Tamkang University Academic Year 108, 2nd Semester Course Syllabus


Cultivate professional talents in developing and applying information system in various fields.

## Subject Departmental core competences

B. Capability of applying basic mathematics and information technology related mathematics(ratio:100.00)

Subject Schoolwide essential virtues
2. Information literacy. (ratio:60.00)
5. Independent thinking. (ratio:40.00)

|  | The course gives an introductory concept of Linear Algebra with examples and <br> application contents in order to establish foundations for advanced courses. <br> Course <br> Introduction |
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The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.
Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.
I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.
II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.
III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.


| 12$109 / 05 / 18 ~$ <br> $109 / 05 / 24$ | Ch 5．General Vector Spaces |
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| $13 \begin{aligned} & 109 / 05 / 25 \text {～} \\ & 109 / 05 / 31\end{aligned}$ | Ch 5．General Vector Spaces |
| 14109／06／01～ <br> 109／06／07 | Ch 6．Inner Product Spaces |
| 15$109 / 06 / 08 ~$ <br> $109 / 06 / 14$ | Ch 6．Inner Product Spaces |
| 16$109 / 06 / 15$～ <br> $109 / 06 / 21$ | Ch 6．Inner Product Spaces |
| 17$109 / 06 / 22 ~$ <br> $109 / 06 / 28$ | Final Exam Week（Date：109／6／18－109／6／24） <br> Ch 7．Eigenvalues，Eigenvectors |
| 18$109 / 06 / 29 \sim$ <br> $109 / 07 / 05$ | Extra Topic |
| Requirement | 1．Attendance of all classes is required． <br> 請務必出席所有課程。 <br> 2．Any absence will result in at least 5 points of＂Participation and performance＂ deducted．Please call me or text me before class． <br> 病假事假扣「課堂表現」5分，請上課前通知老師。 <br> 3．Absence without leave will result in 30 points of＂Participation and performance＂ deducted． <br> 曠課每次扣「課堂表現」30分。 <br> 4．Cheating or plagiarism will result in failure in the course． <br> 作弊，抄襲會導致本課程不及格。 <br> 5．Talking，eating，using mobile phone and wearing slippers during class are not allowed， and will be expelled from the class． <br> 上課請勿： <br> 交談，飲食，使用行動電話，或穿著拖鞋。 <br> 以上行為因影響教師課程進行，將被要求離開教 <br> 室。 <br> 6．Late arrival，early departure（over 20 minutes），and the stated inappropriate behavior will result in 30 points of＂Participation and performance＂deducted． <br> 遅到，早退（超過20分鐘），及前述不當行為每次 <br> 扣「課堂表現」 30 分。 <br> 7．There will be at least 6 home assignments and 4 quizzes． |
| Teaching Facility | Computer，Projector |
| Textbooks and Teaching Materials | Elementary Linear Algebra，Anton and Rorres，John Wiley and Sons，11th or the latest edition． |
| References |  |
| Number of Assignment（s） | 6 （Filled in by assignment instructor only） |
| Grading Policy | －Attendance：$\quad \%$ Mark of Usual：40．0 \％Midterm Exam：20．0 $\%$ Final Exam： $20.0 \%$ $\bullet$ 0ther〈Performance〉： $20.0 \%$ |


| Note | This syllabus may be uploaded at the website of Course Syllabus Management System at <br> http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the <br> home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php. <br> ※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime <br> to improperly photocopy others' publications. |
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