

**Sri Sivasubramniya Nadar College of Engineering
Internship Titles 2024**

Project Code	Name of the Faculty Member	Designation	Email id	Department of the Faculty Member	Title of the Internship	Pre-requisites
BME01	Dr. M. Dhanalakshmi	Associate Professor	dhanalakshnim@ssn.edu.in	BME	Wearable devices	Knowledge in computer tools
BME02	Dr.S.Allwyn	Assistant Professor	allwyns@ssn.edu.in	BME	Biophotonics and Medical Devices	Students have a basic knowledge of biology, or biomedical engineering principles, a basic understanding of optics, proficiency in programming languages like MATLAB, Python, or C++, laboratory experience, strong mathematical and communication skills and enthusiasm towards a medical device development
BME03	Dr.K.Nirmala	Associate Professor	nirmalak@ssn.edu.in	BME	Medical Image Analysis-Computer Aided Diagnosis	Matlab tool
BME04	Dr Vijay Jeyakumar	Associate Professor	vijayj@ssn.edu.in	BME	Development of Splints using Fusion 360	Knowledge in Design Thinking & Fusion 360 tool
BME05	Dr Vijay Jeyakumar	Associate Professor	vijayj@ssn.edu.in	BME	Development of Medical Tuning fork	Basic knowledge in Electronics and Design Thinking
BME06	Dr.B.Geethanjali	Associate Professor	geethanjali@ssn.edu.in	BME	Biomedical data analytics	python / R for data analysis
BME07	Nithya R	Assistant Professor	nithyar@ssn.edu.in	BME	Design and development of Rehabilitation devices.	Nil
BME08	Dr.S.Allwyn	Assistant Professor	allwyns@ssn.edu.in	BME	DIAGNOSIS OF BILIARY ATRESIA BY SPECTROSCOPIC ANALYSIS OF STOOL AND URINE SAMPLE: A FEASIBILITY STUDY	Bright Students with Electronics and product design (Fusion 360 or solidworks) skill are necessary.
BME09	Dr L. Suganthi	Associate professor	Suganthil@ssn.edu.in	BME	Medical device design	Electronics and c coding
BME10	Dr. N. Venkateswaran	Professor	venkateswarann@ssn.edu.in	BME	Biomedical Signal processing / Sensor development	ECE, BME students

CE01	Dr V Jaikumar	Associate Professor	jaikumarv@ssn.edu.in	Chemical	Role of machine learning in optimization techniques	Machine learning
CE02	Dr V Jaikumar	Associate Professor	jaikumarv@ssn.edu.in	Chemical	Improving the production of bioethanol by optimizing the biomass characteristics and process parameters for predicting yields	Machine Learning
CE03	Dr.J. Dhanalakshmi	Associate Professor	dhanalakshmij@ssn.edu.in	Chemical	Nanoparticles for Enhanced CO2 Capture in Amine-Ionic Liquid Solution	Experience in synthesis of nanoparticles at laboratory level
CE04	Dr V Jaikumar	Associate Professor	jaikumarv@ssn.edu.in	Chemical	Life cycle assessment studies for biocrude production from Algal biomass using HTL.	Basics of Biofuel
CE05	Dr V Jaikumar	Associate Professor	jaikumarv@ssn.edu.in	Chemical	Exploring the Antidiabetic activity of the herbal formulation	Nil
CE06	Dr V Jaikumar	Associate Professor	jaikumarv@ssn.edu.in	Chemical	Invitro studies on antidiabetic activity of the Siddha drug	Nil
CE07	Dr V Jaikumar	Associate Professor	jaikumarv@ssn.edu.in	Chemical	Biochar yield enhancement using Machine learning Approach	Machine learning
CE08	Dr V Jaikumar	Associate Professor	jaikumarv@ssn.edu.in	Chemical	Biochar electrode for Microbial Fuel Cell.	MFC
CE09	Dr V Jaikumar	Associate Professor	jaikumarv@ssn.edu.in	Chemical	Electrochemical treatment of pharmaceutical wastewater	Electro chemistry basics
CE10	Dr. B. Chitra	Associate Professor	chitrab@ssn.edu.in	Chemical	Comparison of heat transfer rate in a jacketed vessel using conventional coolant and nanocoolant	Heat transfer
CE11	Dr. B. Chitra	Associate Professor	chitrab@ssn.edu.in	Chemical	Synthesis of nickel or cobalt oxide/carbon nanocomposite via in-situ hydrothermal carbonization and their electrocatalytic applications	Chemistry
CE12	Dr. B. Chitra	Associate Professor	chitrab@ssn.edu.in	Chemical	Solvothermal synthesis of silver/nitrogen doped zinc oxide nanoparticles for the photodegradation of azo dyes	Chemistry
CE13	Dr. B. Chitra	Associate Professor	chitrab@ssn.edu.in	Chemical	Solvent free synthesis of carbon encapsulated manganese doped cobalt oxide for hydrogen evolution reactions	Chemistry
CE14	Dr. B. Chitra	Associate Professor	chitrab@ssn.edu.in	Chemical	Enhancement of visible light induced hydrogen generation on tin oxide loaded palladium based bimetallic photocatalyst	Chemistry
CE15	Nalinkanth V. Ghone	Associate Professor	nalinkanthv@ssn.edu.in	Chemical	Understanding the Interactions of mesenchymal stem cells and breast cancer cells	Knowledge of Cell Biology and Molecular Biology is required

CE16	Nalinkanth V. Ghone	Associate Professor	nalinkanthv@ssn.edu.in	Chemical	Synthesis of Metal oxide-nanoclay composites	Basic knowledge on chemical process calculations and chemistry laboratory work experience Chemistry laboratory
CE17	Dr. Anup Kundu	Assistant Professor	anupk@ssn.edu.in	Chemical	Numerical Simulation and Mass Transfer Analysis of carbon di-oxide Bubble Rising Behavior in Amine Solution within a Milli-Channel Reactor	knowledge of Fluid dynamics and Mass transfer
CE18	Dr. D. Gnana Prakash	Associate Professor	gnanaprakashd@ssn.edu.in	Chemical	Process optimization of ultrasonic-assisted biodiesel production from waste cooking oil using heterogeneous catalyst	Basic chemistry, Understanding of Biodiesel, Basic Knowledge on the function of catalyst
CE19	K.Sathish Kumar	Professor	sathishkumark@ssn.edu.in	Chemical	Synthesis of metal nanoparticles for biodiesel production	1) know to handle and glasswares in lab
CHEM01	Murugesan	Assistant Professor	murugesana@ssn.edu.in	Chemistry	Conversion of plastic waste into valuable monomers and chemicals by chemical recycling process	This internship will be very useful to M. Sc students
CHEM02	Murugesan	Assistant Professor	murugesana@ssn.edu.in	Chemistry	Synthesis, characterization and Properties of high-performance polymers for wastewater treatment and material applications	This internship will be very useful to M. Sc students
CHEM03	Dr. V. Tamilmani	Assistant Professor	tamilmaniv@ssn.edu.in	Chemistry	Temperature sensors based on upconversion luminescence of rare earth doped nanocrystals	M.Sc/ M.Tech - Chemistry/Physics/ Nanoscience/Nanotechnology
CHEM04	S.I.Davis Presley	Associate Professor	davispresleysi@ssn.edu.in	Chemistry	Synthesis of useful tetralones	Basic knowledge of Organic chemistry
CHEM05	Tanusree Sengupta	Assistant Professor	tanusrees@ssn.edu.in	Chemistry	Probable Interaction of Protein Z Dependent Protease Inhibitor with Plasma Pre-kallikrein as Revealed by Phylogenetic Analyses	Basic understanding of proteins

CIVIL01	Dr.P.Sangeetha	Associate Professor	sangeethap@ssn.edu.in	Civil	Predict the behaviour of concrete using Image processing techniques ; Analytical behaviour of Cold-formed steel structures using FEA.	Concrete technology & steel structures
CIVIL02	Dr. Aswin sriram	Assistant Professor	aswinsriramg@ssn.edu.in	Civil	Treatment of Leather waste water through electrochemical process	Interested in Environmental engineering
CIVIL03	Dr.Sivapriya S.V	Associate Professor	sivapriyasv@ssn.edu.in	Civil	Stabilisation of dredged soil with agro-wastes	Dredged soil
CIVIL04	Dr.Surendar Natarajan	Assistant Professor	surendarn@ssn.edu.in	Civil	Flood risk Modeling Through Geospatial Techniques	Basic Knowledge in GIS Software.
CIVIL05	Dr.Surendar Natarajan	Assistant Professor	surendarn@ssn.edu.in	Civil	Groundwater Modeling	Basic knowledge in Q-GIS software
CIVIL06	Dr.P.Sangeetha	Associate Professor	sangeethap@ssn.edu.in	Civil	Forecasting the strength of fiber reinforced concrete employing sophisticated deep learning methodologies.	Design of RC elements
CIVIL07	Dr.P.Sangeetha	Associate Professor	sangeethap@ssn.edu.in	Civil	Assessing the durability of fiber reinforced concrete through Advanced deep learning Techniques.	Design of RC elements
CIVIL08	Dr. Srinath Rajagopalan	Associate Professor	srinathr@ssn.edu.in	Civil	Estimation of Infiltration rate through vadose zones using thermal sensors	Nil

CSE01	Nilu R Salim	Assistant Professor	nilurs@ssn.edu.in	CSE	Face Recognition in Challenging Environments	Basics of Machine Learning, Deep Learning, python libraries and packages
CSE02	Bhuvana J	Associate Professor	bhuvanaj@ssn.edu.in	CSE	Multi-Modal Gesture recognition	Working knowledge of Python is preferred
CSE03	Mirnalinee T T	Professor	mirnalineett@ssn.edu.in	CSE	Abnormal even detection from Video, Medicinal plant detection and localisation	python and offline
CSE04	Dr. B. Bharathi	Associate Professor	bharathib@ssn.edu.in	CSE	Automatic question generator and summarizer using NLP	Python
CSE05	Dr. B. Bharathi	Associate Professor	bharathib@ssn.edu.in	CSE	Detecting AI-Generated Text from Human-Written Content	Python
CSE06	Dr. B. Bharathi	Associate Professor	bharathib@ssn.edu.in	CSE	Multimodal Social Media Data Analysis in Tamil	Python
CSE07	P.Mirunalini	Associate Professor	miruna@ssn.edu.in	CSE	Semantic Segmentation for Road Scene Analysis	python, OpenCV, Keras
CSE08	Dr. S.Kavitha	Associate Professor	kavithas@ssn.edu.in	CSE	Analysis of EEG signals for emotion recognition	1. CSE, IT or ECE student with basic knowledge and interest on EEG Signlas, 2. Knowledge on python programming
CSE09	M Saritha	Assistant Professor	sarithamadhesh@ssn.edu.in	CSE	Multi-label Hate Speech Classification	Python Programming, Basics of Machine Learning Models
CSE10	Dr.S.Rajalakshmi	Assistant Professor	rajalakshmis@ssn.edu.in	CSE	Weather data analysis and recommendations using explainable AI	Python, machine learning
CSE11	Dr.S.Rajalakshmi	Assistant Professor	rajalakshmis@ssn.edu.in	CSE	Fake content detection in images and text	Python, Machine Learning

ECE01	Dr. K. J. Jegadish Kumar	Associate Professor	jegadishkj@ssn.edu.in	ECE	Lightweigh Cryptographic algorithms for IOT security applications	Verilog, VHDL, Matlab, Python Coding skills, Fundamentals of Linear algebra, Digital Design
ECE02	Dr.A. Jawahar	Professor	jawahara@ssn.edu.in	ECE	Water Quality Monitoring System	Knowledge on Wireless Sensor Networks, ESP82866, Rasberi Pi, Knowledge in Programming Language
ECE03	Dr.A. Jawahar	Professor	jawahara@ssn.edu.in	ECE	Forewarning of Goat diseases diagnosis using IoMT to improve the productivity and economy of small and big farming	Knowledge on Wireless Sensor Networks, ESP82866, Rasberi Pi, Knowledge in Programming Language
ECE04	Dr. C. Vinoth Kumar	Associate Professor	vinothkumarc@ssn.edu.in	ECE	Multi-stream fusion network for Image Enhancement Techniques	Matlab
ECE05	Dr. M. Anbuselvi	Associate Professor	anbuselvim@ssn.edu.in	ECE	Battery health prognostics for EV applications	Battery technology, machine learning, python programming
ECE06	Dr B Sakthi Abirami	Assistant Professor	sakthiabiramib@ssn.edu.in	ECE	Passive RFID tag design and development, Conformal antennas and sensors	Electromagnetics
ECE07	Dr. S. Aasha Nandhini	Assistant Professor	aashanandhinis@ssn.edu.in	ECE	Embedded Vision based Decision Support System for Smart Agriculture	Python Programming, Image Processing and Machine Learning
ECE08	Dr. S. Aasha Nandhini	Assistant Professor	aashanandhinis@ssn.edu.in	ECE	Edge computing for fall detection applications using AI	Computer vision and python programming
ECE09	Dr.S.Sakthivel Murugan	Associate Professor	sakthivels@ssn.edu.in	ECE	Navigation analysis of Underwater Remotely Operatable vehicle (ROV)	Mechanical Engineering / ECE
ECE10	Dr.S.Sakthivel Murugan	Associate Professor	sakthivels@ssn.edu.in	ECE	Analysis of underwater hybrid Energy harvesting System	EEE / ECE
ECE11	Dr.S.Sakthivel Murugan	Associate Professor	sakthivels@ssn.edu.in	ECE	Underwater Image restoration using ML /DL	Python language - ECE/EEE/CSE/IT
ECE12	Dr.S.Sakthivel Murugan	Associate Professor	sakthivels@ssn.edu.in	ECE	Tesing of an Audio signal in Underwater test tank	ECE/ CSE / IT
ECE13	G. Durga	Associate professor	durgag@ssn.edu.in	ECE	Design and implementation of FinFET based analog circuit using CADENCE tool	Basics of CMOS devices and analog circuits
ECE14	G. Durga	Associate professor	durgag@ssn.edu.in	ECE	Design and implementation of FinFET based digital circuit using CADENCE tool	Basics of CMOS devices and digital circuits
ECE15	Kaythry P	Associate Professor	kaythryp@ssn.edu.in	ECE	VLSI implementations of encryption technique to mitigate side-channel attacks	Verilog/ VHDL coding

ECE16	P.Kaythy	Associate Professor	kaythryp@ssn.edu.in	ECE	Improving the security with Quantum techniques (QKD or PQC)	Python
ECE17	P.Kaythy	Associate Professor	kaythryp@ssn.edu.in	ECE	Pipeline architecture design for Lightweight cryptographic algorithms	VHDL -Verilog
ECE18	P.Kaythy	Associate Professor	kaythryp@ssn.edu.in	ECE	Deep Learning-based Cryptanalysis of Lightweight Block Ciphers.	Python, Deep learning/ ML
ECE19	P.Kaythy	Associate Professor	kaythryp@ssn.edu.in	ECE	FPGA implementation of polar encoder	Xilinx / VLSI boards
ECE20	Dr. M. Anbuselvi	Associate Professor	anbuselvim@ssn.edu.in	ECE	Sensor enabled assistive system	Microcontrollers, C programming
ECE21	Dr. R. Hemalatha	Associate Professor	hemalathar@ssn.edu.in	ECE	Image Transmission in LoRA enabled Wireless Sensor Network	Basic knowledge of Python
ECE22	Dr. R. Hemalatha	Associate Professor	hemalathar@ssn.edu.in	ECE	Surveillance system using On-Device ML models	Basic Programming knowledge
ECE23	S. Karthie	Associate Professor	karthies@ssn.edu.in	ECE	Dual-mode fractal bandpass filter design for wireless applications	Knowledge on electromagnetic fundamentals and CST Microwave Studio simulation tool for filter design
ECE24	Dr. P. Vijayalakshmi	Professor	vijayalakshmi@ssn.edu.in	ECE	Development of speaker identification system	Python, Basic ML, Speech signal processing (optional)
ECE25	Dr. R. Kishore	Associate Professor	kishorer@ssn.edu.in	ECE	Optimizing Sensor Node Failure Recovery in Agricultural Fields Using Mobile Agents (Simulation Work)	Knowledge in Linux & Python programming
ECE26	Dr. R. Amutha	Professor	amuthar@ssn.edu.in	ECE	Image encryption using circle index	Python & MATLAB
ECE27	Dr. R. Amutha	Professor	amuthar@ssn.edu.in	ECE	Activity recognition using deep learning	Python & MATLAB
ECE28	Dr. R. Amutha	Professor	amuthar@ssn.edu.in	ECE	Independent living using deep learning	Python & MATLAB
ECE29	Dr. R. Amutha	Professor	amuthar@ssn.edu.in	ECE	App Development - Learning Tool	App development
ECE30	Dr. R. Amutha	Professor	amuthar@ssn.edu.in	ECE	Image Security	Python & MATLAB

ECE31	Dr. K. Muthumeenakshi	Associate Professor	muthumeenakshik@ssn.edu.in	ECE	Point of Care Testing for Environmental Monitoring	Microcontrollers
ECE32	Dr. K. Muthumeenakshi	Associate Professor	muthumeenakshik@ssn.edu.in	ECE	Machine Learning for Sensor Data Analysis	Python / Matlab
ECE33	Dr. K. Muthumeenakshi	Associate Professor	muthumeenakshik@ssn.edu.in	ECE	Nanosensor development for water quality monitoring	Sensors and Microcontroller Basics
ECE34	Dr. K. Muthumeenakshi	Associate Professor	muthumeenakshik@ssn.edu.in	ECE	Deep Learning for medical image analysis	Python / Matlab

EEE01	Dr.R.Seyezhai	Professor	seyezhair@ssn.edu.in	EEE	AI Predictive Models for Electric Vehicle Range Estimation	Python coding & MATLAB
EEE02	P. SaravananA	Associate Professor	saravananp@ssn.edu.in	EEE	BMS design, Autonomous Vehicle, Wireless power transfer and Embedded system,	Basic Electrical and Electronics
EEE03	Dr.M.Balaji	Associate Professor	balajim@ssn.edu.in	EEE	Microcontroller Based Electric Vehicle Management System	Basics of microcontrollers and C programming
EEE04	Dr. R. Ramaprabha	Associate Professor	ramaprabhar@ssn.edu.in	EEE	Application of AI algorithms for fault detection in PV systems.	MatLab, Basic Electronics
EEE05	Dr R Leo	Associate Professor	leor@ssn.edu.in	EEE	IOT and Machine learning based advanced building energy management	basics of IOT, Arduino and Python programming

ENG01	Dr. C. Vijaya Bhaskar	Assistant Professor	vijayabhaskarc@ssn.edu.in	English	Understanding the Impact of AI on Writing for enhanced workplace communication	Its a survey based study. The student has to send the google form and meet people to collect data on this topic.
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IT01	Dr.V.Arulkumar	Assistant Professor	arulkumarv@ssn.edu.in	IT	Automated Stroke Rehabilitation	wearable devices, machine learning, interventions, remote monitoring
IT02	Dr. S. Karthika	Associate Professor	skarthika@ssn.edu.in	IT	Explainable AI for Healthcare Decision Support Systems	Python
IT03	Dr. S. Karthika	Associate Professor	skarthika@ssn.edu.in	IT	Application development for recording and classifying motion	Python, basic application development
IT04	Dr. S. Karthika	Associate Professor	skarthika@ssn.edu.in	IT	Educational chatbot development using LLM	Python, Basics of ML/DL
IT05	K.R.Uthayan	Associate Professor	uthayankr@ssn.edu.in	IT	Predict Species from Images	Supervised learning with sci-kit learn, matplotlib
IT06	Dr. P. Vasuki	Associate Professor	VasukiP@ssn.edu.in	IT	Voice Conversion	Familiarity in any programming language
IT07	S Uma Maheswari	Assistant Professor	umamaheswaris@ssn.edu.in	IT	Design, development and Acoustic Analysis of normal and Lombard speech Tamil Corpus	Keen interest to learn and experiment.
IT08	V SIVAMURUGAN	Associate Professor	sivamuruganv@ssn.edu.in	IT	Mobile Controlled Automation	Python, Flutter and Arduino Programming Languages
IT09	J. K. Josephine Julina	Assistant Professor	josephinejulinajk@ssn.edu.in	IT	Alternative Communication for People with Progressive Neuromuscular Disease like Muscular Dystrophy	Machine learning and Deep learning algorithms, Media Pipe

MATH01	Dr. R. Sundareswaran	Associate Professor	sundareswaranr@ssn.edu.in	Mathematics	A Study on various graph parameters and their applications	Basic definitions of graph parameters
MATH02	Dr. M.Shanmugapriya	Assistant Professor	shanmugapriyam@ssn.edu.in	Mathematics	Multi-Criteria Decision making using Neutrosophic Theory	Basic definitions of fuzzy and neutrosophic theory
MATH03	Dr. S. Yugesh	Assistant Professor	yugeshs@ssn.edu.in	Mathematics	Random Sampling, Signal Reconstruction	Basic Mathematics and Matlab
MATH04	T. M. Rajalaxmi	Assistant Professor	rajalaxmitm@ssn.edu.in	Mathematics	Burning Number of Certain Interconnection Networks and its applications in Social Networks	-
MATH05	Praba B	Professor and Head	prabab@ssn.edu.in	Mathematics	Soft Graphs and their Applications	The student should have basic knowledge of Graph Theory.
MATH06	Praba B	Professor and Head	prabab@ssn.edu.in	Mathematics	Neutrosopic Graphs and their Applications	The students should have basic knowledge of Graph Theory.
MATH07	Dr. B. Sivakumar	Assistant Professor	sivakumarb@ssn.edu.in	Mathematics	Time series analysis -precious metals	Basic programming and statistics
MATH08	S.VANITHA	ASSISTANT PROFESSOR, GRADE III	vanithas@ssn.edu.in	Mathematics	ANALYSIS OF STOCHASTIC QUEUEING SYSTEMS	BASIC KNOWLEDGE IN PROBABILITY THEORY AND STOCHASTIC PROCESSES, C , PYTHON, MATLAB
MATH09	Dr. S. Sophia	Assistant Professor	sophias@ssn.edu.in	Mathematics	Application of Fluid Queuing Systems in Cloud Storage	B.Sc or M.Sc Mathematics Students
MATH10	Dr. S. Yugesh	Assistant Professot	yugeshs@ssn.edu.in	Mathematics	Exponential Average sampling approximation	Matlab
MATH11	Dr. S. Sampath Kumar	Assistant Professor	sampathkumars@ssn.edu.in	Mathematics	Some Topological Indices of Graphs and Digraphs	Graph Theory
MATH12	Dr. M. Sundarakannan	Assistant Professor	sundarakannanm@ssn.edu.in	Mathematics	Graph Domination and its Application in NoC	Graph Theory, Discrete Mathematics

MECH01	Dr. S A SRINIVASAN	Assistant Professor	srinivasansa@ssn.edu.in	Mechanical	Investigation on tribo corrosion behavior of 3D printed superalloys	Understanding on tribology and corrosion principles, characterisation and failure investigation. (Masters degree students preferred)
MECH02	Dr KS VIJAY SEKAR	PROFESSOR AND HOD	vijaysekarks@ssn.edu.in	Mechanical	Finite element analysis of machining process	Any CAD/FEA software hands on skills
MECH03	R Rajeswari	Associate Professor	rajeswarir@ssn.edu.in	Mechanical	Investigation on creep testing of magnesium alloy fabricated by Wire Arc Metal Additive Manufacturing	The student (UG or PG - Any year) from Mechanical Engineering or Metallurgy or material science or Manufacturing Engineering

MECH04	Dr. S.A.Srinivasan	Assistant Professor	srinivasansa@ssn.edu.in	ELECTROCHEMICAL CHARACTERISATION OF TERNARY ELECTROCATALYST FOR GREEN HYDROGEN PRODUCTION		Preferred (but not mandatory): M.E. / M.Tech / M.Sc students with Chemical / Mechanical / Materials Science students interested in electro chemical studies and characterization
MECH05	Dr. T. Micha Premkumar	Assistant Professor	michapremkumart@ssn.edu.in	Introduction to Computational Fluid Dynamics		UG
MECH06	Dr. Satheesh Kumar Gopal	Associate Professor	satheeshkumarg@ssn.edu.in	Development of Wall climber robot	Development of Parallel manipulator for Transfemoral prosthesis	Basic knowledge in electronics/programming
MECH07	Dr S Suresh Kumar	Associate Profesor	sureshkumars@ssn.edu.in	Failure investigation of Gas turbine disc using Extended Finite Element Method (XFEM)	Fatigue Life Estimation of Aero Engine components using FEM	Abqus/ Ansys Software knowledge

PHY01	Dr. RAJESH PAULRAJ	Assistant Professor	rajeshp@ssn.edu.in	Physics	The effect of substitution of Mn and Zn in CdTe: A theoretical analysis of its physical characteristics	M.Sc Physics or Materials Science (1st or 2nd year)
PHY02	Dr. RAEJSH PAULRAJ	Assistant Professor	rajeshp@ssn.edu.in	Physics	Correlation between excitation wavelength in PL and cutoff wavelength in NIR spectroscopy of CdTe and its related ternary alloys: An experimental approach	M.Sc Physics or Materials Science (1st or 2nd year)
PHY03	Dr. Julie Charles	Associate Professor	juliecharles@ssn.edu.in	Physics	Spectroscopic investigations on nanocomposites	M.Sc in Physics and Chemistry
PHY04	Dr. Julie Charles	Associate Professor	juliecharles@ssn.edu.in	Physics	Optical properties of polymer nanocomposites	M.Sc in Physics or Chemistry
PHY05	Dr.M. Srinivasan	Assistant Professor	srinivasanm@ssn.edu.in	Physics	Development of Silicon ingot via DS process for fabrication Solar cells, Thermoelectric materials for Space Applications	Yes. It may more useful for B.E and M.E mechanical, EEE and ECE students
PHY06	Dr. Rajesh Paulraj	Assistant Professor	rajeshp@ssn.edu.in	Physics	Topological and Electron density analysis of Piperazine	M.Sc (Physics or Chemistry or Materials Science- 1st or 2nd years)
PHY07	Dr. Rajesh Paulraj	Assistant Professor	rajeshp@ssn.edu.in	Physics	X ray Derived Experimental Charge Density Distribution in CdTe Crystals	M.Sc (Physics or Materials Science- 1st or 2nd years)
PHY08	Govindaraj R	Assistant Professor	govindarajr@ssn.edu.in	Physics	Fabrication of perovskite and dye sensitised solar cells	M.Sc., M.E., M.Tech (Branch: Physics, Chemistry, Nanoscience or Nanotechnology and Energy)
PHY09	Dr.A.Chandrasekaran	Assistant Professor	chandrasekarana@ssn.edu.in	Physics	Effect of magnetic minerals in agriculture soils	M.Sc physics or chemistry
PHY10	Dr.A.Chandrasekaran	Assistant Professor	chandrasekarana@ssn.edu.in	Physics	Study about the committed effective dose and cancer risk in tuber crops	M.Sc Physics or Chemistry
PHY11	Dr.A.Chandrasekaran	Assistant Professor	chandrasekarana@ssn.edu.in	Physics	Heavy mineral assessment of river sand for industrial applications	M.Sc Physics or Chemistry
PHY12	P.NAGAPANDISELVI	Assistant Professor (Gr-II)	nagapandiselvip@ssn.edu.in	Physics	GROWTH OF ORGANIC SINGLE CRYSTALS FOR NLO APPLICATIONS	M.Sc. Physics
PHY13	P.NAGAPANDISELVI	Assistant Professor (Gr-II)	nagapandiselvip@ssn.edu.in	Physics	GROWTH OF SEMI-ORGANIC SINGLE CRYSTALS FOR NLO APPLICATIONS	M.Sc Physics
PHY14	Dr. S. MASILLA MOSES KENNEDY	Professor	kennedysmm@ssn.edu.in	Physics	Luminescence properties of certain lanthanide ion doped vanadate phosphor for light applications	None
PHY15	Dr. S. MASILLA MOSES KENNEDY	Professor	kennedysmm@ssn.edu.in	Physics	Synthesis and luminescence characteristics of rare earth doped phosphate phosphors	Nil

PHY16	P. NAGAPANDISELVI	ASSISTANT PROFESSOR (Gr-II)	nagapandiselvip@ssn.edu.in	Physics	Wastewater treatment using photocatalytic method	M.Sc, Physics, B.E chemical engineering, M.Sc chemistry
PHY17	Dr. Rajesh Paulraj	Assistant Professor	rajeshp@ssn.edu.in	Physics	Fabrication of low cost plastic scintillators and its characterisation	M.Sc Physics, Chemistry, Materials Science and medical Physics
PHY18	Dr. Rajesh Paulraj	Assistant Professor	rajeshp@ssn.edu.in	Physics	Unidirectional Growth of Rare Earth added Phosphate crystals	M.Sc Physics, Chemistry, Materials Science
PHY19	Dr. S. Singaravadivelu	Assistant Professor	singarams@ssn.edu.in	Physics	Study of phase transition in Glycine phosphate through the measurement of electrical resistivity	M.Sc., Physics/ Chemistry
PHY20	Dr. S. Singaravadivelu	Assistant Professor	singarams@ssn.edu.in	Physics	Growth and characterization of ferroelectric crystals	M. Sc., Physics/Chemistry.