ASSESSMENT METHODS OF MATHEMATICS PROGRAM OUTCOMES DEPARTMENT OF MATHEMATICS

| OUTCOMES | ACTIONS | ASSESMENT <br> METHODS | WHEN | HOW |
| :--- | :--- | :--- | :--- | :--- | :--- | WHO


|  |  | ALES | At Graduation | Median, Worst)] by Inference | QAQ** |
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| 4. have a basic knowledge of economics, information sciences and social sciences, | $\begin{aligned} & \text { MATH 142; } \\ & \text { ECO 101; } \\ & \text { IT101; } \\ & \text { Departmental Electives; } \\ & \text { Complementary courses; } \\ & \text { HSS electives. } \end{aligned}$ | Course examinations and grades | At the end of every semester when the related course is offered | Students take examinations in class [keep one per course (Best, Median, Worst)] | Instructor |
| 5. have an ability to write computer programs and use algorithms for solving problems, | MATH 142, 200, 302, 427, 428; IT101; CSE101, 201; <br> Departmental Electives; Complementary courses. | Course examinations and grades | At the end of every semester when the related course is offered | Students take examinations in class [keep one per course (Best, Median, Worst)] | Instructor |
| 6. have a basic knowledge of the main fields of mathematics, including analysis, algebra, differential equations, differential geometry, | $\begin{aligned} & \text { MATH 101, 102, 142, 200, 201, 212, } \\ & \text { 214, 220, 230, 231, 232, 302, 311, } \\ & \text { 312, 313, 321, 322, 323, 324, 343, } \\ & \text { 425, 426, 441, 461, 462; } \\ & \text { Departmental Electives. } \end{aligned}$ | Course examinations and grades | At the end of every semester when the related course is offered | Students take examinations in class [keep one per course (Best, Median, Worst)] | Instructor |
| 7. have an ability to function both independently and as a member of a multidisciplinary team, | $\begin{aligned} & \text { MATH 101, 102, 142, 200, 201, 212, } \\ & \text { 230, 232, 313, 441; } \\ & \text { Free Electives; } \\ & \text { HSS Electives. } \end{aligned}$ | Course examinations and grades | At the end of every semester when the related course is offered | Students take examinations in class [keep one per course (Best, | Instructor |


|  |  | Project Reports, <br> Project <br> Presentations | During and at the end of every semester when the related course is offered | Median, Worst)] <br> All students present projects reports and make presentations | Instructor |
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| 8. communicate effectively both in written and oral formats, | MATH 441; <br> PHYS 103, 104; <br> TUR 101, 102; <br> HIST 101, 102; <br> ENG101, 102; <br> HSS Electives; <br> Free Electives. | Course examinations and grades | At the end of every semester when the related course is offered | Students take examinations in class [keep one per course (Best, Median, Worst)] | Instructor |
|  |  | Project Reports, <br> Project <br> Presentations | During and at the end of every semester when the related course is offered | All students present projects reports and make presentations | Instructor |
| 9. attain a recognition of the need for, and an ability to engage in life-long learning, | Free Electives; HSS Electives. | Course examinations and grades |  | Students take examinations in class [keep one per course (Best, Median, Worst)] | Instructor |


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| 10. have an ability to recognize <br> the importance of ethics in <br> professional life, | MATH 441 <br> Free Electives; <br> HSS Electives. | Course examinations <br> and grades | At the end of <br> every semester <br> when the <br> related course is <br> offered | Students take <br> examinations <br> in class [keep <br> one per <br> course (Best, <br> Median, <br> Worst)] |

