



# RAGHU COLLEGE OF PHARMACY

(Approved by A.I.C.T.E. PCI New Delhi & Affiliated to Andhra University, Visakhapatnam)

Dakamarri, Bheemunipatnam (Mandalam), Visakhapatnam - 531 162.

**COURSE PLAN-** One copy to be submitted to the HOD one week before commencement of the Semester

| Subject Code | Name of the Subject   | Class/ Semester | Name of the Faculty/ Designation | No. of Students | Total periods per Semester / Year |           |
|--------------|-----------------------|-----------------|----------------------------------|-----------------|-----------------------------------|-----------|
|              |                       |                 |                                  |                 | Lectures                          | Tutorials |
| BP402T       | Medicinal chemistry-I | II/II<br>Sec-A  | B.Sandhya rani/<br>K. Kalyani    | 53              | 70                                | 15        |

| Week No. | Lecture No. | Topic                                          | gadgets used, if any (LCD/OHP/ Charts/Models) | Date on which completed* |
|----------|-------------|------------------------------------------------|-----------------------------------------------|--------------------------|
| 01       | L1          | Introduction to medicinal chemistry            | Chalk & Board                                 | 26-06-2023               |
|          | L2          | History and development of medicinal chemistry | Chalk & Board                                 | 28-06-2023               |
|          | L3          | Ionization                                     | Chalk & Board                                 | 29-06-2023               |
|          | L4          | Solubility                                     | Chalk & Board                                 | 30-06-2023               |
|          | T01         | Tutorials                                      | Hand outs                                     | 01-07-2023               |
| 02       | L5          | Partition coefficient                          | Chalk & Board                                 | 03-07-2023               |
|          | L6          | Hydrogen bonding, protein binding              | Chalk & Board                                 | 05-07-2023               |
|          | L7          | Chelation, Bioisosterism                       | Chalk & Board                                 | 06-07-2023               |
|          | L8          | Optical and geometrical isomerism              | Chalk & Board                                 | 07-07-2023               |
|          | T02         | Tutorials                                      | Hand outs                                     | 10-07-2023               |
| 03       | L9          | Drug metabolism                                | Chalk & Board                                 | 12-07-2023               |
|          | L10         | Drug metabolism                                | Chalk & Board                                 | 13-07-2023               |
|          | L11         | Drug metabolism                                | Chalk & Board                                 | 14-07-2023               |
|          | L12         | Factors affecting Drug metabolism              | Chalk & Board                                 | 15-07-2023               |
|          | T03         | Tutorials                                      | Hand outs                                     | 17-07-2023               |
| 04       | L13         | Autonomic nervous system                       | Chalk & Board                                 | 19-07-2023               |
|          | L14         | Adrenergic neurotransmitter                    | Chalk & Board                                 | 20-07-2023               |
|          | L15         | Alpha and beta receptors                       | Chalk & Board                                 | 21-07-2023               |
|          | L16         | Sar of sympathomimetic agents                  | Chalk & Board                                 | 22-07-2023               |
| 05       | L17         | Direct acting norepinephrine                   | Chalk & Board                                 | 24-07-2023               |

|    |     |                                    |               |            |
|----|-----|------------------------------------|---------------|------------|
| 06 | L18 | Direct acting drugs                | Chalk & Board | 26-07-2023 |
|    | L19 | Direct acting drugs                | Chalk & Board | 27-07-2023 |
|    | L20 | Indirect acting drugs              | Chalk & Board | 28-07-2023 |
|    | L21 | Indirect acting drugs              | Chalk & Board | 31-07-2023 |
|    | L22 | Agents with mixed action           | Chalk & Board | 02-08-2023 |
| 07 | T04 | Tutorials                          | Hand outs     | 03-08-2023 |
|    | L23 | Adrenergic antagonists             | Chalk & Board | 04-08-2023 |
|    | L24 | Alpha blockers                     | Chalk & Board | 05-08-2023 |
|    | L25 | Alpha blockers                     | Chalk & Board | 07-08-2023 |
|    | L26 | Beta blockers                      | Chalk & Board | 09-08-2023 |
| 08 | T05 | Tutorials                          | Hand outs     | 10-08-2023 |
|    | L27 | Beta blockers                      | Chalk & Board | 11-08-2023 |
|    | L28 | Cholinergic nervous system         | Chalk & Board | 12-08-2023 |
|    | L29 | Cholinergic neurotransmitters      | Chalk & Board | 14-08-2023 |
|    | L30 | Muscarinic and nicotinic receptors | Chalk & Board | 16-08-2023 |
| 09 | T06 | Tutorials                          | Hand outs     | 17-08-2023 |
|    | L31 | Sar of parasympathomimetic drugs   | Chalk & Board | 18-08-2023 |
|    | L32 | Direct and indirect acting drugs   | Chalk & Board | 19-08-2023 |
|    | L33 | Cholinergic antagonists            | Chalk & Board | 21-08-2023 |
|    | L34 | Benzodiazepines                    | Chalk & Board | 23-08-2023 |
| 10 | T07 | Tutorials                          | Hand outs     | 24-08-2023 |
|    | L35 | Benzodiazepines                    | Chalk & Board | 25-08-2023 |
|    | L36 | Barbiturates                       | Chalk & Board | 26-08-2023 |
|    | L37 | Barbiturates                       | Chalk & Board | 28-08-2023 |
|    | L38 | Barbiturates                       | Chalk & Board | 30-08-2023 |
| 11 | T08 | Tutorials                          | Hand outs     | 31-08-2023 |
|    | L39 | Antipsychotics                     | Chalk & Board | 01-09-2023 |
|    | L40 | Antipsychotics                     | Chalk & Board | 02-09-2023 |
|    | L41 | Antipsychotics                     | Chalk & Board | 04-09-2023 |
|    | L42 | Antipsychotics                     | Chalk & Board | 06-09-2023 |
| 10 | L43 | Anticonvulsants                    | Chalk & Board | 08-09-2023 |
|    | L44 | Anticonvulsants                    | Chalk & Board | 11-09-2023 |
|    | L45 | Anticonvulsants                    | Chalk & Board | 13-09-2023 |
|    | L46 | Anticonvulsants                    | Chalk & Board | 14-09-2023 |
|    | T09 | Tutorials                          | Hand outs     | 15-09-2023 |
| 11 | L47 | General anaesthetics               | Chalk & Board | 16-09-2023 |
|    | L48 | General anaesthetics               | Chalk & Board | 18-09-2023 |
|    | L49 | General anaesthetics               | Chalk & Board | 20-09-2023 |
|    | T10 | Tutorials                          | Hand outs     | 21-09-2023 |
| 12 | L50 | General anaesthetics               | Chalk & Board | 22-09-2023 |
|    | L51 | General anaesthetics               | Chalk & Board | 23-09-2023 |
|    | L52 | Narcotic analgesics                | Chalk & Board | 25-09-2023 |
|    | L53 | Narcotic analgesics                | Chalk & Board | 27-09-2023 |
|    | T11 | Tutorials                          | Hand outs     | 28-09-2023 |
| 13 | L54 | Narcotic analgesics                | Chalk & Board | 29-09-2023 |
|    | L55 | Narcotic analgesics                | Chalk & Board | 30-09-2023 |
|    | L56 | Narcotic analgesics                | Chalk & Board | 04-10-2023 |
|    | L57 | Narcotic analgesics                | Chalk & Board | 05-10-2023 |
|    | T12 | Tutorials                          | Hand outs     | 06-10-2023 |



|    |     |                                   |               |            |
|----|-----|-----------------------------------|---------------|------------|
| 14 | L58 | Narcotic analgesics               | Chalk & Board | 07-10-2023 |
|    | L59 | Narcotic analgesics               | Chalk & Board | 09-10-2023 |
|    | L60 | Narcotic analgesics               | Chalk & Board | 11-10-2023 |
|    | L61 | Narcotic analgesics               | Chalk & Board | 12-10-2023 |
|    | T13 | Tutorials                         | Hand outs     | 13-10-2023 |
| 15 | L62 | NSAIDS                            | Chalk & Board | 16-10-2023 |
|    | L63 | NSAIDS                            | Chalk & Board | 18-10-2023 |
|    | L64 | NSAIDS                            | Chalk & Board | 19-10-2023 |
|    | L65 | NSAIDS                            | Chalk & Board | 20-10-2023 |
|    | T14 | Tutorials                         | Hand outs     | 21-10-2023 |
|    | L66 | NSAIDS                            | Chalk & Board | 23-10-2023 |
| 16 | L67 | NSAIDS                            | Chalk & Board | 25-10-2023 |
|    | L68 | NSAIDS                            | Chalk & Board | 26-10-2023 |
|    | L69 | NSAIDS                            | Chalk & Board | 27-10-2023 |
|    | T15 | Tutorials                         | Hand outs     | 28-10-2023 |
|    | L70 | Discussion of important questions | Chalk & Board | 30-10-2023 |

13 - 11-2023  
Signature of the Faculty Member

Date: 28/7/23

Signature of the Principal

Date: