


FACULTY PROFILE FORMAT (Format 3)

Staff Name	:	Dr.K.Ramachandra Reddy
Image	:	
Faculty ID	:	TEC33 / 3123106
Designation	:	Assistant Professor
Qualification	:	M.E, Ph.D
Email id	:	ramachandrareddyk@stjosephs.ac.in
Teaching Experience	:	16 years and 4 months
VIDWAN ID	:	433817
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Web of Science Researcher ID	:	ABA-1243-2021
Google Scholar ID	:	https://scholar.google.com/citations?user=Yd9zZLQAAAAJ&hl=en&authuser=1
Linkedin ID	:	https://www.linkedin.com/in/dr-konda-ramachandra-reddy-a614b3a7/
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," <i>Trans. Emerg.</i>

		<p><i>Telecommun. Technol.</i>, vol. 32, no. 9, Sep. 2021, doi: 10.1002/ett.4262.</p> <ol style="list-style-type: none"> 2. “Performance study of randomly coupled erbium-doped fiber amplifier using machine learning,” <i>Opt. Eng.</i>, vol. 60,no.7,p.076101,Jul.2021,doi:10.1117/1.oe.60.7.076101 . 3. “Green channel DWDM design using optimized CFBG,” <i>Optoelectron. Adv. Mater. Rapid Commun.</i>, pp. 200-208, May–Jun. 2022. 4. “Enhancing earth target classification in hyperspectral imagery using graph convolutional neural networks and graph-regularized sparse coding,” <i>Remote Sens. Appl. Soc. Environ.</i>, vol. 37, p. 101419, Jan. 2025, doi: 10.1016/j.rsase.2024.101419.
Conference /Workshop Attended	:	<ol style="list-style-type: none"> 1. 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. 2. Two day workshop "CYBER SECURITY" organised by School of Information Technology, JNTUH under TEQIP - III on 29th & 30th January, 2021. 3. Three-day Pedagogy Workshop on Building an Online Signals and Systems Course Part I’ 28 th NOV to 30th NOV 2020 conducted by IIT Bombay. 4. Workshop on Modeling and Simulation of Next Generation Optical Communication and Networks on December 01-02, 2017 Conducted by SRM University. 5. One day workshop on ORCAD-PSPICE at B.S.Abdur Rahman University in July 2015.
Patent Details	:	<ol style="list-style-type: none"> 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” 3. “Smart mirror system with personalized health monitoring and recommendations”

FDP Attended	<ol style="list-style-type: none"> 1. NPTEL-AICTE Online 12 week FDP on “Real-Time Digital Signal Processing” From July 2024 to Oct 2024 at IISC Bangalore. 2. Attended AICTE Training And Learning (ATAL) Academy FDP on “Advanced Materials, Rare-Earth and Critical Minerals” at PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE from 05/08/2024 to 10/08/2024. 3. NPTEL-AICTE Online 12 week FDP on “Signal Processing Techniques and Its Applications” From Jan 2022 to Apr 2022 at IIT Kharagpur. 4. Attended AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Photonics and its application" from 14/02/2022 to 18/02/2022 at Sardar Vallabhbhai National Institute of Technology. 5. Attended AICTE Training And Learning (ATAL) Academy Online FDP on "Cyber Security" from 01/02/2021 to 05/02/2021 at Central University of Kerala. 6. Participated In The Two Day Workshop on“ CYBER SECURITY ” 29 th & 30 th January, 2021 (Under TEQIP – III) Jawaharlal Nehru Technological University Hyderabad. 7. Attended AICTE Training And Learning (ATAL) Academy Online FDP on "Ethics, Moral Values, Behavioral Science & Attitude" from 2020-10-12 to 2020-10-16 at College of Engineering, Trivandrum. 8. Attended Pedagogy Workshop on Building an Online Signals and Systems Course Part – I conducted from 27 to 30 November 2020. This is a joint initiative by TEQIP-III KITE, PPCCLT (IIT Bombay).This workshop is offered by IITBombayX an online learning initiative of Indian Institute of Technology Bombay. 9. Participated in the Online AICTE Recognized Faculty Development Programme on ECE Virtual Lab Practices using Free Simulators from 19/10/2020 to 23/10/2020 (one Week) Conducted by Electronics and Communication Engineering Department NITTTR, Chandigarh.
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	<p>10. NPTEL-AICTE Online 12 week FDP on “Control Engineering” From Sep2020 to Dec 2020 at IIT Madras.</p> <p>11. Attended online Faculty Development Program on “Internet of Things for Intelligent Systems” conducted by the Department of Computer Science and Engineering from 20-07-2020 to 24-07-2020 at NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL.</p> <p>12. Attended AICTE Training and Learning (ATAL) Academy Online FDP on "Cyber Security" from 28-05-2020 to 01-06-2020 at National Institute of Technical Teachers Training & Research, Chandigarh.</p> <p>13. Attended in the Online AICTE Recognized Faculty Development Programme on “Advances in Antenna Design Techniques and Simulations using CST Studio Suite” from 22/06/2020 to 26/06/2020 (One Week) Organized by Electronics and Communication Engineering Department NITTTR, Chandigarh.</p> <p>14. Attended one week Online AICTE Recognized Faculty Development Programme on “Technological Interventions using Wireless Communication” From 18/05/2020 to 22/05/2020 (One Week) Organized by Electronics and Communication Engineering Department NITTTR, Chandigarh.</p> <p>15. AICTE Training And Learning (ATAL) Academy FDP on "Artificial Intelligence" from 19-11-2019 to 23-11-2019 at NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL.</p>
NPTEL COURSES	<p>1. Attended NPTEL 12 week course From July 2024 to Oct 2024 on “Real-Time Digital Signal Processing” with Final score 69% (ELITE) organized by IISC Bangalore.</p> <p>2. Attended NPTEL 12 week course From July 2024 to Oct 2024 on “A Basic Course on Electric and Magnetic Circuits” with final score 73% (ELITE) organized by IIT Kharagpur.</p> <p>3. Attended NPTEL 12 week course From July 2023 to Oct 2023 on “Fundamentals Of Electrical Engineering”with final score 63% (ELITE) organized by IIT Kharagpur.</p>

	<ol style="list-style-type: none"> 4. Attended NPTEL 12 week course From July 2023 to Oct 2023 on “Basic Electrical Circuits” with final score 60% (ELITE) organized by IIT Hyderabad. 5. Attended NPTEL 12 week course From Jan 2023 to Apr 2023 on “Signals and Systems” with final score 92% (ELITE+GOLD+Topper) organized by IIT Mandi. 6. Attended NPTEL 12 week course From JAN 22- APR 22 on “Signal Processing Techniques And Its Applications” with final score 79% (ELITE+SILVER) organized by IIT Kharagpur. 7. Attended NPTEL 12 week course From JAN 22- APR 22 on “Digital Electronic Circuits” with final score 70% (ELITE) organized by IIT Kharagpur. 8. Attended NPTEL 12 week course From JUN 21- OCT 21 on “Switching Circuits and Logic Design” with final score 56% organized by IIT Kharagpur. 9. Attended NPTEL 12 week course From JAN 21- APR 21 on “Digital System Design” with final score 80 % (ELITE+SILVER) organized by IIT Madras. 10. Attended NPTEL 12 week course From JAN 21- APR 21 on “Digital Signal Processing and its Applications” with final score 80% (ELITE+SILVER) organized by IIT Bombay. 11. Attended NPTEL 12 week course From SEP 20- DEC 20 on “Control engineering” with final score 48% organized by IIT Madras. 12. Attended NPTEL 12 week course From JAN 2020- APR 2020 on “Network Analysis” with final score 73% (ELITE) organized by IIT Kharagpur. 13. Recognised as NPTEL DISCIPLINE STARS in Electrical Engineering DEC 2019. 14. Attended NPTEL 12 week course From JUL 2019- OCT 2019 on “Digital Signal Processing” with final score 62% (ELITE) organized by IIT Madras.
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	<p>15. Attended NPTEL 12 week course From JUL 2019- OCT 2019 on “Basic Electric Circuits” with final score 76% (ELITE+SILVER)organized by IIT Kanpur.</p> <p>16. Attended NPTEL 12 week course From JAN 2019- APR 2019 on “Principles of Signals and Systems” with final score 81% (ELITE+SILVER) organized by IIT Kanpur.</p> <p>17. Attended NPTEL 12 week course From JUL 2018- OCT 2018 on “Digital Circuits” with final score 85% (ELITE+SILVER) organized by IIT Kharagpur.</p> <p>18. Attended NPTEL 8 week course From AUG 2018- SEP 2018 on “Discrete Time Signal Processing” with final score 74% (ELITE) organized by IIT Kharagpur.</p>
AWARDS	<ol style="list-style-type: none"> 1. Recognised as NPTEL DISCIPLINE STARS in Electrical Engineering DEC 2024. 2. Recognised as NPTEL DISCIPLINE STARS in Electrical Engineering APR 2023. 3. Recognised as NPTEL DISCIPLINE STARS in Electrical Engineering DEC 2019.
Funded Project Details	-