fundamentals of Software Development  <i>[Please choose one occurrence only]</i>	Not Offered	<b>Occurrence 19-MC-21</b> Tue 12:00-2:00 pm Wed 10:00-1:00 pm Fri 8:00-11:00 am  <b>OR</b> <b>Occurrence 19-MC-22</b> Mon 8:00-10:00 am Tue 8:00-11:00 am Thu 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-41</b> Tue 12:00-2:00 pm Wed 10:00-1:00 pm Fri 8:00-11:00 am  <b>OR</b> <b>Occurrence 19-MC-42</b> Mon 8:00-10:00 am Tue 8:00-11:00 am Thu 8:00-11:00 am
561.590 Business Information Systems  <i>[Please choose one occurrence only]</i>	<b>Occurrence 19-MC-11</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm Thu 9:00-11:00 am  <b>OR</b> <b>Occurrence 19-MC-12</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm Thu 9:00-11:00 am	Not Offered	<b>Occurrence 19-MC-31</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm Thu 9:00-11:00 am	Not Offered



Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
565.586 Computer Architecture  <i>[Please choose on occurrence only]</i>	Not Offered	<b>Occurrence 19-MC-21</b> Mon 2:00-5:00 pm Tue 8:00-10:00 am Wed 2:00-5:00 pm  <b>OR</b>  <b>Occurrence 19-MC-22</b> Tue 2:00-4:00 pm Wed 10:00-1:00 pm Fri 8:00 10:00 am	Not Offered	<b>Occurrence 19-MC-41</b> Mon 2:00-5:00 pm Tue 8:00-10:00 am Wed 2:00-5:00 pm  <b>OR</b>  <b>Occurrence 19-MC-42</b> Tue 2:00-4:00 pm Wed 10:00-1:00 pm Fri 8:00 10:00 am
565.587 Computer Networks	<b>Occurrence 19-MC-11</b> Mon 11:00-2:00 pm Tue 10:30-1:30 pm Thu 11:30-1:30 pm	Not Offered	<b>Occurrence 19-MC-31</b> Mon 11:00-2:00 pm Tue 10:30-1:30 pm Thu 11:30-1:30 pm	Not Offered
502.524 Fundamentals of Business Intelligence  <b>Co-requisite:</b> 564.532 Introduction to Databases	Not Offered	<b>Occurrence 19-MC-21</b> Mon 2:00-5:00 pm Wed 8:00-10:00 am Thu 3:00-6:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Mon 2:00-5:00 pm Wed 8:00-10:00 am Thu 3:00-6:00 pm

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
502.525 Front-End Web Development	Not Offered	<b>Occurrence 19-MC-21</b> Mon 8:00-10:00 am Tue 8:00-11:00 am Thu 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-41</b> Mon 8:00-10:00 am Tue 8:00-11:00 am Thu 8:00-11:00 am
565.589 Fundamentals of Computer Systems Administration	Not Offered	<b>Occurrence 19-MC-21</b> Mon 8:00-11:00 am Wed 8:00-10:00 am Thu 3:00-6:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Mon 8:00-11:00 am Wed 8:00-10:00 am Thu 3:00-6:00 pm
564.532 Introduction to Databases <i>[Please choose on occurrence only]</i>	Not Offered	<b>Occurrence 19-MC-21</b> Tue 2:00-5:00 pm Wed 2:00-5:00 pm Fri 12:00-2:00 pm  <b>OR</b> <b>Occurrence 19-MC-22</b> Mon 11:00-2:00 pm Tue 12:00-2:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 2:00-5:00 pm Wed 2:00-5:00 pm Fri 12:00-2:00 pm  <b>OR</b> <b>Occurrence 19-MC-42</b> Mon 11:00-2:00 pm Tue 12:00-2:00 pm Thu 11:00-2:00 pm
502.522 Object Oriented Programming  <b>Pre-requisite:</b> 502.521 Fundamentals of Software Development  <b>Co-requisite:</b> 502.523 System Analysis and Design	<b>Occurrence 19-MC-11</b> Tue 12:00-2:00 pm Wed 1:00-4:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Tue 12:00-2:00 pm Wed 1:00-4:00 pm Thu 11:00-2:00 pm	Not Offered

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
502.523 System Analysis and Design  <b>Co-requisite:</b> 502.522 Object Oriented Programming	<b>Occurrence 19-MC-11</b> Tue 8:00-11:00 am Wed 9:00-12:00 pm Thu 8:00-10:00 am	Not Offered	<b>Occurrence 19-MC-31</b> Tue 8:00-11:00 am Wed 9:00-12:00 pm Thu 8:00-10:00 am	Not Offered
565.588 IT Support and Services	<b>Occurrence 19-MC-11</b> Mon 2:30-5:30 pm Tue 8:00-10:00 am Thu 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-31</b> Mon 2:00-5:00 pm Tue 8:00-10:00 am Thu 8:00-11:00 am	Not Offered

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
<b>LEVEL 6 COURSES</b>				
565.689 Advanced Server Services <i>[Please choose on occurrence only]</i>  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	<b>Occurrence 19-MC-11</b> Tue 2:30-5:30 pm Thu 9:00-12:00 pm  <b>OR</b> <b>Occurrence 19-MC-12</b> Mon 9:00-12:00 am Wed 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-31</b> Tue 2:30-5:30 pm Thu 9:00-12:00 pm  <b>OR</b> <b>Occurrence 19-MC-32</b> Mon 9:00-12:00 am Wed 8:00-11:00 am	Not Offered
562.613 Applied Data Structures  <b>Pre-requisite:</b> 502.522 Object-Oriented Programming <b>AND</b> 502.634 UX/UI Design	Not Offered	<b>Occurrence 19-MC-21</b> Mon 1:30-4:30 pm Wed 1:00-4:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Mon 1:00-4:00 pm Wed 8:00-11:00 am
562.614 Applied Software Testing  <b>Pre-requisite:</b> 502.522 Object-Oriented Programming	<b>Occurrence 19-MC-11</b> Tue 8:00-11:00 am Thu 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-31</b> Tue 8:00-11:00 am Thu 8:00-11:00 am	Not Offered
562.616 Automated System Deployment  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	Not Offered	<b>Occurrence 19-MC-21</b> Tue 8:00-11:00 am Thu 2:00-5:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 8:00-11:00 am Thu 2:00-5:00 pm

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
563.684 Big Data Analysis  <b>Pre-requisite:</b> 502.524 Fundamentals of Business Intelligence <b>AND</b> 564.532 Introduction to Databases	<b>Occurrence 19-MC-11</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm	Not Offered
563.685 Business Statistics for Decision Modelling	<b>Occurrence 19-MC-11</b> Tue 3:00-6:00 pm Thu 3:00-6:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Tue 3:00-6:00 pm Thu 3:00-6:00 pm	Not Offered
563.683 Change and Project Management in IT	<b>Occurrence 19-MC-11</b> Mon 3:00-6:00 pm Wed 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-31</b> Mon 3:00-6:00 pm Wed 8:00-11:00 am	Not Offered
562.615 Cloud Computing for Software Developers  <b>Pre-requisite:</b> 502.522 Object-Oriented Programming <b>AND</b> 564.532 Introduction to Databases	<b>Occurrence 19-MC-11</b> Mon 11:00-2:00 pm Wed 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Mon 11:00-2:00 pm Wed 11:00-2:00 pm	Not Offered
563.686 Data Analytics and Intelligence  <b>Pre-requisite:</b> 502.524 Fundamentals of Business Intelligence	Not Offered	<b>Occurrence 19-MC-21</b> Mon 8:00-11:00 am Thu 8:00-11:00 am	Not Offered	<b>Occurrence 18-MC-41</b> Mon 8:00-11:00 am Thu 8:00-11:00 am

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
564.683 Database Application Development  <b>Pre-requisite:</b> 564.532 Introduction to Databases	Not Offered	<b>Occurrence 19-MC-21</b> Tue 8:00-11:00 am Thu 2:00-5:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 8:00-11:00 am Thu 2:00-5:00 pm
565.691 Directory Services  <b>[Please choose on occurrence only]</b>  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	<b>Occurrence 19-MC-11</b> Mon 11:00-2:00 pm Fri 9:00-12:00 pm  <b>OR</b> <b>Occurrence 19-MC-12</b> Mon 12:00-3:00 pm Wed 2:00-5:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Tue 11:00-2:00 pm Fri 9:00-12:00 pm  <b>OR</b> <b>Occurrence 19-MC-32</b> Mon 12:00-3:00 pm Wed 2:00-5:00 pm	Not Offered
502.632 Full Stack Web Development  <b>Pre-requisite:</b> 502.525 Front-End Web Development; 502.522 Object-Oriented Programming <b>AND</b> 564.532 Introduction to Databases	<b>Occurrence 19-MC-11</b> Tue 2:00-5:00 pm Thu 2:00-5:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Tue 2:00-5:00 pm Thu 2:00-5:00 pm	Not Offered
561.647 Information Security  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	<b>Occurrence 19-MC-11</b> Mon 3:00-6:00 pm Wed 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Mon 8:00-11:00 am Wed 8:00-11:00 am	Not Offered

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
562.617 Messaging Services  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	Not Offered	<b>Occurrence 19-MC-21</b> Tue 2:00-5:00 pm Thu 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-41</b> Tue 2:00-5:00 pm Thu 8:00-11:00 am
565.690 Network Infrastructure  <b>[Please choose on occurrence only]</b>  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	Not Offered	<b>Occurrence 19-MC-21</b> Mon 8:00-11:00 am Wed 8:00-11:00 am  <b>OR</b> <b>Occurrence 19-MC-22</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Mon 8:00-11:00 am Wed 8:00-11:00 am  <b>OR</b> <b>Occurrence 19-MC-42</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm
561.645 Professional Practice in IT  <b>Pre-requisite:</b> 501.502 IT and Team Communication	Not Offered	<b>Occurrence 19-MC-21</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm
565.692 Software Defined Networking  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	Not Offered	<b>Occurrence 19-MC-21</b> Mon 1:00-4:00 pm Wed 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-41</b> Mon 1:00-4:00 pm Wed 8:00-11:00 am
502.633 Software Engineering  <b>Pre-requisite:</b> 502.523 System Analysis and Design	<b>Occurrence 19-MC-11</b> Mon 8:00-11:00 am Wed 2:00-5:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Mon 8:00-11:00 am Wed 2:00-5:00 pm	Not Offered

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
502.634 User Experience and User Interface Design (UX/UI Design)  <i>[Please choose on occurrence only]</i>  <b>Pre-requisite:</b> 502.522 Object-Oriented Programming <b>AND</b> 502.523 System Analysis and Design	Not Offered	<b>Occurrence 19-MC-21</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm  <b>OR</b> <b>Occurrence 19-MC-22</b> Mon 4:00-7:00 pm Wed 4:00-7:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm
565.693 Wireless Networks  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	Not Offered	<b>Occurrence 19-MC-21</b> Mon 4:00-7:00 pm Thu 4:00-7:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 4:00-7:00 pm Wed 4:00-7:00 pm
<b>LEVEL 7 COURSES</b>				
563.784 Advanced Data Analytics  <b>Pre-requisite:</b> 563.686 Data Analytics & Intelligence, 563.684 Big Data Analysis <b>AND</b> 563.685 business Statistics for Decision Modelling	<b>Occurrence 19-MC-11</b> Mon 9:00-12:00 am Wed 1:00-4:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Mon 9:00-12:00 am Wed 1:00-4:00 pm	Not Offered



Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
565.784 Cloud Computing  <i>[Please choose on occurrence only]</i>  <b>Pre-requisite:</b> 565.690 Network Infrastructure <b>AND</b> 565.691 Directory Services	<b>Occurrence 19-MC-11</b> Tue 8:00-11:00 am Thu 1:00-4:00 pm  <b>OR</b>  <b>Occurrence 19-MC-12</b> Tue 5:30-8:30 pm Thu 5:30-8:30 pm	Not Offered	<b>Occurrence 19-MC-31</b> Tue 8:00-11:00 am Thu 1:00-4:00 pm	Not Offered
563.785 Hot Topic in Data Analytics	Not Offered	<b>Occurrence 19-MC-21</b> Tue 2:00-5:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 2:00-5:00 pm Thu 11:00-2:00 pm
565.783 Hot Topic in Networking  <b>Pre-requisite:</b> 565.690 Network Infrastructure <b>AND</b> 565.691 Directory Services	Not Offered	<b>Occurrence 19-MC-21</b> Tue 2:00-5:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 2:00-5:00 pm Thu 11:00-2:00 pm
502.714 Hot Topic in Software	<del><b>Occurrence 18-MC-11</b></del> <del>Tue 9:00-12:00 pm</del> <del>Wed 1:00-4:00 pm</del>  <b>Cancelled</b>	<b>Occurrence 19-MC-21</b> Tue 2:00-5:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 2:00-5:00 pm Thu 11:00-2:00 pm

<p>502.715 Mobile Application Development</p> <p><b>Pre-requisite:</b> 564.532 Introduction to Databases; 502.522 Object Oriented Programming <b>AND</b> 502.634 UX/UI Design</p>	<p>Not Offered</p>	<p><b>Occurrence 19-MC-21</b> Mon 10:00-1:00 pm Wed 10:00-1:00 pm</p>	<p>Not Offered</p>	<p><b>Occurrence 19-MC-41</b> Mon 10:00-1:00 pm Wed 10:00-1:00 pm</p>
<p>563.783 Management of ICT</p> <p><b>Pre-requisite:</b> 561.590 Business Information Systems <b>AND</b> 563.683 Change &amp; Project Management in IT</p>	<p><b>Occurrence 19-MC-11</b> Mon 2:00-5:00 pm Wed 1:00-4:00 pm</p>	<p><b>Occurrence 19-MC-21</b> Mon 2:00-5:00 pm Wed 1:00-4:00 pm</p>	<p><b>Occurrence 19-MC-31</b> Mon 2:00-5:00 pm Wed 1:00-4:00 pm</p>	<p><b>Occurrence 19-MC-41</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm</p>

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
<b>GRADUATE DIPLOMA IN NETWORKING (LEVEL 7) (15 Credits = 0.1250 EFTS)</b>				
<b>LEVEL 6 COURSES</b>				
565.689 Advanced Server Services <i>[Please choose on occurrence only]</i>  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	<b>Occurrence 19-MC-11</b> Tue 2:30-5:30 pm Thu 9:00-12:00 pm  <b>OR</b> <b>Occurrence 19-MC-12</b> Mon 9:00-12:00 pm Wed 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-31</b> Tue 2:30-5:30 pm Thu 9:00-12:00 pm  <b>OR</b> <b>Occurrence 19-MC-32</b> Mon 9:00-12:00 pm Wed 8:00-11:00 am	Not Offered
565.691 Directory Services  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	<b>Occurrence 19-MC-11</b> Mon 11:00-2:00 pm Fri 9:00-12:00 pm  <b>OR</b> <b>Occurrence 19-MC-12</b> Mon 12:00-3:00 pm Wed 2:00-5:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Tue 11:00-2:00 pm Fri 9:00-12:00 pm  <b>OR</b> <b>Occurrence 19-MC-32</b> Mon 12:00-3:00 pm Wed 2:00-5:00 pm	Not Offered
565.690 Network Infrastructure <i>[Please choose on occurrence only]</i>  <b>Pre-requisite:</b> 565.586 Computer Architecture <b>AND</b> 565.587 Computer Networks	Not Offered	<b>Occurrence 19-MC-21</b> Mon 8:00-11:00 am Wed 8:00-11:00 am  <b>OR</b> <b>Occurrence 19-MC-22</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Mon 8:00-11:00 am Wed 8:00-11:00 am  <b>OR</b> <b>Occurrence 19-MC-42</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
<b>LEVEL 7 COURSES</b>				
565.784 Cloud Computing <i>[Please choose on occurrence only]</i>  <b>Pre-requisite:</b> 565.690 Network Infrastructure <b>AND</b> 565.691 Directory Services	<b>Occurrence 19-MC-11</b> Tue 8:00-11:00 am Thu 1:00-4:00 pm  <b>OR</b> <b>Occurrence 19-MC-12</b> Tue 5:30-8:30 pm Thu 5:30-8:30 pm	Not Offered	<b>Occurrence 19-MC-31</b> Tue 8:00-11:00 am Thu 1:00-4:00 pm	Not Offered
565.783 Hot Topic in Networking  <b>Pre-requisite:</b> 565.690 Network Infrastructure <b>AND</b> 565.691 Directory Services	Not Offered	<b>Occurrence 19-MC-21</b> Tue 2:00-5:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 2:00-5:00 pm Thu 11:00-2:00 pm
563.783 Management of ICT  <b>Pre-requisite:</b> 561.590 Business Information Systems <b>AND</b> 563.683 Change & Project Management in IT	<b>Occurrence 19-MC-11</b> Mon 2:00-5:00 pm Wed 1:00-4:00 pm	<b>Occurrence 19-MC-21</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm	<b>Occurrence 19-MC-31</b> Mon 2:00-5:00 pm Wed 1:00-4:00 pm	<b>Occurrence 19-MC-41</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
<b>GRADUATE DIPLOMA IN SOFTWARE AND WEB DEVELOPMENT (LEVEL 7) (15 Credits = 0.1250 EFTS)</b>				
<b>LEVEL 6 COURSES</b>				
502.632 Full Stack Web Development  <b>Pre-requisite:</b> 502.525 Front End Web Development; 502.522 Object-Oriented Programming <b>AND</b> 564.532 Introduction to Databases	<b>Occurrence 19-MC-11</b> Tue 2:00-5:00 pm Thu 2:00-5:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Tue 2:00-5:00 pm Thu 2:00-5:00 pm	Not Offered
502.633 Software Engineering  <b>Pre-requisite:</b> 502.523 System Analysis and Design	<b>Occurrence 19-MC-11</b> Mon 8:00-11:00 am Wed 2:00-5:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Mon 8:00-11:00 am Wed 2:00-5:00 pm	Not Offered
502.634 User Experience and User Interface Design (UX/UI Design)  <b>[Please choose on occurrence only]</b>  <b>Pre-requisite:</b> 502.522 Object-Oriented Programming <b>AND</b> 502.523 System Analysis and Design	Not Offered	<b>Occurrence 19-MC-21</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm  <b>OR</b> <b>Occurrence 19-MC-22</b> Mon 4:00-7:00 pm Wed 4:00-7:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
<b>LEVEL 7 COURSES</b>				
502.715 Mobile Application Development  <i>Pre-requisite:</i> 564.532 Introduction to Databases; 502.522 Object Oriented Programming <b>AND</b> 502.634 UX/UI Design	Not Offered	<b>Occurrence 19-MC-21</b> Mon 10:00-1:00 pm Wed 10:00-1:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Mon 10:00-1:00 pm Wed 10:00-1:00 pm
502.714 Hot Topic in Software	<del><b>Occurrence 19-MC-11</b> Tue 9:00-12:00 pm Wed 1:00-4:00 pm</del>  <b>Cancelled</b>	<b>Occurrence 19-MC-21</b> Tue 2:00-5:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 2:00-5:00 pm Thu 11:00-2:00 pm
563.783 Management of ICT  <i>Pre-requisite:</i> 561.590 Business Information Systems <b>AND</b> 563.683 Change & Project Management in IT	<b>Occurrence 19-MC-11</b> Mon 2:00-5:00 pm Wed 1:00-4:00 pm	<b>Occurrence 19-MC-21</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm	<b>Occurrence 19-MC-31</b> Mon 2:00-5:00 pm Wed 1:00-4:00 pm	<b>Occurrence 19-MC-41</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
<b>GRADUATE DIPLOMA IN DATA ANALYTICS (LEVEL 7) (15 Credits = 0.1250 EFTS)</b>				
<b>LEVEL 6 COURSES</b>				
563.684 Big Data Analysis  <i>Pre-requisite:</i> 502.524 Fundamentals of Business Intelligence <b>AND</b> 564.532 Introduction to Databases	<b>Occurrence 19-MC-11</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Tue 11:00-2:00 pm Thu 11:00-2:00 pm	Not Offered
563.685 Business Statistics for Decision Modelling	<b>Occurrence 19-MC-11</b> Tue 3:00-6:00 pm Thu 3:00-6:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Tue 3:00-6:00 pm Thu 3:00-6:00 pm	Not Offered
563.686 Data Analytics and Intelligence  <i>Pre-requisite:</i> 502.524 Fundamentals of Business Intelligence	Not Offered	<b>Occurrence 19-MC-21</b> Mon 8:00-11:00 am Thu 8:00-11:00 am	Not Offered	<b>Occurrence 19-MC-41</b> Mon 8:00-11:00 am Thu 8:00-11:00 am

Course Code and Name	19-Q1 (25 February – 19 April)	19-Q2 (13 May – 5 July)	19-Q3 (29 July – 20 September)	19-Q4 (14 October – 6 December)
<b>LEVEL 7 COURSES</b>				
563.784 Advanced Data Analytics  <i>Pre-requisite:</i> 563.686 Data Analytics & Intelligence, 563.684 Big Data Analysis <b>AND</b> 563.685 Business Statistics for Decision Modelling	<b>Occurrence 19-MC-11</b> Mon 9:00-12:00 am Wed 1:00-4:00 pm	Not Offered	<b>Occurrence 19-MC-31</b> Mon 9:00-12:00 am Wed 1:00-4:00 pm	Not Offered
563.785 Hot Topic in Data Analytics	Not Offered	<b>Occurrence 19-MC-21</b> Tue 2:00-5:00 pm Thu 11:00-2:00 pm	Not Offered	<b>Occurrence 19-MC-41</b> Tue 2:00-5:00 pm Thu 11:00-2:00 pm
563.783 Management of ICT  <i>Pre-requisite:</i> 561.590 Business Information Systems <b>AND</b> 563.683 Change & Project Management in IT	<b>Occurrence 19-MC-11</b> Mon 2:00-5:00 pm Wed 1:00-4:00 pm	<b>Occurrence 19-MC-21</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm	<b>Occurrence 19-MC-31</b> Mon 2:00-5:00 pm Wed 1:00-4:00 pm	<b>Occurrence 19-MC-41</b> Mon 1:00-4:00 pm Wed 1:00-4:00 pm