



## COURSE DESCRIPTION

|                                                                                                                                                         |  |                                                        |                                                                |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|----------------------------------------------------------------|---------------|
| <b>ACADEMIC CENTER</b><br><b>SCHOOL OF MEDICAL SCIENCES</b>                                                                                             |  | <b>DEPARTMENT</b><br><b>GENERAL SURGERY DEPARTMENT</b> |                                                                |               |
| <b>COURSE NAME</b><br><b>EXPERIMENTAL SURGICAL METHODS AND MODELS</b>                                                                                   |  | <input type="checkbox"/> CORE COURSE                   | HOURS 45                                                       | CREDITS<br>3  |
|                                                                                                                                                         |  | <input checked="" type="checkbox"/> OPTIONAL COURSE    |                                                                |               |
| <b>PROGRAM / PROJECT NAME</b><br><b>PHYSIOPATHOLOGY AND SURGICAL SCIENCES</b><br><u>Key Focus Area:</u><br>Operative Technique and Experimental Surgery |  | <b>DISTRIBUTION OF HOURS</b>                           |                                                                |               |
|                                                                                                                                                         |  | TYPE OF CLASS                                          | HOURS                                                          | N. OF CREDITS |
|                                                                                                                                                         |  | THEORETICAL                                            | 30                                                             | 2             |
|                                                                                                                                                         |  | PRACTICAL                                              | 15                                                             | 1             |
|                                                                                                                                                         |  | TOTAL                                                  | 45                                                             | 3             |
| <b>PREREQUISITES</b>                                                                                                                                    |  |                                                        | <input checked="" type="checkbox"/> Master's program course    |               |
|                                                                                                                                                         |  |                                                        | <input checked="" type="checkbox"/> Doctorate's program course |               |

### COURSE DESCRIPTION

Research in Surgery; Experimental Surgery Laboratory; Care of animals in a vivarium; Ethics in animal research; Experimental plan in Surgery; Choice of animal model; Asepsis and antisepsis; aseptic surgical technique; Fundamental operative techniques; Suture materials; basic sutures; Basic experimental surgical models; Experimental models of organ and cell transplantation; Biodistribution models in Experimental Surgery; Limitations on animal research.

### BASIC BIBLIOGRAPHY

1. Cramer DV, Podesta LG, Makowka L. Handbook of Animal Models in Transplantation Research. Boca Raton (FL): CRC Press; 1994.
2. Green MK, Mandel TE. Experimental Transplantation Models in Small Animals. Austrália: Harwood Academic Publishers; 1995.
3. Marques RG. Cirurgia – Instrumental e Fundamentos Técnicos. Rio de Janeiro: Cultura Médica; 2001.
4. Marques RG. Técnica Operatória e Cirurgia Experimental. Rio de Janeiro: Guanabara Koogan; 2005.
5. Petroianu A. Anatomia Cirúrgica. Rio de Janeiro: Revinter; 1999.
6. Petroianu A. Ética, Moral e Deontologia Médicas. Rio de Janeiro: Guanabara Koogan; 2000.
7. Souba WW, Wilmore DW. Surgical Research. San Diego: Academic Press; 2001.

### PROGRAM / PROJECT COORDINATOR

|                                                                         |                                                                         |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| DATE                                                                    | SIGNATURE                                                               |
| <div style="border: 1px solid black; width: 100%; height: 100%;"></div> | <div style="border: 1px solid black; width: 100%; height: 100%;"></div> |