

## "We Strive to Guarantee Quality and Excellence"

Palau Community College is an accessible public educational institution helping to meet the technical, academic, cultural, social, and economic needs of students and communities by promoting learning opportunities and developing personal excellence.

## T1 - Instructional Programs (Academic Degree \& Certificate Programs)

## Three Year Program Review

## Degree / Certificate Program

## Science, Technology, Engineering, \& Mathematics (STEM) Disciplines

## Period of Three Year Review

S.Y. 2015-2016; 2016-2017; 2017-2018

Program Review Completed By:

| Name | Title | Signature | Date |
| :---: | :---: | :---: | :---: |
| Jesna Nissam | Chairperson | Jes. | $11 / 14 / 2018$ |

Program Review Certified By:

| Name | Title | Signature | Date |
| :---: | :---: | :---: | :---: |
| Robert Ramarui | Dean, Academic <br> Affairs | $\operatorname{Pan} \sqrt{\text { Pamamie }}$ | $11 / 14 / 18$ |

Program Review Received By: (Institutional Research \& Evaluation Office)

| Name | Title | Signature | Date |
| :---: | :---: | :---: | :---: |
| ligaya Sara | Institutional Researcher | aly | $11 / 14 / 2018$ |

## I. Academic Degree Program Purpose (Program Description) and Relationship to the College Mission

1. State the purpose of this academic degree program below.

There is a shortage of Micronesians in these fields and the governments have had to reply on foreign workers to fill key positions in the STEM areas. It is hoped that once students complete the STEM program, they will continue on to a four year institution and upon graduation, return to their respective home nations to work.

The STEM Program will provide students a core education in science, engineering and technology to prepare them to enter into a four year degree program in these field. The program was also developed to assist the school system with qualified math and science teachers. With qualified graduates to move on and earn their bachelor degrees and possibly higher, there will then be qualified candidates for both the elementary and high schools which are in need of locally qualified teachers in the STEM fields.
2. How is the academic degree program supporting the overall mission of the College?

Through this program, students acquire lifelong technical and academic knowledge, skills and attitudes needed to continue their education careers in STEM or to work in STEM related fields. Students learn to develop personal excellence and develop socially and culturally through learning opportunities in courses covered in the STEM program. Their economic needs should be met upon graduating and acquiring jobs in the STEM field.
3. Provide a brief history of this academic degree program below. Include the updates of major changes and accomplishments since the last review.

Development of the STEM program began in 2008. Following the official process for new programs, in 2010 approval was granted by the Committee on Programs and Curricula, the President of the College and the PCC Board of Trustees. A substantive change proposal was submitted to WASC ACCJC in 2012 and approval was granted in May 2012. The program was officially offered in fall 2012. Enrollment is low but starting to increase and there have already been four graduates since it was first offered. Since the last review, there have been no changes to the program.

## II. Program Data

## Degree Program Students - Number of Students Enrolled in this Degree Program

Figure 1. Number of Students Enrolled in Degree Program


Provide summary of Figure 1 including its trends analysis.
At this time enrollment into the STEM Program remains fairly low. For this cycle of review, Spring 2016 and Spring 2017 experienced the maximum number of students of 9 enrolled under this program. Department members could help recruit by counseling, guiding and encouraging students to take up these courses. Current students in math courses who show interest and aptitude in the STEM areas could be encouraged to enroll in this program.

Table 1a. Course Completion of Program Courses (Fall)

| FA 2015 |  |  |  |  | FA 2016 |  |  |  |  | FA 2017 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Course | Passed | Failed | Withdraw | Enrolled | Course | Passed | Failed | Withdraw | Enrolled | Course | Passed | Failed | Withdraw | Enrolled |
| IT110 | 4 | 0 |  | 4 | IT 105 | 1 | 0 |  | 1 | IT110 | 1 | 1 |  | 2 |
| MA111 | 2 | 0 |  | 2 | IT110 | 1 | 0 |  | 1 | MA111 | 0 | 1 |  | 1 |
| MA112 | 1 | 0 |  | 1 | MA111 | 2 | 0 |  | 2 | MA112 | 2 | 0 |  | 2 |
|  |  |  |  |  | MA112 | 2 | 0 |  | 2 | SC161 | 2 | 0 |  | 2 |
|  |  |  |  |  | SC161 | 4 | 0 |  | 4 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Table 1b. Course Completion of Program Courses (Spring)

| SP 2016 |  |  |  |  | SP 2017 |  |  |  | SP 2018 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Course | Passed | Failed | Withdraw | Enrolled | Course | Passed | Failed | Withdraw | Enrolled | Course | Passed | Failed | Withdraw | Enrolled |
| IT105 | 2 | 0 |  | 2 | IT125 | 1 | 0 |  | 1 | IT105 | 1 | 0 |  | 1 |
| IT125 | 2 | 0 |  | 2 | MA111 | 1 | 0 |  | 1 | T125 | 1 | 0 |  | 1 |
| MA111 | 0 | 1 |  | 1 | MA121 | 2 | 0 |  | 2 | MA111 | 1 | 0 |  | 1 |
| MA121 | 2 | 0 |  | 2 | MA221 | 2 | 0 |  | 2 | MA221 | 2 | 0 |  | 2 |
| MA221 | 1 | 0 |  | 1 | SC160 | 4 | 0 |  | 4 | SC160 | 4 | 0 |  | 4 |
| SC160 | 4 | 0 |  | 4 | SC205 | 4 | 0 |  | 4 | SC205 | 2 | 0 |  | 2 |
| SC161 | 2 | 0 |  | 2 |  |  |  |  |  |  |  |  |  |  |
| SC205 | 2 | 0 |  | 2 |  |  |  |  |  |  |  |  |  |  |

Table 1c. Course Completion of Program Courses (Summer)

| SU 2016 |  |  |  |  | SU 2017 |  |  |  |  | SU 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Course | Passed | Failed | Withdraw | Enrolled | Course | Passed | Failed | Withdraw | Enrolled | Course | Passed | Failed | Withdraw | Enrolled |
| SC206 | 2 | 0 |  | 2 | SC206 | 4 | 0 |  | 4 | SC206 | 3 | 0 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Provide summary of Tables $1 \mathrm{a}, 1 \mathrm{~b}$ \& 1c including its trends analysis.
According to the records shown above 2 students failed overall in MA111 and 1 student failed in IT110. Overall though, students are able to move through the STEM courses in a timely manner.

Figure 2. Number of Graduates


Provide summary of Figure 2 including its trends analysis.
Of 2 enrolled in Summer 2016, 1 graduated. Of 2 enrolled in Summer, 2017, 2 graduated. Of 3 enrolled in Summer 2018, 1 graduated. The student who graduated in summer 2016 enrolled in fall 2012 which shows the student took almost 4 years to graduate. This student had to repeat some mathematics, science and technology courses. The two graduates who graduated in summer 2017 both started in fall 2014, and the student who graduated in summer 2018 enrolled into the program in fall 2015.

The students should be able to graduate in a timely manner if courses do not need to be repeated provided they enroll in the summer sessions also.

Figure 3. Faculty Head Count


Provide summary of Figure 3 including its trends analysis.
Only one of the STEM courses (SC 206) was taught during summer sessions of 2016, 2017 and 2018, so only one instructor was needed. All the faculty come from different programs and departments to support the STEM program and so are considered part time faculty for the STEM program. During the fall and spring semesters, STEM students are enrolled into math, science and technology courses along with students from other majors. Faculty for those departments or programs are usually the instructors of their courses. Adjunct instructors may be hired when department or the other program faculty are fully loaded.

## III. Student Learning and Curriculum

|  | How many program <br> courses are there? <br> (refer to catalog or <br> recent approval by <br> CPC) | \% of courses with <br> Identified CLOs | List all revised program courses <br> outlines or proposed new <br> courses that received CPC <br> approval within this review <br> cycle | $\%$ of PLOs <br> aligned <br> with ILOs |
| :--- | :--- | :---: | :--- | :---: |
| FALL 2015 | 3 | $100 \%$ |  | $100 \%$ |
| SPRING 2016 | 8 | $100 \%$ |  | $100 \%$ |
| SUMMER 2016 | 1 | $100 \%$ |  | $100 \%$ |
| FALL 2016 | 5 | $100 \%$ | SC160 \& SC 205 | $100 \%$ |
| SPRING 2017 | 6 | $100 \%$ | SC $160 \&$ SC 161 | $100 \%$ |
| SUMMER 2017 | 1 | $100 \%$ |  | $100 \%$ |
| FALL 2017 | 4 | $100 \%$ |  | $100 \%$ |
| SPRING 2018 | 6 | $100 \%$ |  | $100 \%$ |
| SUMMER 2018 | 1 | $100 \%$ |  | $100 \%$ |

Provide Summary of Student Learning and Curriculum in the box below. Summary should include reasons for course revisions and course proposals. If any course and/or the degree or the certificate program went through the validity process, include the information here.

Three of the courses were reviewed and revised.
SC160 and SC161 was last revised in the spring 2017 because the text book was outdated and no longer in print. The course descriptions, prerequisites and CLOs for SC160 and SC161 were also revised in spring 2016. The focus of the review was for the Environmental and Marine Science (ES) program and not STEM.

SC205 was revised in fall 2016 because the prerequisite was set too high and after conferring with both science and math faculty, it was agreed that the prerequisite should be change. The high prerequisite made it impossible for students to finish the program in less than three years. Now students are able to complete the program in two years although courses need to be taken during the summer also. This was the only change to the course.

## IV. Course Assessment Data

Year 1: School Year
S.Y. 2015-2016

| Semester Assessed | Course <br> Assessed | CLO-PLO-ILO Mapping | Results of Assessment |
| :---: | :---: | :---: | :---: |
| Fall 2015 | IT110 | CLO1- PLO1- ILO1/ ILO3 | $75.00 \%$ of the students assessed reached proficiency level. |
|  |  | CLO2- PLO1- ILO1/ ILO3 | $75.00 \%$ of the students assessed reached proficiency level. |
|  |  | CLO3- PLO1- ILO1/ ILO3 | $75.00 \%$ of the students assessed reached proficiency level. |
|  |  | CLO4- PLO1- ILO1/ ILO3 | $75.00 \%$ of the students assessed reached proficiency level. |
| Fall 2015 | MA111 | $\begin{aligned} & \text { CLO1- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of students achieved the expected performance with proficiency level 3 equivalents to Competent. |
|  |  | $\begin{aligned} & \text { CLO2- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of students achieved the expected performance with proficiency level 3 equivalents to Competent. |
|  |  | $\begin{aligned} & \text { CLO3- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of students achieved the expected performance with proficiency level 3 equivalents to Competent. |
|  |  | $\begin{aligned} & \text { CLO4- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of students achieved the expected performance with proficiency level 3 equivalents to Competent. |
|  |  | $\begin{aligned} & \text { CLO5- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of students achieved the expected performance with proficiency level 3 equivalents to Competent. |
| Fall 2015 | MA112 | $\begin{aligned} & \text { CLO1- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO2- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO-3 PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \\ & \hline \end{aligned}$ | $100 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO-4 PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students performed at the proficiency level. |
|  |  | CLO-5 PLO1/PLO3- ILO1/ ILO3 | This CLO was not assessed by the instructor. |


| Semester <br> s <br> Assessed | Course <br> Assessed | CLO-PLO-ILO Mapping | Results of Assessments |
| :--- | :--- | :--- | :--- |
| Spring <br> 2016 | IT105 | CLO1- PLO2- ILO1/ ILO3 | $95 \%$ of the students assessed performed at <br> the proficiency level. |
|  |  | CLO2- PLO2- ILO1/ ILO3 | $30 \%$ of the students assessed performed at <br> the proficiency level. |
|  |  | CLO3- PLO2/PLO5- ILO1/ ILO3 | $92.5 \%$ of the students assessed performed <br> at the proficiency level. |
|  |  | CLO4- PLO2/PLO5- ILO1/ ILO3 | $70 \%$ of the students assessed performed at <br> the proficiency level. |
|  |  | CLO5- PLO2- ILO1/ ILO3 | $95 \%$ of the students assessed performed <br> at the proficiency level |
| Spring | IT125 | CLO1- PLO1- ILO1/ ILO3 | $89 \%$ of the students assessed performed <br> at the proficiency level. |
|  |  | CLO4- PLO1- ILO1/ ILO3 | $89 \%$ of the students assessed performed <br> at the proficiency level. |
|  |  | CLO5- PLO1- ILO1/ ILO3 | $89 \%$ of the students assessed performed <br> at the proficiency level. |
|  |  | CLO7- PLO1/PLO3- ILO1/ ILO3 | $89 \%$ of the students assessed performed <br> at the proficiency level. |
|  |  | CLO2- PLO1/PLO3- ILO1/ ILO3 | $89 \%$ of the students assessed performed <br> at the proficiency level. |
| Spring <br> 2016 | MA111 | CLO1- PLO1/PLO3- ILO1/ ILO3 | Mid Term papers were given back to <br> students in teacher error. Hence it was <br> not assessed this semester |
|  |  | Mid Term papers were given back to <br> students in teacher error. Hence it was <br> not assessed this semester |  |
|  |  | CLO3- PLO1/PLO3- ILO1/ ILO3 | Mid Term papers were given back to <br> students in teacher error. Hence it was <br> not assessed this semester |
| Croficiency level. |  |  |  |


| $\begin{aligned} & \text { Spring } \\ & 2016 \\ & \hline \end{aligned}$ | MA221 | CLO1- PLO1/PLO3- ILO1/ ILO3 | $100 \%$ of the students performed at the proficiency level. |
| :---: | :---: | :---: | :---: |
|  |  | CLO2- PLO1/PLO3- ILO1/ ILO3 | $100 \%$ of the students performed at the proficiency level. |
|  |  | CLO3- PLO1/PLO3- ILO1/ ILO3 | $100 \%$ of the students performed at the proficiency level. |
|  |  | CLO4- PLO1/PLO3- ILO1/ ILO3 | $0 \%$ of the students performed at the proficiency level |
|  |  | CLO5- PLO1/PLO3- ILO1/ ILO3 | No data collected (instructor did not cover these topics) |
|  |  | CLO6- PLO1/PLO3- ILO1/ ILO3 | No data collected (instructor did not cover these topics) |
| $\begin{aligned} & \hline \text { Spring } \\ & 2016 \end{aligned}$ | SC160 | $\begin{aligned} & \text { CLO1- PLO1,PLO2,PLO3- ILO1,ILO2, } \\ & \text { ILO3 } \end{aligned}$ | CLO1-33\% of the students assessed performed at the proficiency level on the Lab: Measurements and Density. <br> CLO1-100\% of the students assessed performed at the proficiency level on the Midterm. |
|  |  | $\begin{aligned} & \text { CLO2- PLO1,PLO2,PLO3- ILO1,ILO2, } \\ & \text { ILO3 } \end{aligned}$ | CLO2-33\% of the students assessed performed at the proficiency level on Lab: Properties and Changes of Matter. |
|  |  | $\begin{aligned} & \text { CLO3- PLO1,PLO2,PLO3- ILO1,ILO2, } \\ & \text { ILO3 } \end{aligned}$ | CLO3-100\% of the students assessed performed at the proficiency level on the Midterm. |
|  |  |  | CLO4-100\% of the students assessed performed at the proficiency level on the Midterm. <br> CLO4-66\% of the students assessed performed at the proficiency level on Test 2. <br> CLO5-100\% of the students assessed performed at the proficiency level on the Final Exam. |
|  |  |  | CLO6-33\% of the students assessed performed at the proficiency level on the Lab: Properties and Changes of Matter. |
|  |  |  | CLO7-66\% of the students assessed performed at the proficiency level on the Lab: Properties and Changes of Matter. |
|  |  |  | CLO8 - 100\% of the students assessed performed at the proficiency level on the Final Exam. |
|  |  |  | CLO9- $33 \%$ of the students assessed performed at the proficiency level on the Lab: Properties and Changes of Matter. |


|  |  |  | CLO10 $-66 \%$ of the students assessed <br> performed at the proficiency level on the <br> Lab: Properties and Changes of Matter. |
| :--- | :--- | :--- | :--- |
|  |  |  | CLO11-100\% of the students assessed <br> performed at the proficiency level on the <br> Final Exam. |

Year 2: School Year
S.Y. 2016-2017

| Semeste r Assesse d | Course Assessed | CLO-PLO-ILO Mapping | Results of Assessments |
| :---: | :---: | :---: | :---: |
| $\begin{array}{r} \text { Fall } \\ 2016 \\ \hline \end{array}$ | IT105 | CLO1- PLO2- ILO1/ ILO3 | $83 \%$ of the students assessed performed at the proficiency level. |
|  |  | CLO2- PLO2- ILO1/ ILO3 | $70 \%$ of the students assessed performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO3- PLO2/PLO5- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO4- PLO2/PLO5- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level. |
|  |  | CLO5- PLO2- ILO1/ ILO3 | $100 \%$ of the students assessed performed at the proficiency level. |
| $\begin{gathered} \text { Fall } \\ 2016 \end{gathered}$ | IT110 | CLO1- PLO1- ILO1/ ILO3 | CLO 1 Midterm project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> CLO 1 Final project: $100.00 \%$ of the students assessed performed at the proficiency level. |
|  |  | CLO2- PLO1- ILO1/ ILO3 | CLO 2 Midterm project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> CLO 2 Final project: $100.00 \%$ of the students assessed performed at the proficiency level. |
|  |  | CLO3- PLO1- ILO1/ ILO3 | CLO 3 Midterm project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> CLO 3 Final project: $100.00 \%$ of the students assessed performed at the proficiency level. |
|  |  | CLO4- PLO1- ILO1/ ILO3 | CLO 4 Midterm project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> CLO 4 Final project: $100.00 \%$ of the students assessed performed at the proficiency level. |
| $\begin{gathered} \text { Fall } \\ 2016 \end{gathered}$ | MA 111 | $\begin{aligned} & \text { CLO1-PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO2- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO3- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students performed at the proficiency level. |


|  |  | $\begin{aligned} & \text { CLO4- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students performed at the proficiency level. |
| :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { CLO5- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO6- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students performed at the proficiency level. |
| $\begin{gathered} \text { Fall } \\ 2016 \end{gathered}$ | MA112 | $\begin{aligned} & \text { CLO1-PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | Two students were evaluated. $100 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO2- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | Two students were evaluated. $100 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO3- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | Two students were evaluated. $100 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO4- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | Two students were evaluated. $100 \%$ of the students performed at the proficiency level. |
| $\begin{gathered} \hline \text { Spring } \\ 2017 \end{gathered}$ | IT125 | CLO1- PLO1- ILO1/ ILO3 | CLO 1 Midterm project: $88 \%$ of the students assessed performed at the proficiency level. <br> CLO 1 Final project: $79 \%$ of the students assessed performed at the proficiency level. |
|  |  | CLO2- PLO1- ILO1/ ILO3 | CLO 2 Midterm project: $88 \%$ of the students assessed performed at the proficiency level. <br> CLO 2 Final project: $79 \%$ of the students assessed performed at the proficiency level. |
|  |  | CLO3- PLO1-ILO1/ ILO3 | CLO 3 Midterm project: $88 \%$ of the students assessed performed at the proficiency level. <br> CLO 3 Final project: $79 \%$ of the students assessed performed at the proficiency level. |
|  |  | CLO4- PLO1- ILO1/ ILO3 | CLO 4 Midterm project: $88 \%$ of the students assessed performed at the proficiency level. <br> CLO 4 Final project: $79 \%$ of the students assessed performed at the proficiency level. |
|  |  | CLO5- PLO1- ILO1/ ILO3 | CLO 5 Midterm project: $88 \%$ of the students assessed performed at the proficiency level. <br> CLO 5 Final project: $79 \%$ of the students assessed performed at the proficiency level. |
| Spring $2017$ | $\begin{gathered} \text { MA - } \\ 111 \end{gathered}$ | $\begin{aligned} & \text { CLO1- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \\ & \hline \end{aligned}$ | $100 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO2- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $16 \%$ of the students performed at the proficiency level. |
|  |  | CLO3-PLO1/PLO3- ILO1/ | $66 \%$ of the students performed at the proficiency level. |


|  |  | ILO3 |  |
| :---: | :---: | :---: | :---: |
|  |  | CLO4- PLO1/PLO3- ILO1/ ILO3 | $66 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO5- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | 66\% of the students performed at the proficiency level. |
| $\begin{aligned} & \hline \text { Spring } \\ & 2017 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { MA - } \\ & 121 \end{aligned}$ | $\begin{aligned} & \text { CLO1- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $96.5 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO2- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $86.5 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO3- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students performed at the competent level. |
|  |  | $\begin{aligned} & \text { CLO4- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $96.5 \%$ of the students performed at the competent level. |
|  |  | $\begin{aligned} & \text { CLO5- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | 90\% of the students performed at the competent level. |
|  |  | $\begin{aligned} & \text { CLO6- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $89.5 \%$ of the students performed at the competent level. |
|  |  | $\begin{aligned} & \text { CLO7- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $79.5 \%$ of the students performed at the competent level. |
| $\begin{array}{\|l} \hline \text { Spring } \\ 2017 \\ \hline \end{array}$ | $\begin{gathered} \text { MA - } \\ 221 \end{gathered}$ | $\begin{aligned} & \text { CLO1- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \\ & \hline \end{aligned}$ | $100.00 \%$ of the students performed at the competent level |
|  |  | $\begin{aligned} & \text { CLO2- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100.00 \%$ of the students performed at the competent level |
|  |  | $\begin{aligned} & \text { CLO3- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100.00 \%$ of the students performed at the competent level |
|  |  | $\begin{aligned} & \text { CLO4- PLO1/PLO3- ILO1/ } \\ & \text { ILO3- } \end{aligned}$ | $100.00 \%$ of the students performed at the competent level |
|  |  | $\begin{aligned} & \text { CLO5- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100.00 \%$ of the students performed at the competent level |
|  |  | $\begin{aligned} & \text { CLO6- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | No data collected (did not cover these topics) |
| $\begin{aligned} & \hline \text { Spring } \\ & 2017 \\ & \hline \end{aligned}$ | SC - 160 | $\begin{aligned} & \text { CLO1- PLO1,PLO2,PLO3- } \\ & \text { ILO1,ILO2, ILO3 } \\ & \hline \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level |
|  |  | $\begin{aligned} & \text { CLO2- PLO1,PLO2,PLO3- } \\ & \text { ILO1,ILO2, ILO3 } \end{aligned}$ | $88.89 \%$ of the students assessed performed at the proficiency level |
|  |  | $\begin{aligned} & \text { CLO3- PLO1,PLO2,PLO3- } \\ & \text { ILO1,ILO2, ILO3 } \end{aligned}$ | $77.78 \%$ of the students assessed performed at the proficiency level |
| $\begin{aligned} & \text { Spring } \\ & 2017 \end{aligned}$ | SC-205 | $\begin{aligned} & \text { CLO1-PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level |
|  |  | $\begin{aligned} & \text { CLO2- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level |
|  |  | $\begin{aligned} & \text { CLO3- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level |
|  |  | $\begin{aligned} & \text { CLO4- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level |
|  |  | $\begin{aligned} & \text { CLO5- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \\ & \hline \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level |
|  |  | CLO6- PLO1/PLO3- ILO1/ | $100 \%$ of the students assessed performed at the |


|  |  | ILO3 | proficiency level |
| :--- | :--- | :--- | :--- |
|  | CLO7- PLO1/PLO3- ILO1/ <br> ILO3 | $100 \%$ of the students assessed performed at the <br> proficiency level |  |

Year 3: School Year $\qquad$ S.Y. 2017-2018


|  |  | ILO3 | level. |
| :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Fall } \\ 2017 \end{gathered}$ | SC-161 | $\begin{aligned} & \text { CLO1- PLO1,PLO2,PLO3- } \\ & \text { ILO1,ILO2, ILO3 } \\ & \hline \end{aligned}$ | $42.86 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO2- PLO1,PLO2,PLO3- } \\ & \text { ILO1,ILO2, ILO3 } \end{aligned}$ | $100.00 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO3- PLO1,PLO2,PLO3- } \\ & \text { ILO1,ILO2, ILO3 } \\ & \hline \end{aligned}$ | $33.33 \%$ of the students performed at the proficiency level. |
| $\begin{gathered} \hline \text { Spring } \\ 2018 \end{gathered}$ | IT - 105 | CLO1- PLO2- ILO1/ ILO3 | $100 \%$ of the students assessed performed at the proficiency level. |
|  |  | CLO2- PLO2- ILO1/ ILO3 | $76 \%$ of the students assessed performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO3- PLO2/PLO5- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $96 \%$ of the students assessed performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO4- PLO2/PLO5- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level. |
|  |  | CLO5- PLO2- ILO1/ ILO3 | $100 \%$ of the students assessed performed at the proficiency level. |
| $\begin{gathered} \hline \text { Spring } \\ 2018 \end{gathered}$ | IT - 125 | CLO2- PLO2- ILO1/ ILO3 | CLO 1 Midterm project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> CLO 1 Final project: $75.00 \%$ of the students assessed performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO3- PLO2/PLO5- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | CLO 2 Midterm project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> CLO 2 Final project: $75.00 \%$ of the students assessed performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO4- PLO2/PLO5- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | CLO 3 Midterm project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> CLO 3 Final project: $75.00 \%$ of the students assessed performed at the proficiency level. |
|  |  | CLO5- PLO2- ILO1/ ILO3 | CLO 4 Midterm project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> CLO 4 Final project: $75.00 \%$ of the students assessed performed at the proficiency level. |
|  |  | CLO5- PLO1- ILO1/ ILO3 | CLO 5 Midterm project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> CLO 5 Final project: $75.00 \%$ of the students assessed performed at the proficiency level. |
| $\begin{aligned} & \text { Spring } \\ & 2018 \end{aligned}$ | MA - 111 | $\begin{aligned} & \text { CLO1-PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \\ & \hline \end{aligned}$ | $88.9 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO2- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \\ & \hline \end{aligned}$ | $77.78 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO3- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $88.89 \%$ of the students performed at the proficiency level. |


|  |  | $\begin{aligned} & \text { CLO4- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $77.78 \%$ of the students performed at the proficiency level. |
| :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { CLO5- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $55.56 \%$ of the students performed at the proficiency level. |
| $\begin{aligned} & \text { Spring } \\ & 2018 \end{aligned}$ | MA - 121 | $\begin{aligned} & \text { CLO1- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $67.86 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO2- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $85.71 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO3- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $89.29 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO4- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $72 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO5- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $72 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO6- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $56 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO7- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $72 \%$ of the students performed at the proficiency level. |
| $\begin{aligned} & \hline \text { Spring } \\ & 2018 \\ & \hline \end{aligned}$ | MA - 221 | $\begin{aligned} & \text { CLO1- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100.00 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO2- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100.00 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO3- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100.00 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO4- PLO1/PLO3- ILO1/ } \\ & \text { LLO3 } \end{aligned}$ | $100.00 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO5- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100.00 \%$ of the students performed at the proficiency level. |
|  |  | $\begin{aligned} & \text { CLO6- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100.00 \%$ of the students performed at the proficiency level. |
| $\begin{aligned} & \hline \text { Spring } \\ & 2018 \\ & \hline \end{aligned}$ | SC-160 | $\begin{aligned} & \text { CLO1- PLO1,PLO2,PLO3- } \\ & \text { ILO1,ILO2, ILO3 } \end{aligned}$ | $62.5 \%$ of the students assessed performed at the proficiency level |
|  |  | $\begin{aligned} & \text { CLO2- PLO1,PLO2,PLO3- } \\ & \text { ILO1,ILO2, ILO3 } \end{aligned}$ | $62.5 \%$ of the students assessed performed at the proficiency level |
|  |  | $\begin{aligned} & \text { CLO3- PLO1,PLO2,PLO3- } \\ & \text { ILO1,ILO2, ILO3 } \end{aligned}$ | $100.00 \%$ of the students assessed performed at the proficiency level |
| $\begin{aligned} & \hline \text { Spring } \\ & 2018 \end{aligned}$ | SC-205 | $\begin{aligned} & \text { CLO1-PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level |
|  |  | $\begin{aligned} & \text { CLO2- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level |
|  |  | $\begin{aligned} & \text { CLO3- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level |
|  |  | $\begin{aligned} & \text { CLO4- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \\ & \hline \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level |
|  |  | $\begin{aligned} & \text { CLO5- PLO1/PLO3- ILO1/ } \\ & \text { ILO3 } \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level |
|  |  | CLO6- PLO1/PLO3- ILO1/ | $100 \%$ of the students assessed performed at the |


|  |  | ILO3 | proficiency level |
| :--- | :--- | :--- | :--- |
|  | CLO7- PLO1/PLO3- ILO1/ <br> ILO3 | $100 \%$ of the students assessed performed at the <br> proficiency level |  |

Provide Summary of Course Assessment Data with analysis results in the box below. Summary should include how assessment results have led to improvement of course and program learning outcomes, student learning and student achievement.

For the above grids the CLO-PLO-ILO mapping is done strictly based on the individual programs and departments. For Spring 2016 SC160 course, the CLO-PLO-ILO mapping is done for only 3 CLOs because the mapping chart showed only 3 CLOs whereas the FAMED course assessment showed 11 CLOs as assessed. Initially there were 11 CLOs which were revised to 3 when a course revision was done. Overall, math proficiency tends to be lower in math required courses compared to science and technology required program courses.

## V. Program Learning Outcomes (PLOs) Assessment

Program Learning Outcomes Assessment Results

| $\begin{gathered} \text { Year } \\ \text { Assessed } \end{gathered}$ | $\begin{gathered} \text { PLO } \\ \text { Assessed } \end{gathered}$ | Proficiency Levels | Results of Assessments |
| :---: | :---: | :---: | :---: |
| FALL 2015 | $\begin{aligned} & \text { STEM } \\ & \text { PLO- } \end{aligned}$ | $\begin{aligned} & \text { SC161 CLO } 1 \\ & \text { SC161 CLO } 2 \\ & \text { SC161 CLO } 3 \end{aligned}$ | No STEM student was enrolled for the course during FALL 2015. |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO2 } \end{aligned}$ | $\begin{aligned} & \hline \text { SC161 CLO } 1 \\ & \text { SC161 CLO } 2 \\ & \text { SC161 CLO } 3 \end{aligned}$ | No STEM student was enrolled for the course during FALL 2015. |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO3 } \end{aligned}$ | IT105 CLO1 <br> IT105 CLO2 <br> IT105 CLO3 <br> IT105 CLO4 <br> IT105 CLO5 | No STEM student was enrolled for the course during FALL 2015. |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO4 } \end{aligned}$ | IT105 CLO1 <br> IT105 CLO2 <br> IT105 CLO3 <br> IT105 CLO4 <br> IT105 CLO5 <br> IT110 CLO1-75\% <br> IT110 CLO2 - 75\% <br> IT110 CLO3-75\% <br> IT110 CLO4-75\% | No STEM student was enrolled for the course during FALL 2015. <br> $75 \%$ of the students assessed performed at the proficiency level |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO5 } \end{aligned}$ | $\begin{aligned} & \text { MA112 CLO1- } \\ & 100 \% \\ & \text { MA112 CLO2- } \\ & 100 \% \\ & \text { MA112 CLO3- } \\ & 100 \% \\ & \text { MA112 CLO4- } \\ & 100 \% \\ & \text { MA112 CLO5- } \\ & \text { NOT ASSESSED } \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO6 } \end{aligned}$ | $\begin{aligned} & \text { MA111 CLO1- } \\ & 100 \% \\ & \text { MA111 CLO2- } \\ & 100 \% \\ & \text { MA111 CLO3- } \\ & 100 \% \end{aligned}$ | $100 \%$ of the students assessed performed at the proficiency level |


|  |  | $\begin{aligned} & \text { MA111 CLO4- } \\ & 100 \% \\ & \text { MA111 CLO5- } \\ & 100 \% \end{aligned}$ |  |
| :---: | :---: | :---: | :---: |
| Spring 2016 | $\begin{aligned} & \text { STEM } \\ & \text {-PLOI } \end{aligned}$ | $\begin{aligned} & \text { SC160 CLO1 } 100 \% \\ & \text { SC160 CLO1 33\% } \\ & \text { SC160 CLO2 } 33 \% \\ & \text { SC160 CLO3 } \\ & 100 \% \\ & \text { SC160 CLO4 100\% } \\ & \text { SC160 CLO4 66\% } \\ & \text { SC160 CLO5 100\% } \\ & \text { SC160 CLO6 33\% } \\ & \text { SC160 CLO7 66\% } \\ & \text { SC160 CLO8 100\% } \\ & \text { SC160 CLO9 33\% } \\ & \text { SC160 CLO10 66\% } \\ & \text { SC160 CLO11 } \\ & 100 \% \end{aligned}$ | $71.5 \%$ of the students assessed performed at the proficiency level |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO2 } \end{aligned}$ | $\begin{aligned} & \text { SC160 CLO1 } 100 \% \\ & \text { SC160 CLO1 33\% } \\ & \text { SC160 CLO2 33\% } \\ & \text { SC160 CLO3 } \\ & 100 \% \\ & \text { SC160 CLO4 100\% } \\ & \text { SC160 CLO4 66\% } \\ & \text { SC160 CLO5 100\% } \\ & \text { SC160 CLO6 33\% } \\ & \text { SC160 CLO7 66\% } \\ & \text { SC160 CLO8 100\% } \\ & \text { SC160 CLO9 33\% } \\ & \text { SC160 CLO10 66\% } \\ & \text { SC160 CLO11 } \\ & 100 \% \end{aligned}$ | $71.5 \%$ of the students assessed performed at the proficiency level |
|  | $\begin{aligned} & \hline \text { STEM } \\ & \text {-PLO3 } \end{aligned}$ | IT105 CLO1 95\% IT105 CLO2 30\% IT105 CLO3 92.5\% IT105 CLO4 70\% IT105 CLO5 95\% | $76.5 \%$ of the students assessed performed at the proficiency level |
|  | $\begin{aligned} & \hline \text { STEM } \\ & \text {-PLO4 } \end{aligned}$ | IT125 CLO1 89\% IT125 CLO2 89\% IT125 CLO3 89\% IT125 CLO4 89\% IT125 CLO5 89\% | $89 \%$ of the students assessed performed at the proficiency level |


|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO5 } \end{aligned}$ | MA121 CLO1 69\% MA121 CLO2 92\% MA121 CLO3 77\% MA121 CLO4 48\% MA121 CLO5 70\% MA121 CLO6 70\% MA121 CLO7 30\% <br> MA212 CLOI 100\% <br> MA212 CLO2 100\% <br> MA212 CLO3 100\% <br> MA2 12 CLO4 0\% MA212 CLO5 No data collected (did not cover the topic) MA2 12 CLO6 No data collected (did not cover the topic) | $85.1 \%$ of the students assessed performed at the proficiency level |
| :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO6 } \end{aligned}$ | MAlll CLO1 <br> Midterm papers were given back to students in teacher's error, hence no assessment shown. MA111 CLO2 Midterm papers were given back to students in teacher's error, hence no assessment shown. <br> MA111 CLO3 <br> Midterm papers were given back to students in teacher's error, hence no assessment shown. <br> MA111 CLO4 25\% MA111 CLO5 75\% <br> MA212 CLO1 100\% MA212 CLO2 100\% | $66.6 \%$ of the students assessed performed at the proficiency level |


|  |  | MA212 CLO3 100\% <br> MA212 CLO4 0\% MA2 12 CLO5 No data collected (did not cover the topic) MA212 CLO6 No data collected (did not cover the topic) |  |
| :---: | :---: | :---: | :---: |
| FALL 2016 | $\begin{aligned} & \text { STEM } \\ & \text {-PLOI } \end{aligned}$ | NO RECORDS FOUND for SC160, SC161, SC205 and SC206. | NO RECORDS FOUND |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO2 } \end{aligned}$ | NO RECORDS FOUND for SC160, SC161, SC205 and SC206. | NO RECORDS FOUND |
|  | $\begin{aligned} & \hline \text { STEM } \\ & \text {-PLO3 } \end{aligned}$ | IT105 CLO1 83\% IT105 CLO2 70\% IT105 CLO3 100\% IT105 CLO4 100\% IT105 CLO5 100\% | $90.6 \%$ of the students assessed performed at the proficiency level |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO4 } \end{aligned}$ | IT105 CLO1 83\% <br> IT105 CLO2 70\% <br> IT105 CLO3 100\% <br> IT105 CLO4 100\% <br> IT105 CLO5 100\% <br> IT110 CLO1 <br> Midterm Project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> Final Project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> IT110 CLO2 <br> Midterm Project: $100.00 \%$ of the students assessed performed at the proficiency level. | $96.4 \%$ of the students assessed performed at the proficiency level |


|  |  | Final Project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> IT110 CLO3 <br> Midterm Project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> Final Project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> IT110 CLO4 <br> Midterm Project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> Final Project: $100.00 \%$ of the students assessed performed at the proficiency level. |  |
| :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO5 } \end{aligned}$ | MA111 CLO1 100\% <br> MA111 CLO2 100\% <br> MA111 CLO3 100\% <br> MA111 CLO4 100\% <br> MA111 CLO5 100\% | $100 \%$ of the students assessed performed at the proficiency level |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO6 } \end{aligned}$ | MA112 CLO1 40\% <br> MA1 12 CLO2 60\% <br> MA1 12 CLO3 40\% <br> MA112 CLO4 80\% <br> MA112 CLO5 <br> 80\% <br> MA112 CLO6 | $63.3 \%$ of the students assessed performed at the proficiency level |

80\%

| $\begin{aligned} & \text { SPRING } \\ & 2017 \end{aligned}$ | $\begin{aligned} & \text { STEM } \\ & \text {-PLO } \end{aligned}$ | $\begin{aligned} & \text { SC160 CLO1 100\% } \\ & \text { SC160 CLO2 } \\ & 88.89 \% \\ & \text { SC160 CLO3 } \\ & 77.78 \% \end{aligned}$ | $88.89 \%$ of the students assessed performed at the proficiency level |
| :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO2 } \end{aligned}$ | $\begin{aligned} & \text { SC160 CLO1 } 100 \% \\ & \text { SC160 CLO2 } \\ & 88.89 \% \\ & \text { SC160 CLO3 } \\ & 77.78 \% \end{aligned}$ | $94.4 \%$ of the students assessed performed at the proficiency level |
|  |  | $\begin{aligned} & \text { SC205 CLO 1- } \\ & 100 \% \\ & \text { SC205 CLO 2- } \\ & 100 \% \\ & \text { SC205 CLO 3- } \\ & 100 \% \\ & \text { SC205 CLO 4- } \\ & 100 \% \\ & \text { SC205 CLO 5- } \\ & 100 \% \\ & \text { SC205 CLO 6- } \\ & 100 \% \\ & \text { SC205 CLO 7- } \\ & 100 \% \end{aligned}$ |  |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO3 } \end{aligned}$ | IT105 CLO1 <br> IT105 CLO2 <br> IT105 CLO3 <br> IT105 CLO4 <br> IT105 CLO5 | No STEM student was enrolled for the course during FALL 2015. |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO4 } \end{aligned}$ | IT125 CLO1 <br> Midterm Project: $88.00 \%$ of the students assessed performed at the proficiency level. | $94.5 \%$ of the students assessed performed at the proficiency level |
|  |  | Final Project: $79.00 \%$ of the students assessed performed at the proficiency level. |  |
|  |  | IT125 CLO2 Midterm Project: $88.00 \%$ of the |  |


|  | students assessed |  |
| :---: | :---: | :---: |
|  | performed at the |  |
|  | proficiency level. <br> Final Project: $79.00 \%$ of the students assessed |  |
|  | performed at the proficiency level <br> IT125 CLO3 <br> Midterm Project: $88.00 \%$ of the students assessed performed at the proficiency level. <br> Final Project: <br> $79.00 \%$ of the students assessed performed at the proficiency level <br> IT125 CLO3 <br> Midterm Project: $88.00 \%$ of the students assessed |  |
|  | performed at the proficiency level. <br> Final Project: <br> $79.00 \%$ of the |  |
|  | students assessed performed at the proficiency level <br> IT125 CLO3 <br> Midterm Project: 88.00\% of the students assessed performed at the proficiency level. <br> Final Project: $79.00 \%$ of the students assessed performed at the proficiency level |  |


|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO5 } \end{aligned}$ | MA121 CLO1 $96.5 \%$ MA121 CLO2 $86.5 \%$ MA121 CLO3 $100 \%$ MA121 CLO4 $96.5 \%$ MA121 CLO5 90\% MA121 CLO6 $89.5 \%$ MA121 CLO7 $79.5 \%$ MA221 CLO1 $100 \%$ MA221 CLO2 $100 \%$ MA221 CLO3 $100 \%$ MA221 CLO4 $100 \%$ MA221 CLO5 $100 \%$ MA221 CLO6 No data collected (did not cover these topics) | $95.6 \%$ of the students assessed performed at the proficiency level |
| :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO6 } \end{aligned}$ | MA111 CLO1 100\% <br> MA111 CLO2 16\% <br> MA111 CLO3 <br> 66\% <br> MAl11 CLO4 66\% <br> MA111 CLO5 66\% <br> MA221 CLO1 100\% <br> MA221 CLO2 <br> 100\% <br> MA221 CLO3 <br> 100\% <br> MA221 CLO4 <br> 100\% <br> MA221 CLO5 <br> 100\% | $81.4 \%$ of the students assessed performed at the proficiency level |


|  |  | MA221 CLO6 <br> No data collected (did not cover these topics) |  |
| :---: | :---: | :---: | :---: |
| FALL 2017 | $\begin{aligned} & \text { STEM } \\ & \text { PLO- } \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { SC161 CLO } 1 \\ 42.86 \% \\ \text { SC161 CLO } 2 \\ 100.00 \% \\ \text { SC161 CLO } 3 \\ 33.33 \% \end{array}$ | $58.73 \%$ of the students assessed performed at the proficiency level |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO2 } \end{aligned}$ | $\begin{aligned} & \text { SC161 CLO } 1 \\ & 42.86 \% \\ & \text { SC161 CLO } 2 \\ & 100.00 \% \\ & \text { SC161 CLO } 3 \\ & 33.33 \% \end{aligned}$ | $58.73 \%$ of the students assessed performed at the proficiency level |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO3 } \end{aligned}$ | $\begin{aligned} & \text { IT105 CLO1 } \\ & \text { IT105 CLO2 } \\ & \text { IT105 CLO3 } \\ & \text { IT105 CLO4 } \\ & \text { IT105 CLO5 } \\ & \hline \end{aligned}$ | No STEM student was enrolled for the course during Fall 2017. |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO4 } \end{aligned}$ | IT105 CLO1 <br> IT105 CLO2 <br> IT105 CLO3 <br> IT105 CLO4 <br> IT105 CLO5 <br> IT110 CLO1 <br> Midterm Project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> Final Project: $100.00 \%$ of the students assessed performed at the proficiency level. <br> IT110 CLO2 <br> Midterm Project: $83.33 \%$ of the students assessed performed at the proficiency level. | No STEM student was enrolled for the course during Fall 2017. <br> $71.3 \%$ of the students assessed performed at the proficiency level |


|  |  | Final Project: $40.00 \%$ of the students assessed performed at the proficiency level. IT110 CLO3 Midterm Project: $83.33 \%$ of the students assessed performed at the proficiency level. Final Project: $40.00 \%$ of the students assessed performed at the proficiency level IT110 CLO4 Midterm Project: $83.33 \%$ of the students assessed performed at the proficiency level. Final Project: $40.00 \%$ of the students assessed performed at the proficiency level |  |
| :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO5 } \end{aligned}$ | ```MA112 CLO1- 75\% MA112 CLO2- 100\% MA112 CLO3- 100\% MA112 CLO4-75\% MA112 CLO5- 100\%``` | $88.35 \%$ of the students assessed performed at the proficiency level |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO6 } \end{aligned}$ | MA111 CLO1- $93.33 \%$ MA111 CLO2- $100 \%$ MA111 CLO3- $73.33 \%$ MA111 CLO4- $86.67 \%$ |  |


|  |  | $\begin{aligned} & \text { MA111 CLO5- } \\ & 80 \% \end{aligned}$ |  |
| :---: | :---: | :---: | :---: |
| $\begin{gathered} \hline \text { SPRING } \\ 2018 \end{gathered}$ | $\begin{aligned} & \text { STEM } \\ & \text {-PLOI } \end{aligned}$ | $\begin{aligned} & \text { SC160 CLO1 } \\ & 62.5 \% \\ & \text { SC160 CLO2 } \\ & 62.5 \% \\ & \text { SC160 CLO3 } \\ & 100.00 \% \end{aligned}$ | $75 \%$ of the students assessed performed at the proficiency level |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO2 } \end{aligned}$ | SC160 CLO1 $62.5 \%$ SC160 CLO2 $62.5 \%$ SC160 CLO3 $100.00 \%$ SC205 CLO 1- $100 \%$ SC205 CLO 2- $100 \%$ SC205 CLO 3- $100 \%$ SC205 CLO 4- $100 \%$ SC205 CLO 5- $100 \%$ SC205 CLO 6- $100 \%$ SC205 CLO 7- $100 \%$ $I T$ | $87.5 \%$ of the students assessed performed at the proficiency level |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO3 } \end{aligned}$ | $\begin{aligned} & \text { IT105 CLO1 } \\ & 100 \% \\ & \text { IT105 CLO2 } \\ & 76 \% \\ & \text { IT105 CLO3 } \\ & 96 \% \\ & \text { IT105 CLO4 } \\ & \text { 100\% } \\ & \text { IT105 CLO5 } \\ & 100 \% \\ & \hline \end{aligned}$ | $94.4 \%$ of the students assessed performed at the proficiency level |
|  | $\begin{aligned} & \text { STEM } \\ & \text {-PLO4 } \end{aligned}$ | IT125 CLO1 <br> Midterm Project: $100.00 \%$ of the students assessed performed at the proficiency level. | $87.5 \%$ of the students assessed performed at the proficiency level |

