



UNIVERSITI  
TEKNOLOGI  
MARA



# STUDENTS ACHIEVEMENT ANALYSIS FOR LECTURER ATTENDING SMART CLASSROOM TRAINING



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## INTRODUCTION

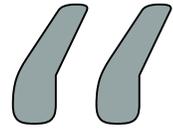
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# INTRODUCTION

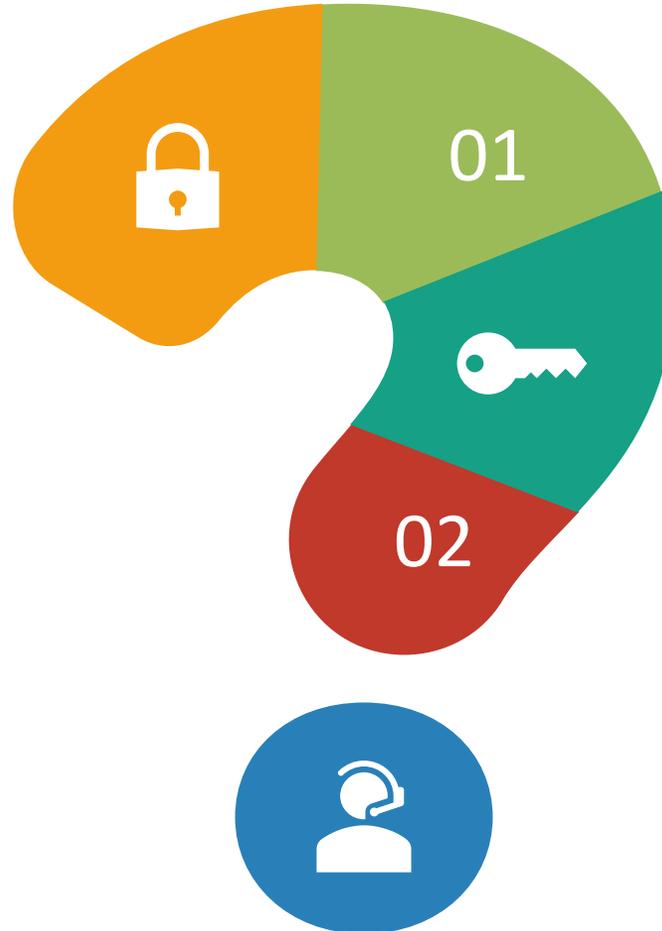
Smart Classroom is one of the priority projects of UiTM transformation program, namely Quality Lecturers of UiTM (QL-UiTM). To achieve this goal, a workshop on the use of Smart Classroom was held to train academic staff in stages to create awareness and redesign learning to be relevant to the needs of new technologies and Gen-2 learning style.

It aims to support the quality of academic development of the university towards making UiTM a renowned university through improving the quality of lecturers in effective delivery and learning methods as well as producing competent and holistic students thus increasing marketability of graduates in creating a planned educational ecosystem.



# PURPOSE OF THE ANALYSIS

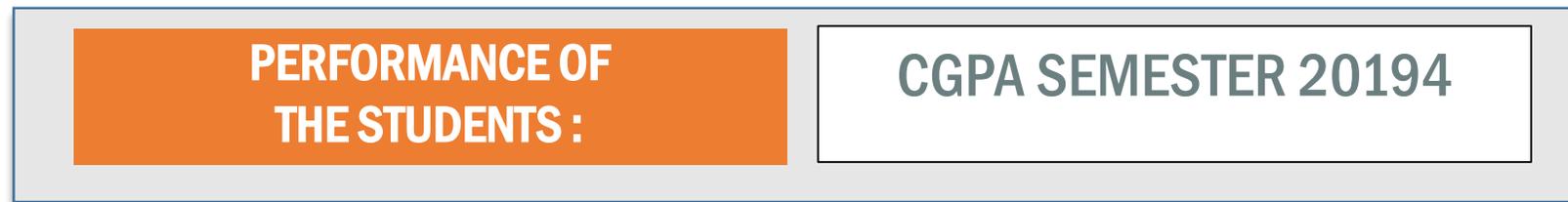
- To monitor the effectiveness of Smart Classroom training provided to the academic staff towards the Teaching & Learning delivery.
- To make a comparable analysis between the performance of students for lecturers participated & not participated in Smart Classroom training.



- To analyze the performance of students for lecturers participated in Smart Classroom training.

# ABOUT THE DATA

## Background of data in the analysis



# ABOUT THE DATA

## Lecturers participation in the analysis

Faculty	Percent Attend Training (%)	Percent Not Attend Training (%)
Academy of Language Studies	48.99	51.01
Arshad Ayub Graduate Business School	100.00	0.00
Faculty of Hotel & Tourism Management	73.92	26.08
Faculty of Pharmacy	45.85	54.15
Faculty of Civil Engineering	27.67	72.33
Faculty of Electrical Engineering	32.00	68.00
Faculty of Chemical Engineering	32.26	67.74
Faculty of Mechanical Engineering	30.08	69.92
Faculty of Communication & Media Studies	0.00	100.00
Faculty of Plantation & Agrotechnology	32.18	67.82

Faculty	Percent Attend Training (%)	Percent Not Attend Training (%)
Faculty of Information Management	43.13	56.87
Faculty of Business Management	33.84	66.16
Faculty of Accounting	25.71	74.29
Faculty of Applied Sciences	29.56	70.44
Faculty of Health Sciences	67.86	32.14
Faculty of Computer & Mathematical Sciences	26.69	73.31
Faculty of Administrative Science & Policy Studies	33.10	66.90
Faculty of Sports Science & Recreation	100.00	0.00
Faculty of Architecture, Planning & Surveying	28.73	71.27
Faculty of Art & Design	36.74	63.26

*\*Data are based on comparisons with lecturers participating in the course teaching the same course code only, not representing the entire faculty. Total course code recorded: 328*

# ABOUT THE DATA

## Students participation in the analysis

The data used for this reporting purpose is taken based on the list of lecturers who attended the course as well as lecturers who did not attend the course but taught the same course code. The collection of this data is intended to see a comparison of student achievement taking the same course code regardless of the participation of the lecturer in the Smart Classroom Training.

Apart from that, the purpose of this comparison is also to see the suitability of Smart Classroom application in the teaching & learning to the Course codes, programs and faculties respectively. The total number of student data taken is as follow.

Lecturers Participation in the Smart Classroom Training	Number of Students	Percentage of Students (%)
Lecturer Participated	18,732	68.05
Lecturer Not Participated	39,895	31.95
Total	58,627	100.00

# ABOUT THE DATA

## Students participation in the analysis by faculty

Faculty	Percentage of Students (%)
Academy of Language Studies	0.51
Arshad Ayub Graduate Business School	0.08
Faculty of Hotel & Tourism Management	2.49
Faculty of Pharmacy	1.25
Faculty of Civil Engineering	0.43
Faculty of Electrical Engineering	0.81
Faculty of Chemical Engineering	0.53
Faculty of Mechanical Engineering	1.05
Faculty of Communication & Media Studies	0.10
Faculty of Plantation & Agrotechnology	1.28

Faculty	Percentage of Students (%)
Faculty of Information Management	3.69
Faculty of Business Management	25.82
Faculty of Accounting	18.70
Faculty of Applied Sciences	12.20
Faculty of Applied Sciences	0.24
Faculty of Computer & Mathematical Sciences	13.59
Faculty of Administrative Science & Policy Studies	4.11
Faculty of Sports Science & Recreation	0.09
Faculty of Architecture, Planning & Surveying	10.47
Faculty of Art & Design	2.57

## Students participation in the analysis by branch

Branch	Percentage of Students (%)
UiTM Johor	25.70
UiTM Kedah	14.83
UiTM Melaka	6.53
UiTM Perak	35.28
UiTM Pulau Pinang	5.34
UiTM Sabah	7.60
UiTM Selangor	4.72
<b>Total</b>	<b>100.00</b>

# RESULTS OF ANALYSIS



# ANALYSIS OF STUDENTS PERFORMANCE

## Analysis of achievement by faculty

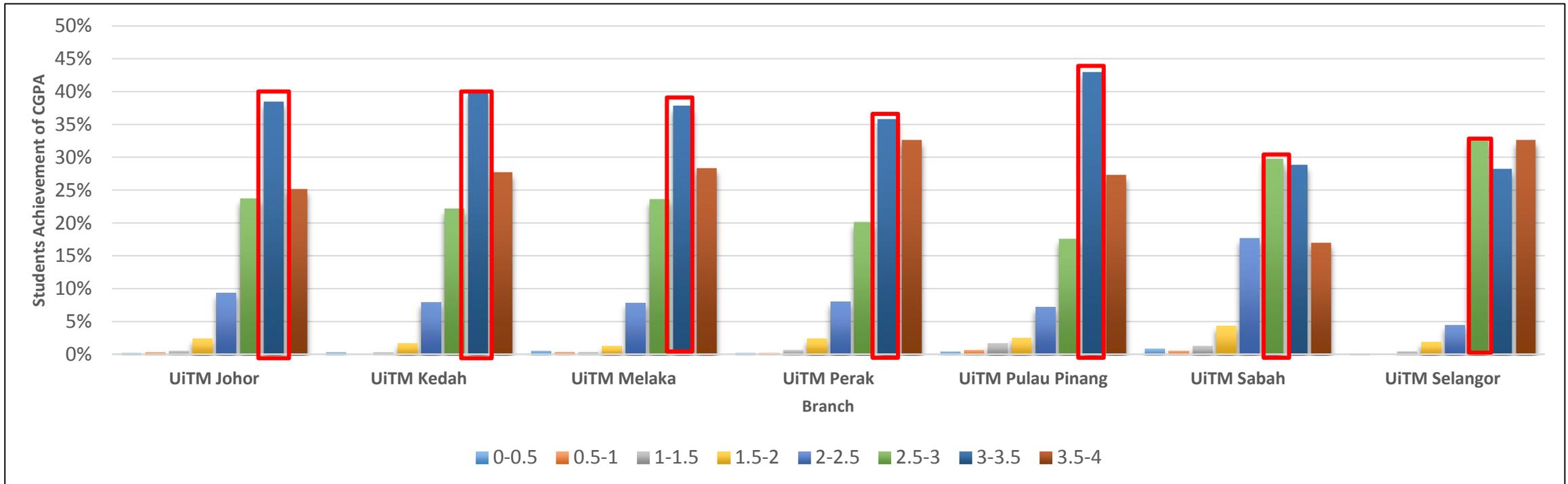
Faculty	Percentage of students achieved CGPA(%)							
	0-0.5	0.5-1	1-1.5	1.5-2	2-2.5	2.5-3	3-3.5	3.5-4
Academy of Language Studies	0.00	0.00	0.00	0.00	0.68	8.22	<b>47.26</b>	43.84
Arshad Ayub Graduate Business School	2.22	0.00	0.00	0.00	0.00	0.00	40.00	<b>57.78</b>
Faculty of Hotel & Tourism Management	0.46	0.09	0.37	2.04	11.67	20.56	<b>41.48</b>	23.33
Faculty of Pharmacy	0.00	0.00	0.00	2.97	4.15	21.36	<b>36.20</b>	35.31
Faculty of Civil Engineering	1.43	0.00	1.43	2.86	27.14	<b>34.29</b>	28.57	4.29
Faculty of Electrical Engineering	0.66	1.32	1.97	1.32	14.47	17.76	<b>34.87</b>	27.63
Faculty of Chemical Engineering	0.00	0.00	1.00	1.00	5.00	10.00	34.00	<b>49.00</b>
Faculty of Mechanical Engineering	1.08	3.78	9.19	10.81	20.54	<b>27.57</b>	21.62	5.41
Fakulti Peladangan	2.89	0.41	0.41	2.89	24.79	<b>33.47</b>	21.49	13.64
Fakulti Pengurusan Maklumat	0.32	0.00	0.11	1.18	6.97	30.69	<b>44.42</b>	16.31
Fakulti Pengurusan Perniagaan	0.23	0.20	0.45	1.80	7.61	23.82	<b>41.27</b>	24.62
Fakulti Perakaunan	0.25	0.39	0.85	2.77	7.56	18.49	27.57	<b>42.12</b>
Fakulti Sains Gunaan	0.05	0.05	0.52	2.79	6.62	<b>31.13</b>	30.32	28.52
Fakulti Sains Kesihatan	0.00	0.00	0.00	0.00	0.00	10.53	44.21	<b>45.26</b>
Fakulti Sains Komputer & Matematik	0.28	0.28	0.94	3.29	13.40	22.43	<b>32.39</b>	26.99
Fakulti Sains Pentadbiran & Pengajian Polisi	0.50	0.63	1.00	4.26	17.92	22.93	<b>35.34</b>	17.42
Fakulti Sains Sukan & Rekreasi	3.85	0.00	3.85	0.00	9.62	<b>80.77</b>	1.92	0.00
Fakulti Seni Bina & Perancangan Ukur	0.34	0.00	0.34	1.08	4.93	20.42	<b>45.55</b>	27.34
Fakulti Seni Lukis & Seni Reka	0.18	0.72	0.18	1.44	8.30	20.58	<b>40.43</b>	28.16

On average, the highest percentage of achievement obtained CGPA more that 2.50 by each faculty.

**■** = Highest Percentage

# ANALYSIS OF STUDENTS PERFORMANCE

## Analysis of achievement by branch



□ = Mode

# ANALYSIS OF STUDENTS PERFORMANCE

## Comparable analysis of achievement by faculty

Faculty	Average Students CGPA	
	Lecturer Not Participated	Lecturer Participated
Academy of Language Studies	3.38	3.32
Faculty of Hotel & Tourism Management	3.09	2.97
Faculty of Pharmacy	3.21	3.43
Faculty of Civil Engineering	2.66	3.14
Faculty of Electrical Engineering	3.03	3.01
Faculty of Chemical Engineering	3.37	3.41
Faculty of Mechanical Engineering	2.45	2.63
Faculty of Plantation & Agrotechnology	2.72	2.88
Faculty of Information Management	3.05	3.15
Faculty of Business Management	3.12	3.08
Faculty of Accountancy	3.23	3.33
Faculty of Applied Science	3.09	2.99
Faculty of Health Science	3.43	3.51
Faculty of Computer & Mathematical Sciences	3.05	3.08
Faculty of Administrative Science & Policy Studies	2.91	2.94
Faculty of Architecture, Planning & Surveying	3.19	3.18
Faculty of Art & Design	3.14	3.09

Average GPA for participated lecturer: 3.13

Average GPA for non participated lecturer: 3.11

 = Highest Average

# ANALYSIS OF STUDENTS PERFORMANCE

## Analysis of achievement by program code

Faculty / Program Code	Percentage of students GPA achieved (%)							
	0-0.5	0.5-1	1-1.5	1.5-2	2-2.5	2.5-3	3-3.5	3.5-4
<b>ACADEMY OF LANGUAGE STUDIES</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.68</b>	<b>8.22</b>	<b>47.26</b>	<b>43.84</b>
LG120	0.00	0.00	0.00	0.00	0.68	8.22	47.26	43.84
<b>ARSHAD AYUB GRADUATE BUSINESS SCHOOL</b>	<b>2.22</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>40.00</b>	<b>57.78</b>
AA701	2.22	0.00	0.00	0.00	0.00%	0.00	40.00	57.78
<b>FACULTY OF HOTEL &amp; TOURISM MANAGEMENT</b>	<b>0.46</b>	<b>0.09</b>	<b>0.37</b>	<b>2.04</b>	<b>11.67</b>	<b>20.56</b>	<b>41.48</b>	<b>23.33</b>
HM110	0.00	0.00	0.00	0.00	1.37	12.33	68.49	17.81
HM111	0.00	0.00	0.00	1.29	7.74	20.00	50.97	20.00
HM112	0.00	0.00	0.00	0.88	4.42	19.47	50.44	24.78
HM115	0.68	0.68	1.36	0.68	1.36	6.80	64.63	23.81
HM116	0.00	0.00	0.00	0.00	0.00	5.63	60.56	33.80
HM240	0.00	0.00	0.00	0.00	0.00	50.00	37.50	12.50
HM241	0.65	0.00	0.43	3.88	22.84	29.31	21.34	21.55
HM245	2.04	0.00	0.00	0.00	0.00	12.24	44.90	40.82

# ANALYSIS OF STUDENTS PERFORMANCE

## Analysis of achievement by program code

Faculty / Program Code	Percentage of students GPA achieved (%)							
	0-0.5	0.5-1	1-1.5	1.5-2	2-2.5	2.5-3	3-3.5	3.5-4
<b>FACULTY OF PHARMACY</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2.97</b>	<b>4.15</b>	<b>21.36</b>	<b>36.20</b>	<b>35.31</b>
PH110	0.00	0.00	0.00	2.97	4.15	21.36	36.20	35.31
<b>FACULTY OF CIVIL ENGINEERING</b>	<b>1.43</b>	<b>0.00</b>	<b>1.43</b>	<b>2.86</b>	<b>27.14</b>	<b>34.29</b>	<b>28.57</b>	<b>4.29</b>
EC110	1.82	0.00	1.82	3.64	34.55	40.00	18.18	0.00
EC221	0.00	0.00	0.00	0.00	0.00	13.33	66.67	20.00
<b>FACULTY OF ELECTRICAL ENGINEERING</b>	<b>0.66</b>	<b>1.32</b>	<b>1.97</b>	<b>1.32</b>	<b>14.47</b>	<b>17.76</b>	<b>34.87</b>	<b>27.63</b>
EE111	1.35	2.70	4.05	2.70	20.27	18.92	27.03	22.97
EE112	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
EE200	0.00	0.00	0.00	0.00	2.74	17.81	45.21	34.25
<b>FACULTY OF CHEMICAL ENGINEERING</b>	<b>0.00</b>	<b>0.00</b>	<b>1.00</b>	<b>1.00</b>	<b>5.00</b>	<b>10.00</b>	<b>34.00</b>	<b>49.00</b>
EH224	0.00	0.00	1.00	1.00	5.00	10.00	34.00	49.00
<b>FACULTY OF MECHANICAL ENGINEERING</b>	<b>1.08</b>	<b>3.78</b>	<b>9.19</b>	<b>10.81</b>	<b>20.54</b>	<b>27.57</b>	<b>21.62</b>	<b>5.41</b>
EM110	1.08	3.78	9.19	10.81	20.54	27.57	21.62	5.41
<b>FACULTY OF PLANTATION &amp; AGROTECHNOLOGY</b>	<b>2.89</b>	<b>0.41</b>	<b>0.41</b>	<b>2.89</b>	<b>24.79</b>	<b>33.47</b>	<b>21.49</b>	<b>13.64</b>
AT110	2.89	0.41	0.41	2.89	24.79	33.47	21.49	13.64

# ANALYSIS OF STUDENTS PERFORMANCE

## Analysis of achievement by program code

Faculty / Program Code	Percentage of students GPA achieved (%)							
	0-0.5	0.5-1	1-1.5	1.5-2	2-2.5	2.5-3	3-3.5	3.5-4
<b>FACULTY OF INFORMATION MANAGEMENT</b>	<b>0.32</b>	<b>0.00</b>	<b>0.11</b>	<b>1.18</b>	<b>6.97</b>	<b>30.69</b>	<b>44.42</b>	<b>16.31</b>
IM110	0.15	0.00	0.00	1.48	6.66	32.69	42.60	16.42
IM120	1.14	0.00	0.57	0.57	5.14	16.57	56.00	20.00
IM246	0.00	0.00	0.00	0.00	13.58	44.44	34.57	7.41
<b>FACULTY OF BUSINESS MANAGEMENT</b>	<b>0.23</b>	<b>0.20</b>	<b>0.45</b>	<b>1.80</b>	<b>7.61</b>	<b>23.82</b>	<b>41.27</b>	<b>24.62</b>
BA002	0.00	0.00	0.00	0.00	27.78	22.22	38.89	11.11
BA003	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
BA111	0.16	0.65	0.81	3.26	10.42	21.34	37.30	26.06
BA114	0.00	0.22	1.79	4.25	12.53	29.75	40.27	11.19
BA115	2.63	0.00	2.63	3.95	6.58	22.37	30.26	31.58
BA117	0.00	0.00	0.00	4.17	12.50	62.50	20.83	0.00
BA118	0.38	0.00	0.00	0.19	1.69	10.53	38.72	48.50
BA119	0.00	0.12	0.50	2.10	11.63	25.00	37.38	23.27
BA232	1.40	0.00	0.00	2.10	10.49	30.07	38.46	17.48
BA240	0.00	0.00	0.35	0.35	4.93	38.38	49.30	6.69

# ANALYSIS OF STUDENTS PERFORMANCE

## Analysis of achievement by program code

Faculty / Program Code	Percentage of students GPA achieved (%)							
	0-0.5	0.5-1	1-1.5	1.5-2	2-2.5	2.5-3	3-3.5	3.5-4
<b>FACULTY OF BUSINESS MANAGEMENT</b>	<b>0.23</b>	<b>0.20</b>	<b>0.45</b>	<b>1.80</b>	<b>7.61</b>	<b>23.82</b>	<b>41.27</b>	<b>24.62</b>
BM249	0.00	0.00	0.00	0.00	4.12	21.65	53.61	20.62
BM250	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
BM251	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
<b>FACULTY OF ACCOUNTANCY</b>	<b>0.25</b>	<b>0.39</b>	<b>0.85</b>	<b>2.77</b>	<b>7.56</b>	<b>18.49</b>	<b>27.57</b>	<b>42.12</b>
AC110	0.31	0.48	1.05	3.09	7.45	17.65	25.14	44.84
AC120	0.00	0.00	0.00	2.38	6.19	16.19	33.33	41.90
AC220	0.00	0.00	0.00	0.64	9.27	26.20	41.53	22.36
<b>FACULTY OF APPLIED SCIENCES</b>	<b>0.05</b>	<b>0.05</b>	<b>0.52</b>	<b>2.79</b>	<b>6.62</b>	<b>31.13</b>	<b>30.32</b>	<b>28.52</b>
AS120	0.18	0.18	1.09	5.44	13.61	33.21	31.58	14.70
AS201	0.00	0.00	0.00	0.00	0.00	1.85	40.74	57.41
AS202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
AS203	0.00	0.00	0.00	1.82	5.45	24.55	38.18	30.00
AS222	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
AS229	0.00	0.00	0.00	0.00	0.00	67.92	32.08	0.00
AS230	0.00	0.00	0.00	0.00	4.65	18.60	46.51	30.23

# ANALYSIS OF STUDENTS PERFORMANCE

## Analysis of achievement by program code

Faculty / Program Code	Percentage of students GPA achieved (%)							
	0-0.5	0.5-1	1-1.5	1.5-2	2-2.5	2.5-3	3-3.5	3.5-4
<b>FACULTY OF APPLIED SCIENCES</b>	<b>0.05</b>	<b>0.05</b>	<b>0.52</b>	<b>2.79</b>	<b>6.62</b>	<b>31.13</b>	<b>30.32</b>	<b>28.52</b>
AS232	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
AS240	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
AS244	0.00	0.00	0.00	0.35	0.00	0.71	14.89	84.04
AS245	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
AS246	0.00	0.00	0.00	0.63	0.63	43.13	40.00	15.63
AS248	0.00	0.00	0.00	0.00	17.02	12.77	38.30	31.91
AS250	0.00	0.00	0.00	0.00	1.11	18.33	51.11	29.44
AS251	0.00	0.00	1.52	7.32	13.11	21.34	31.10	25.61
AS253	0.00	0.00	0.00	0.82	2.46	96.72	0.00	0.00
AS257	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
AS728	0.00	0.00	0.00	0.00	0.00	33.33	66.67	0.00
<b>FACULTY OF APPLIED SCIENCES</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>10.53</b>	<b>44.21</b>	<b>45.26</b>
HS113	0.00	0.00	0.00	0.00	0.00	16.00	46.00	38.00
HS114	0.00	0.00	0.00	0.00	0.0	4.44	42.22	53.33
<b>FACULTY OF COMPUTER &amp; MATHEMATICAL SCIENCES</b>	<b>0.28</b>	<b>0.28</b>	<b>0.94</b>	<b>3.29</b>	<b>13.40</b>	<b>22.43</b>	<b>32.39</b>	<b>26.99</b>
CS110	0.27	0.18	0.63	2.88	13.69	27.84	33.24	21.26

# ANALYSIS OF STUDENTS PERFORMANCE

## Analysis of achievement by program code

Faculty / Program Code	Percentage of students GPA achieved (%)							
	0-0.5	0.5-1	1-1.5	1.5-2	2-2.5	2.5-3	3-3.5	3.5-4
<b>FACULTY OF COMPUTER &amp; MATHEMATICAL SCIENCES</b>	<b>0.28</b>	<b>0.28</b>	<b>0.94</b>	<b>3.29</b>	<b>13.40</b>	<b>22.43</b>	<b>32.39</b>	<b>26.99</b>
CS111	0.00	2.74	0.00	2.74	23.29	20.55	32.88	17.81
CS112	0.00	0.75	2.26	3.01	8.27	21.05	30.83	33.83
CS143	0.46	0.00	1.37	2.13	10.52	14.94	32.77	37.80
CS230	0.00	0.65	0.65	11.61	23.23	17.42	25.81	20.65
<b>FACULTY OF ADMINISTRATIVE SCIENCE &amp; POLICY STUDIES</b>	<b>0.50</b>	<b>0.63</b>	<b>1.00</b>	<b>4.26</b>	<b>17.92</b>	<b>22.93</b>	<b>35.34</b>	<b>17.42</b>
AM110	0.70	0.70	1.40	6.29	26.34	26.34	22.14	16.08
AM228	0.27	0.54	0.54	1.90	8.13	18.97	50.68	18.97
<b>FACULTY OF SPORT SCIENCES &amp; RECREATION</b>	<b>3.85</b>	<b>0.00</b>	<b>3.85</b>	<b>0.00</b>	<b>9.62</b>	<b>80.77</b>	<b>1.92</b>	<b>0.00</b>
SR113	14.29	0.00	14.29	0.00	35.71	28.57	7.14	0.00
SR241	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
<b>FACULTY OF ARCHITECTURE, PLANNING &amp; SURVEYING</b>	<b>0.34</b>	<b>0.00</b>	<b>0.34</b>	<b>1.08</b>	<b>4.93</b>	<b>20.42</b>	<b>45.55</b>	<b>27.34</b>
AP111	1.82	0.00	0.00	0.00	3.64	32.73	45.45	16.36
AP114	0.52	0.00	0.00	0.52	5.33	23.37	41.75	28.52
AP117	0.00	0.00	0.42	1.26	2.94	14.71	50.42	30.25
AP148	0.27	0.00	0.67	1.73	6.27	21.47	46.93	22.67
AP224	0.00	0.00	0.00	0.00	0.00	10.64	46.81	42.55

# ANALYSIS OF STUDENTS PERFORMANCE

## Analysis of achievement by course code

Faculty / Program Code	Percentage of students GPA achieved (%)							
	0-0.5	0.5-1	1-1.5	1.5-2	2-2.5	2.5-3	3-3.5	3.5-4
<b>FACULTY OF ARCHITECTURE, PLANNING &amp; SURVEYING</b>	<b>0.34</b>	<b>0.00</b>	<b>0.34</b>	<b>1.08</b>	<b>4.93</b>	<b>20.42</b>	<b>45.55</b>	<b>27.34</b>
AP225	0.00	0.00	0.00	0.00	0.00	0.00	61.29	38.71
AP763	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
<b>FACULTY OF ART &amp; DESIGN</b>	<b>0.18</b>	<b>0.72</b>	<b>0.18</b>	<b>1.44</b>	<b>8.30</b>	<b>20.58</b>	<b>40.43</b>	<b>28.16</b>
AD111	0.00	1.18	0.00	1.57	3.94	16.93	40.55	35.83
AD114	2.38	0.00	2.38	2.38	19.05	45.24	23.81	4.76
AD116	0.00	0.00	0.00	4.44	35.56	31.11	26.67	2.22
AD117	0.00	0.70	0.00	0.70	3.52	13.38	48.59	33.10
AD118	0.00	0.00	0.00	0.00	13.73	31.37	37.25	17.65
AD241	0.00	0.00	0.00	0.00	0.00	15.00	55.00	30.00

# THANK YOU

PREPARED BY:

CENTRE FOR INNOVATIVE DELIVERY &  
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AFFAIRS DIVISION