| Mathematics 1 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Basic Course Information <br> Course Number <br> 01005009 |  | Sublect Catesory | Camoubery M |  |
| Class Format | Leatue | Corodits Croo and Number of | 25 |  |
|  | ${ }_{\text {Menhatanes }}^{\text {Semeter }}$ | Studiden Category | ${ }_{5}$ rear |  |
| Peautired Materiels | "Precalculus, mathematics for calculus" 7th edition by and Stewart. Redlin, and Watson and Precalculus". "College Algebra" 2nd edition by OpenStax |  |  |  |
|  |  |  |  |  |
| So Obietive |  |  |  |  |
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| Evaluationfubural |  |  | Unacombabe Lewe of |  |
| Evalation 1 | Candraveranh of ary cuataich | Candraw Eeamb of bas and |  |  |
|  |  |  |  |  |
| Evalation 2 | Can solve complicated polynomial and rational equations and inequalities by both algebraic and | Can solve basic polynomial and rational equations and inequalities by algebraic or graphic approach. |  |  |
| Evalation 3 |  |  |  |  |
|  | exponential, logarithmic and trigonometric functions using their trisonomet properties. | exponential logarithmic and trigonometric functions using their prooerties. | logarithmic or trigonometric functions. |  |
| atom 4 | Can solve complicated equations logarithmic and trigonometric |  | Can't solve basic equations or inequalities with exponential. logarithmic or trigonometric |  |
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| Please chanes |  |  |  |  |
| Teachine Method |  |  |  |  |
| $\begin{array}{\|l\|} \hline \text { Outline: } \\ \hline \text { Class Format: } \\ \hline \text { Please Note : } \\ \hline \end{array}$ | Lecture. Dril. Groun Work, and Presentation <br> Class format is subject to change depending on students' prior knowledge and preparation |  |  |  |
|  |  |  |  |  |
| $\mathrm{Course}^{\text {Plan }}$ Semester 1 | Contents and Nethod of Course |  |  |  |
|  |  |  | Can explain the definitions of ntervals, absolute value sal root. and complex number | Roatad MCC |
| 1 ss Weak |  |  |  |  |
|  | Chanter 1 : Fundementals |  |  |  |
| 2 ndWeok | Chanter 2: Functions |  | Can delina a turction and daw | 1 |
|  |  |  | graphs of basic functions. Can draw graphs by applying translation, reflection, and |  |
|  |  |  |  |  |
| ${ }^{\text {arc Week }}$ | Chaoter 2 : Unear functions |  |  | 1+17 |
|  |  |  | Can define lnear functions, and draw their graphs. Can solve linear equations and inequalities |  |
|  |  |  |  |  |
| 4 th Week | ${ }^{1 s t}$ Quanere Feammaton $15 \%$ |  | ${ }^{1 s t}$ Week-3a Week |  |
|  |  |  |  |
| $5{ }^{\text {5n Week }}$ | Chaneer 2: Absodure Value functons |  |  | Can explain and cakulate abodute | 1.4 |
|  |  |  | value. Can define absolute value functions and draw their graphs. Can solve absolute value equation |  |
|  |  |  |  |  |
| 6 6nWeek | Chanter 3 : Quadratic Finetions |  |  | $1 \quad 7$ <br> 1 <br> 1 <br> 11 |
|  |  |  | draw their graphs. Can solve quadratic, higher-order equations | $\stackrel{1}{1}$ |
|  |  |  |  |  |
| 7 th Week | Chanter 3: Pdymomal Functions |  |  | $1 \quad 1 \quad \frac{1}{2}$ |
|  |  |  | lone civision on polynomials and use the factor theorem for |  |
| ${ }_{\text {8in Week }}$ | Chanter 3 : Pational functions |  |  | 1 |
|  |  |  |  | + 14 |
|  |  |  |  |  |
| Sth Week | Moderem Examinaton $200 \%$ |  |  |  |
|  |  |  |  |
| 10 W Weok | Chanerer 3 : Fadical functions |  |  |  | $\begin{array}{r}1 \quad 5 \\ \hline 10 \\ \hline 10\end{array}$ |
|  |  |  |  | $1+14$ <br> 1 |
|  |  |  |  |  |
| 11 hrweak | Chapter 4 : Esonenenal Functions |  | Canemblanan arkuate | 17 <br> 18 |
|  |  |  | exponents. Can define exponential functions and draw their graphs. Can solve exponential equations |  |
|  |  |  | and heouatuosenemamuautus |  |
| ${ }^{12 \text { n Weak }}$ | Chanter 4: Loearathmic Functions |  | Conembanand apkuate | $\begin{array}{r}1 \\ \hline 19 \\ \hline 1 \\ \hline\end{array}$ |
|  |  |  | ogarithms. Can define logarithmic functions and draw their graphs. Can solve logarithmic equations |  |
|  |  |  |  |  |
| ${ }^{13}$ W Weak | $3{ }^{\text {ard Quaree Eamination } 20 \% \% 1}$ |  | 1 1ort Week-12tw Weak |  |
|  |  |  |  |
| 14 th Weok | Chaotere 5: TTemenmeneric Patios |  |  |  | $1+26$ <br> 1 |
|  |  |  | trignometric ratios and use them to find lengths and angles of a given |  |
|  |  |  |  |  |
| 15 h Weok | Chantere 5: Trenconeticic Functions |  | Can undestand how riemonoetro | $1{ }^{1}$ |
|  |  |  | functions relate to right triangles and extend the defiritions of the trigonometric functions beyond |  |
|  |  |  |  |  |
| 16 n Weok | Chaoter 5: Graoh of Tremonometric Functione |  |  | ${ }^{1+27}$ |
|  |  |  |  |  |
|  |  |  |  |  |
| 17 T Wek | Chaotere 5: Tremonometic Eavaions |  |  | 12 <br> 1 |
|  |  |  | and graphs of trizonometric <br> functions. |  |
| 18 ¢ Wook |  |  |  | ${ }^{1}{ }^{22}$ |
|  |  |  | trigonometric functions and find the exact value of expressions involing the inverse trigonometric functions. |  |
|  |  |  |  |  |
| 19 W Weak | Final Esarneation $20 \% \%$ |  | 14.6 Weak - 18 st Weak |  |
|  |  |  |  |
| 20 Weak |  |  |  | Summan |  |
|  |  |  |  |  |
|  |  |  | Donot |  |
|  | $\begin{array}{\|l} \hline \text { Examination } \\ \hline 75 \\ \hline \end{array}$ | Clasas Partioation | Orins sumisision | oor Peratoo Other |
|  |  |  |  | $\bigcirc$ |

