



**Universitas Negeri Surabaya**  
**Faculty of Sports and Health Sciences**  
**Bachelor of Sports Science Study Program**

Document  
Code

### SEMESTER LEARNING PLAN

|  |   |  |                                   |  |                                   |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|--|---|--|-----------------------------------|--|-----------------------------------|--|------------------------------|---|---|----|----|----|----|----|----|----|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| <b>Courses</b>                         | <b>CODE</b>   | <b>Course Family</b>   | <b>Credit Weight</b>              | <b>SEMESTER</b>  | <b>Compilation Date</b>           |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| Sports Kinesiology                     | 8920103082  |  | T=3   P=0   ECTS=4.77             | 4  | July 17, 2024                     |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| <b>AUTHORIZATION</b>                   | <b>SP Developer</b>   |  | <b>Course Cluster Coordinator</b> |  | <b>Study Program Coordinator</b>  |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|  | .....   |  | .....                             |  | Dr. Heri Wahyudi, S.Or.,<br>M.Pd. |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| <b>Learning model</b>                  | Case Studies  |  |                                   |  |                                   |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| <b>Program Learning Outcomes (PLO)</b> | PLO study program that is charged to the course   |  |                                   |  |                                   |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|  | Program Objectives (PO)   |  |                                   |  |                                   |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|  | PLO-PO Matrix   |  |                                   |  |                                   |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|  |   | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td style="width: 100px; height: 20px;">P.O</td></tr> </table> |                                   |  |                                   |  | P.O                          |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| P.O                                    |   |  |                                   |  |                                   |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|  | PO Matrix at the end of each learning stage (Sub-PO)  |  |                                   |  |                                   |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|  | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 30px; height: 20px;">P.O</td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td></td> <td style="width: 20px;">1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td> </tr> </table>  |  |                                   |  |                                   | P.O                                      | Week                         |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| P.O                                    | Week  |  |                                   |  |                                   |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|  | 1   | 2  | 3                                 | 4  | 5                                 | 6  | 7                            | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| <b>Short Course Description</b>        | Mastering the study of basic concepts of kinesiology which includes the basics of kinesiology, skeletal system, joints, arthrokinematics, muscular system, nervous system and basic biomechanics through explanations and discussions so that students can explain the mechanisms of body movement again  |  |                                   |  |                                   |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| <b>References</b>                      | <b>Main :</b>   |  |                                   |  |                                   |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|  | <ol style="list-style-type: none"> <li>1. Graff, K.D ., 2001. Human Anatomy . 6th ed. New York : Mc Graw-Hill Company</li> <li>2. Hartono, S.2007. Anatomi Dasar dan Kinesiologi . Surabaya : Unesa University Press</li> <li>3. Handout Kinesiologi</li> <li>4. Lippert, L.S. 2006. Clinical Kinesiology and Anatomy . 4th ed. Philadelphia : F. A Davis Company</li> <li>5. Seeley, R. Stephens, T. &amp; Tate, P. 2001. Essential of Anatomy and Physiology . 4th ed. New York: The McGraw"12Hill Company</li> </ol> |  |                                   |  |                                   |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|  | <b>Supporters:</b>  |  |                                   |  |                                   |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| <b>Supporting lecturer</b>             | Dr. Achmad Widodo, M.Kes.<br>Dr. Joesoef Roepajadi, M.Pd.<br>dr. Erick Tanara, Sp. An<br>dr. Alviannur Halim<br>Awang Firmansyah, S.Or., M.Kes.   |  |                                   |  |                                   |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| <b>Week-</b>                           | <b>Final abilities of each learning stage (Sub-PO)</b>  | <b>Evaluation</b>  |                                   | <b>Help Learning, Learning methods, Student Assignments, [ Estimated time]</b> |                                   | <b>Learning materials [ References ]</b> | <b>Assessment Weight (%)</b> |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|  |   | <b>Indicator</b>   | <b>Criteria &amp; Form</b>        | <b>Offline ( offline )</b>   | <b>Online ( online )</b>          |  |                              |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| (1)                                    | (2)   | (3)  | (4)                               | (5)  | (6)                               | (7)                                      | (8)                          |   |   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |

|   |                                      |  |   |  |  |  |    |
|---|--------------------------------------|--|---|--|--|--|----|
| 1 | Understand the basics of Kinesiology | <ol style="list-style-type: none"> <li>1.Explain the definition of kinesiology</li> <li>2.Mention the terminology of anatomical body positions</li> <li>3.Explain the types of movement</li> <li>4.Explain joint movement</li> </ol>                       | <p><b>Criteria:</b></p> <ol style="list-style-type: none"> <li>1.The assessment is carried out on the following aspects:</li> <li>2.1. Participation during lectures and peer teaching, carried out through observation (weight 2)</li> <li>3.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)</li> <li>4.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)</li> <li>5.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)</li> <li>6.5. The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10</li> </ol> | Lectures, discussions, questions and answers<br>2 X 50 |  |  | 0% |
| 2 | Understand the skeletal system       | <ol style="list-style-type: none"> <li>1.Explain the function of the skeletal system</li> <li>2.Mention the types of skeletal systems</li> <li>3.State the composition of bones</li> <li>4.Mention bone structure</li> <li>5.Mention bone types</li> </ol> | <p><b>Criteria:</b></p> <ol style="list-style-type: none"> <li>1.1. Participation during lectures and peer teaching, carried out through observation (weight 2)</li> <li>2.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)</li> <li>3.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)</li> <li>4.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)</li> <li>5.The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10</li> </ol>   | Lectures, discussions, questions and answers<br>2 X 50 |  |  | 0% |

|   |                                |  |  |  |  |    |
|---|--------------------------------|--|--|--|--|----|
| 3 | Understand the joint system    | <ol style="list-style-type: none"> <li>1.Mention the types of joints</li> <li>2.Mention the structure of joints</li> <li>3.Explain the terms pathology of bones and joints</li> <li>4.Explain planes and axes</li> <li>5.Explain the range of motion of a joint</li> </ol> | <p><b>Criteria:</b></p> <ol style="list-style-type: none"> <li>1.1. Participation during lectures and peer teaching, carried out through observation (weight 2)</li> <li>2.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)</li> <li>3.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)</li> <li>4.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)</li> <li>5.5. The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10</li> </ol> | Lectures, discussions, questions and answers<br>2 X 50 |  | 0% |
| 4 | Understanding Arthrokinematics | <ol style="list-style-type: none"> <li>1.Explaining Osteokinematic Movement</li> <li>2.Explaining Arthrokinematic Movement</li> </ol>  | <p><b>Criteria:</b></p> <ol style="list-style-type: none"> <li>1.1. Participation during lectures and peer teaching, carried out through observation (weight 2)</li> <li>2.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)</li> <li>3.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)</li> <li>4.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)</li> <li>5.5. The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10</li> </ol> | Lectures, discussions, questions and answers<br>2 X 50 |  | 0% |

|   |  |  |  |  |  |    |
|---|--|--|--|--|--|----|
| 5 | Understand the muscular system         | <ol style="list-style-type: none"> <li>1.Mention origin and insertion</li> <li>2.Mention the naming of muscles</li> <li>3.State the arrangement of muscle fibers</li> <li>4.Explain muscle contractions</li> <li>5.Explain the angle of attraction</li> <li>6.Explain Kinetic chain</li> </ol> | <p><b>Criteria:</b></p> <ol style="list-style-type: none"> <li>1.1. Participation during lectures and peer teaching, carried out through observation (weight 2)</li> <li>2.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)</li> <li>3.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)</li> <li>4.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)</li> <li>5.5. The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10</li> </ol> | Lectures, discussions, questions and answers<br>2 X 50 |  | 0% |
| 6 | Understanding about the nervous system | <ol style="list-style-type: none"> <li>1.Explain Neural Networks</li> <li>2.Explain the central nervous system</li> <li>3.Explain the peripheral nervous system</li> </ol>   | <p><b>Criteria:</b></p> <ol style="list-style-type: none"> <li>1.1. Participation during lectures and peer teaching, carried out through observation (weight 2)</li> <li>2.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)</li> <li>3.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)</li> <li>4.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)</li> <li>5.5. The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10</li> </ol> | Lectures, discussions, questions and answers<br>2 X 50 |  | 0% |

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|---|---|--|--|--|--|--|----|
| 7 | Understanding of basic Biomechanics         | <ol style="list-style-type: none"> <li>1.Explain Newton's laws of motion</li> <li>2.Explaining the Force</li> <li>3.Explaining Torque</li> <li>4.Explaining Stability</li> </ol>   | <p><b>Criteria:</b></p> <ol style="list-style-type: none"> <li>1.1. Participation during lectures and peer teaching, carried out through observation (weight 2)</li> <li>2.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)</li> <li>3.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)</li> <li>4.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)</li> <li>5.5. The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10</li> </ol> | Lectures, discussions, questions and answers<br>2 X 50 |  |  | 0% |
| 8 | UTS   |  |  | 2 X 50   |  |  | 0% |
| 9 | Understanding upper extremity kinesiology 1 | <ol style="list-style-type: none"> <li>1.Determine the bones, joints and ligaments in the shoulder girdle</li> <li>2.Determining the Muscles in the Shoulder Girdle</li> <li>3.Determine the bones, joints and ligaments in the shoulder joint</li> <li>4.Determining the muscles in the shoulder joint</li> </ol> | <p><b>Criteria:</b></p> <ol style="list-style-type: none"> <li>1.1. Participation during lectures and peer teaching, carried out through observation (weight 2)</li> <li>2.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)</li> <li>3.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)</li> <li>4.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)</li> <li>5.5. The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10</li> </ol> | Lectures, discussions, questions and answers<br>2 X 50 |  |  | 0% |

|    |  |   |  |  |  |  |    |
|----|--|---|--|--|--|--|----|
| 10 | Understand upper extremity kinesiology 2 | <ol style="list-style-type: none"> <li>1. Determine the bones, joints and ligaments at the elbow joint and wrist joint</li> <li>2. Determine the muscles at the elbow joint and wrist joint</li> <li>3. Determine the bones, joints and ligaments of the hand</li> <li>4. Determine the muscles in the hand</li> </ol>          | <p><b>Criteria:</b></p> <ol style="list-style-type: none"> <li>1.1. Participation during lectures and peer teaching, carried out through observation (weight 2)</li> <li>2.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)</li> <li>3.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)</li> <li>4.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)</li> <li>5.5. The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10</li> </ol> | Lectures, discussions, questions and answers<br>2 X 50 |  |  | 0% |
| 11 | Understand body kinesiology 1            | <ol style="list-style-type: none"> <li>1. Determine the bones, joints and ligaments in the temporomandibular joint</li> <li>2. Determining the muscles in the temporomandibular joint</li> <li>3. Determines bones, joints and ligaments in the neck and body</li> <li>4. Determine the muscles in the neck and body</li> </ol> | <p><b>Criteria:</b></p> <ol style="list-style-type: none"> <li>1.1. Participation during lectures and peer teaching, carried out through observation (weight 2)</li> <li>2.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)</li> <li>3.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)</li> <li>4.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)</li> <li>5.5. The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10</li> </ol> | Lectures, discussions, questions and answers<br>2 X 50 |  |  | 0% |

|    |   |  |  |  |  |  |    |
|----|---|--|--|--|--|--|----|
| 12 | Understand body kinesiology 2               | <ol style="list-style-type: none"> <li>1. Determine the bones, joints and ligaments of the respiratory system</li> <li>2. Determine the muscles of the respiratory system</li> <li>3. Determine the bones, joints and ligaments of the pelvic girdle</li> <li>4. Determine the muscles in the pelvic girdle</li> </ol> | <p><b>Criteria:</b></p> <ol style="list-style-type: none"> <li>1.1. Participation during lectures and peer teaching, carried out through observation (weight 2)</li> <li>2.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)</li> <li>3.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)</li> <li>4.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)</li> <li>5.5. The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10</li> </ol> | Lectures, discussions, questions and answers<br>2 X 50 |  |  | 0% |
| 13 | Understanding lower extremity kinesiology 1 | <ol style="list-style-type: none"> <li>1. Determine the bones, joints and ligaments in the hip and knee</li> <li>2. Determine the muscles in the hip and knee</li> </ol>   | <p><b>Criteria:</b></p> <ol style="list-style-type: none"> <li>1.1. Participation during lectures and peer teaching, carried out through observation (weight 2)</li> <li>2.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)</li> <li>3.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)</li> <li>4.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)</li> <li>5.5. The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10</li> </ol> | Lectures, discussions, questions and answers<br>2 X 50 |  |  | 0% |

|    |   |  |  |  |  |  |    |
|----|---|--|--|--|--|--|----|
| 14 | Understanding lower extremity kinesiology 2 | 1.Determine the bones, joints and ligaments in the ankle joint and foot<br>2.Determine the muscles in the ankle joint and foot | <b>Criteria:</b><br>1.1. Participation during lectures and peer teaching, carried out through observation (weight 2)<br>2.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)<br>3.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)<br>4.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)<br>5.5. The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10 | Lectures, discussions, questions and answers<br>2 X 50 |  |  | 0% |
| 15 | Understand posture and gait (gait)          | 1.Explaining Posture<br>2.Explain about gait   | <b>Criteria:</b><br>1.1. Participation during lectures and peer teaching, carried out through observation (weight 2)<br>2.2. The subsummative test (UTS) is carried out once with indicators 1-7 via a written exam and is given a weight (2)<br>3.3. Assessment of written tests in peer teaching and practicum is considered an assignment, the scores are averaged, then weighted (3)<br>4.4. UAS scores are carried out in writing with indicators 9-16 given a weight (3)<br>5.5. The final NA is (participation value x2) (assignment value x 3) (UTS value x 2) UAS value (3) divided by 10 | Lectures, discussions, questions and answers<br>2 X 50 |  |  | 0% |
| 16 | UAS   |  |  | 2 X 50   |  |  | 0% |

**Evaluation Percentage Recap: Case Study**

| No | Evaluation | Percentage |
|----|------------|------------|
|    |            | 0%         |



## Notes

1. **Learning Outcomes of Study Program Graduates (PLO - Study Program)** are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
2. **The PLO imposed on courses** are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
4. **Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
5. **Indicators for assessing** abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities or performance of student learning outcomes accompanied by evidence.
6. **Assessment Criteria** are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
7. **Forms of assessment:** test and non-test.
8. **Forms of learning:** Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
9. **Learning Methods:** Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
10. **Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
11. **The assessment weight** is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
12. TM=Face to face, PT=Structured assignments, BM=Independent study.