## Appendix 1.3.1c. AQU Course Road Map

## MAPPING OF COURSE IN AQUACULTURE STUDY PROGRAMME

| 4                    | PLO   |        | 4                   |                     |            |                           |                                   |                           |         |                                 |                       |                           |   |              |                                |                             |   |                        |                         | Study Program Core Subjects based on I |              |                        |                      |                                    |                             |                        |                              |                                   |                             |                          | Field of Science            |  |                               |  |                        |                                    |                                  |                   |  |  |         |                 |
|----------------------|-------|--------|---------------------|---------------------|------------|---------------------------|-----------------------------------|---------------------------|---------|---------------------------------|-----------------------|---------------------------|---|--------------|--------------------------------|-----------------------------|---|------------------------|-------------------------|--|--------------|------------------------|----------------------|------------------------------------|-----------------------------|------------------------|------------------------------|-----------------------------------|-----------------------------|--------------------------|-----------------------------|--|-------------------------------|--|------------------------|------------------------------------|----------------------------------|-------------------|--|--|---------|-----------------|
| Area                 |       |        |                     | General Course      |            |                           |                                   |                           |         | Basic Principles of Aquaculture |                       |                           |   |              |                                |                             |   | Aquaculture Management |                         |  |              |                        |                      |                                    |                             |                        |                              | Cultivation<br>System             |                             |                          | Socio-Economic<br>Fisheries |  |                               |  | /EI                    | Enrichment<br>/Elective<br>Courses |                                  | Final assignment  |  |  |         |                 |
|                      |       | Course | Religious education | Pancasila education | Indonesian | Indonesia civic education | Archipelagic dry land cultivation | Anti-corruption education | English | Ichthyology                     | Principles of fishery | Principles of aquaculture | Principles of processing fishery products | Oceanography | Physiology of aquatic organism | Water chemistry and physics | Principles of aquaculture biotechnology | Mathematics            | Aquaculture engineering | Fish nutrition                         | Biochemistry | Feeding technology and | Natural feed culture | Principles of aquatic microbiology | Parasites and fish diseases | Fish health management | Fish reproductive physiology | Management of hatchery production | Principles of fish genetics | Water quality management | Aquatic ecology             | Fresh, brackish, and marine aquaculture management | Ornamental fish and aquascape | Invertebrate animal cultivation technology | Fishery socio-economic | Aquaculture industry               | Aquaculture data and information | Scientific method | Learning inside/outside the Study<br>Program at Undana | Learning outside the Study<br>Program Outside Undana | Seminar | Bachelor Thesis |
|                      |       | Credit | 2                   | 2                   | 2          | 2                         | 2                                 | 1                         | 2       | 3                               | 3                     | 3                         | 3   | 3            | 3                              | 3                           | 3                                       | 3                      | 3                       | 3                                      | 3            | 3                      | 3                    | 3                                  | 3                           | 3                      | 3                            | 3                                 | 3                           | 3                        | 3                           | 3  | 3                             | 3  | 3                      | 3                                  | 3                                | 3                 | 20   | 20   | 1       | 6               |
|                      |       | ECTS   | 3.2                 | 3.2                 | 3.2        | 3.2                       | 3.2                               | 1.6                       | 3.2     | 4.8                             | 4.8                   | 4.8                       | 4.8                                       | 4.8          | 4.8                            | 4.8                         | 4.8                                     | 4.8                    | 4.8                     | 4.8                                    | 4.8          | 4.8                    | 4.8                  | 4.8                                | 4.8                         | 4.8                    | 4.8                          | 4.8                               | 4.8                         | 4.8                      | 4.8                         | 4.8  | 4.8                           | 4.8  | 4.8                    | 4.8                                | 4.8                              | 3 4.8             | 3 32   | 32   | 1.6     | 13.8            |
|                      |       | Sem.   | 2                   | 1                   | 1          | 2                         | 2                                 | 4                         | 1       | 3                               | 2                     | 1                         | 1   | 2            | 3                              | 1                           | 5                                       | 1                      | 4                       | 4                                      | 3            | 5                      | 4                    | 1                                  | 2                           | 3                      | 4                            | 5                                 | 1                           | 3                        | 3                           | 4  | 4                             | 5  | 2                      | 5                                  | 3                                | 4                 |  |  |         |                 |
|                      |       | Lev.   |                     |                     |            | 1                         |                                   |                           |         |                                 |                       |                           |   |              |                                |                             |   |                        |                         |  |              |                        |                      |                                    |                             |                        |                              |                                   |                             |                          |                             |  |                               |  |                        |                                    |                                  |                   |  |  | Ī       |                 |
| Attitude             | PLO-1 |        |                     |                     |            |                           |                                   |                           |         |                                 |                       |                           |   |              |                                |                             |   |                        |                         |  |              |                        |                      |                                    |                             |                        |                              |                                   |                             |                          |                             |  |                               |  |                        |                                    |                                  |                   |  |  |         |                 |
| Knowledge            | PLO-2 |        |                     |                     | •          | 118                       |                                   |                           |         |                                 |                       |                           |   |              |                                |                             |   |                        |                         |  |              |                        |                      |                                    |                             |                        |                              |                                   |                             |                          |                             |  |                               |  |                        |                                    |                                  |                   |  |  |         |                 |
| General<br>Skills    | PLO-3 |        |                     |                     |            |                           |                                   |                           |         |                                 |                       |                           |   |              |                                |                             |   |                        |                         |  |              |                        |                      |                                    |                             |                        |                              |                                   |                             |                          |                             |  |                               |  |                        |                                    |                                  |                   |  |  |         |                 |
| Competency           | PLO-4 |        |                     |                     |            |                           |                                   |                           |         |                                 |                       |                           |   |              |                                | ,                           | 35 - 3                                  |                        |                         |  |              |                        |                      |                                    |                             |                        |                              |                                   |                             | - 10                     |                             |  |                               |  |                        |                                    |                                  | Ļ                 | 1  |  |         |                 |
| Specific             | PLO-5 |        |                     |                     |            | 91 1                      |                                   |                           |         |                                 |                       |                           |   |              |                                |                             |   |                        |                         |  |              |                        |                      |                                    |                             |                        |                              |                                   |                             |                          |                             |  |                               |  |                        |                                    | -                                | $\perp$           |  |  | _       |                 |
| Skills<br>Competency | PLO-6 |        |                     |                     |            |                           |                                   |                           |         |                                 |                       |                           |   |              |                                |                             |   |                        |                         |  |              |                        |                      |                                    |                             |                        |                              |                                   |                             |                          |                             |  |                               |  |                        |                                    |                                  | $\perp$           |  |  |         |                 |
| Competency           | PLO-7 |        |                     |                     |            |                           |                                   |                           |         |                                 |                       |                           |   |              |                                |                             |   |                        |                         |  |              |                        |                      |                                    |                             |                        |                              |                                   | 2                           |                          |                             |  |                               |  |                        |                                    |                                  |                   |  |  |         |                 |