Course work for first six month duration in Ph. D. Programme - SRPT

1. Recent - Advances in Gynecology & Obstetrics.

Obstetrics -

- 1) Update on antenatal care.
- 2) Effect of Vaginal microbiome on pregnancy outcome.
- 3) Management of FGR (Fetal Growth Restriction)
- 4) Screening of preeclampsia.
- 5) Noninvasive prenatal testing.
- 6) Vaccination during pregnancy.

Gynecology: -

- 1) Intra ovarian paracrine and autocrine regulators.
- 2) Understanding of markers capable of predicting wellbeing of follicle in the ovary.
- 3) Investigation of Biophysics of sperm-egg cortical granules fusion.
- 4) Understanding of Contraceptive rings.

Oncology: -

- 1) Sentinel Lymph Node Biopsy (SLNB) in cervical cancer.
- 2) Immunotherapy, HPV vaccines.
- 3) Breast to mosynthesis 3D Mammography.
- 4) Knowledge of human epidermal growth factor receptor 2 (HER2)
- 5) TNM Staging System of Breast Cancer. (Tumor Node Metastases TNM)

2. Subject - Specific Research Methodology.

- 1) Use of methodologic standards of confidence intervals, sample size and power calculations.
- 2) Quantitative research, Qualitative Research.
- 3) Triangulation of research findings (Meaning = Qualitative + Quantitative) using qualitative research to define the meaning of quantitative research.
- 4) Phenomenology, Grounded theory, Action Research.

3. Subject - Specific Research Issues.

 Research Areas - Adolescent Gynaecology, Genitourinary infections, Puerperal sepsis, Abortion care, Cervical Cancer.

4. Research Related Equipment's, Scales

- 1. OTAS Obstetric Triage Acuity Scale.
- 2. MEOWs chart Modified Early Obstetric Warning System Chart.
- 3. BSS RI The Birth Satisfaction Scale Revised Indicator.
- 4. WALIDD Score in Dysmenorrhea.
- 5. 5-D Itch Scale in Pruritus.
- 6. MMAS Menorrhagia Multi- Attribute Scale.
- 7. MRS Menopause Rating Scale.
- 8. Greene climacteric Scale menopause.
- 9. Hysteroscopy.
- 10. Colposcope.

5. Broader Area of Research in obstetrics & Gynaecology

- 1. Optimal intervals of cervical cytological screening.
- 2. Psychosocial needs of HIV Positive women and their family system.
- 3. Behavioral risk factors for transmission or progressions of an STD.
- 4. Molecular studies to identify high risk and low risk women for breast cancer.
- 5. Appropriate drug delivery system.
- 6. Influence of maternal diet, environmental factors and disease status on maturational events of fetus in relation to Garbhini Paricharya.
- 7. Preconception care and biophysics
- 8. Ritumaticharya in today's era.
- 9. Development of specific markers in obstetrics and Gynaecology.
- 10. Sutika Awastha and lipid Metabolism.