| **FACULTY PROFILE FORMAT (Format 3)** | | |
| --- | --- | --- |
| **Staff Name** | : | Dr.K.Ramachandra Reddy |
| **Faculty ID** | : | TEC33 |
| **Designation** | : | Assistant Professor |
| **Qualification** | : | M.E, Ph.D |
| **Teaching Experience** | : | 15 years and 4 months |
| **Area of Specialization** | : | Optical Signal Processing  Optical Networks |
| **Subjects Handled** | : | Signals and Systems  Circuit Analysis  Digital Signal Processing  Digital Electronics  Digital System Design  Digital Principles and system Design  Digital Logic Circuits  Communication Engineering  Electron Devices and Circuits  Electronic Circuits |
| **Books Published** | : | - |
| **Journals Published** | : | 1."Performance analysis of coherent free‐space optics transmission link using in‐phase quadrature modulator‐based polarization multiplexed‐256‐quadrature amplitude modulation". Transactions on Emerging Telecommunications Technologies, 2021-09.  DOI: 10.1002/ett.4262  2. "Performance study of randomly coupled erbium-doped fiber amplifier using machine learning".  Optical Engineering, 2021-07-07.  DOI: 10.1117/1.oe.60.7.076101  3. "Green channel DWDM design using  optimized CFBG" OPTOELECTRONICS AND ADVANCED  MATERIALS-RAPID COMMUNICATIONS, May-jun 2022. |
| **Conference /Workshop Attended** | : | 1.One day workshop on ORCAD-PSPICE at B.S.Abdur Rahman University in July 2015.  2.Three-day Pedagogy Workshop on Building an Online Signals and Systems Course Part I’ 28 th NOV to 30th NOV conducted by IIT Bombay.  3.Two day workshop "CYBER SECURITY" organised by School of Information Technology, JNTUH under TEQIP - III on 29th & 30th January, 2021.  4.Two day workshop on Advances in Optical Communication organised by IIT  Madras under the aegis of the Department of Telecommunications from July 22nd–23rd, 2023. |
| **Patent Details** | : | 1. “CHRONO-SEMANTIC WEAVING A SYSTEM FOR DYNAMIC NARRATIVE GENERATION WITH SELF-ADJUSTING TIMELINES” 2. “IDENTIFYING THE LANGUAGE PRESENT IN TEXT OR IMAGE USING VISUAL FEATURES TRAINING MODEL” |
| **Funded Project Details** |  | - |