

| | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------|----------------------------|
| Content | <p>The course contents are :</p> <ol style="list-style-type: none"> 1. Introduction (Veterinary pharmacology scope, source of medicine, drug name) 2. Drug delivery pathway 3. Transport system, medicinal properties 4. Absorbsy, Distribution of the drug 5. Metabolism and excretion (elimination) of drug 6. Mechanism action of the drug 7. Receptor theory of the drug 8. Drug antagonism and drug interactions 9. Central nervous neurotransmitters 10. Perifer nervous neurotransmitters I 11. Perifer nervous neurotransmitters II 12. Pharmacogenetic/Pharmacogenomic 13. feed additives, supplement, enzyme 14. Natural drug 15. Kapita selecta | | | |
| Study/ exam achievement | Assessment aspect | Assessment element | Point | Course outcome (CO) |
| | Cognitive | Midterm Exam (UTS) Final Exam (UAS) | 85 | CO1, CO2 |
| | Psychomotor and Affective | Focus Group Discussion (FGD) | 15 | CO3 |
| <p>Students are considered to be competent and pass if comply the 75% of lectures attendance and FGD requirements as stated in department and academic rules.</p> <p>Total score : Midterm Exam + Final Exam ----- 2</p> <p>Final score : 85% (Total score) + 15% (FGD score)</p> <p>Final index :</p> <ol style="list-style-type: none"> 1. A equal to 4.0 (four point zero) 2. A- equal to 3.75 (three point seven five) 3. A/B equal to 3.5 (three point five) 4. B+ equal to 3.25 (three point two and five) 5. B equal to 3.0 (three point zero) 6. B- equal to 2.75 (two point seven five) 7. B/C equal to 2.5 (two point five) 8. C+ equal to 2.25 (two point two and five) 9. C equal to 2.0 (two point zero) 10. C- equal to 1.75 (one point seven five) 11. C/D equal to 1.5 (one point five) | | | | |

| | |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>12. D+ equal to 1.25 (one point two five)</p> <p>13. D equal to 1.0 (one point zero)</p> <p>14. E equal to 0 (zero)</p> <p>(absolute score)</p> <p>NB= if absolute score cannot be applied, the calculation with relative score will be conducted.</p> |
| Forms of Media | LCD projectors, screen, TV, computer, whiteboards, tower of science UGM, knowledge channel UGM, Elok, Elisa |
| Literature | <p>1. H. Richard Adam (editor). (2001). <i>Veterinary Pharmacology and Therapeutic 8th ed.</i> Blackwell Publishing. Iowa State University.</p> <p>2. Dawn Meron Boothe (editor). (2001). <i>Small Animal Clinical Pharmacology and Therapeutic.</i> WB Saunders Company. Philadelphia, Pennsylvania.</p> <p>3. Brander, Pugh, Bywater, Jenkins. (1991). <i>Veterinary Applied Pharmacology and Therapeutics.</i> ELBS. Bailliere Tindall.</p> |
| Notes | Any others journals and scientific articles relevant to contents as structural activities. |

B. Mapping PLO to CO

| PLO | CO1 | CO 2 | CO 3 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|
| <p>PLO 4</p> <p>Having skills in handling some diseases in large animals, small animals, poultry, exotic animals, wildlife, aquatic animals and laboratory animals;</p> | √ | √ | |
| <p>PLO 7</p> <p>Having skills in control and prevention management of strategic and zoonotic diseases, biosecurity-biosafety, also environment control;</p> | √ | √ | |
| <p>PLO 11</p> <p>Able to do innovation in the field of medical veterinary aligned with improvement of biotechnology and genetic engineering</p> | √ | √ | |
| <p>PLO 14</p> <p>Well-communicate, able to cooperate in team;</p> | | | √ |