



A.V.C. COLLEGE OF ENGINEERING

[Affiliated to Anna University, Chennai| Approved by AICTE, New Delhi]
 [Re-Accredited by NAAC with 'B++' grade(2ndCycle) || AnISO 9001:2015 Certified Institution]
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Department of Electronics and Communication Engineering MODERNISATION & REMOVAL OF OBSOLESCENCE (MODROBS)

Title of the Proposal : Software Defined Platform in Design and Teaching of Rf Radio Communication Systems

Name of the Laboratory :Communication System Laboratory

S. No	Name of the Equipment's	Specifications	No of units
1.	Wicomm-t Wireless digital communication Trainer	<ol style="list-style-type: none"> 1. Software-defined radio platform 2. Typical implementation of modern communication systems 3. Baseband with pluggable 70 MHz IF or 2.4 GHz RF module 4. Loop-back option at baseband and IF levels 5. Experiment topics covering the basics of CDMA, GSM, and OFDM 6. Flexibility to do projects: arbitrary modulation schemes, channel coder/decoder 	2 sets
2.	Commlab-t Communication lab training system	<ol style="list-style-type: none"> 1. Software-defined radio platform 2. Typical implementation of analog communication systems 3. Baseband with pluggable 70 MHz IF or 2.4 GHz RF module 4. Loop-back option at baseband and IF levels 	2 sets
3.	MATLAB software up gradation	<ul style="list-style-type: none"> • Latest Version 	5 users (Licenses)
4.	Personal Computer	<ul style="list-style-type: none"> • Intel Core i5 (8th Gen) • HDD Capacity - 1 TB • RAM 8 GB DDR 4 (Expandable) • 18.5 inch LED Monitor • USB Mouse / Keyboard 	10
5.	Digital Storage oscilloscope	<ul style="list-style-type: none"> • Signal Bandwidth : 100 MHz • Real time sampling:Max 1 GSa/s • Equivalent sampling rate: Max 50 GSa/s • 7.0" TFT LCD Color display • 2 Mpts memory depth 	5