

Indira Gandhi Delhi Technical University For Women

Department of Electronics and Communication Engineering

MICROWAVE & RADAR ENGINEERING LABORATORY



FACULTY INCHARGE	Dr. Richa Yadav
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FACILITIES (HARDWARE)

S.NO.	EQUIPMENT	QUANTITY
1	Klystron Based Bench X-Band with DSO	06
2	Microwave Integrated Circuit Trainer with DSO	01
3	Radar Trainer with DSO	01
4	Antenna radiation Pattern with Microstrip	01



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SEMESTER-VII (B.TECH) - ECE

SUBJECT CODE: BEC-401

Room No.- E-315

LIST OF EXPERIMENTS

- 1. To study of various Microwave waveguides and Bench.
- 2. To study of measurement of frequency using tunable probe & detector mount using DSO/ VSWR meter.
- 3. To study of frequency and wavelength measurement in TE 10 mode.
- 4. To study of Standing wave pattern of:
 - (a) Open circuit
 - (b) Short Circuit
 - (c) Match termination
- 5. To study of an Isolator, its insertion loss and isolation.
- 6.To study of an Attenuator, its insertion loss and measurement of attenuation.
- 7.To study the characteristics of the Reflex Klystron Tube and determine its tuning range.
- 8.To study the function of the Multihole Directional coupler by measuring the following parameters:
 - (a) Insertion Loss
 - (b) Coupling Factor



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DO'S AND DON'TS

DO'S **DON'TS** • Enter and leave the lab as per the • Do not leave the lab without time table. prior permission of the Lab Indiscipline • Maintain strict charge or Technical Assistant. silence in the lab. • Do not bring or eat any eatable Proper handling of computer item in the lab. systems must be done. • Do not make noise or shout in the • Check the connections properly as lab. circuit diagram before • Do not disturb the decorum or per switching on the power supply. aesthetic view of the lab. observer keen • Be while • Do not tamper with the lab or performing experiments in the lab. system settings. Keep your bags in the rack and the • Do not perform the experiment consumable items back to their with wet hands on the apparatus. original position after finishing off the experiment in the lab.