DEPARTMENT OF PHYSICS&ELECTRONICS
PROFILE: 2018-2025
PVKN GOVT. DEGREE COLLEGE(A)
CHITTOOR

1.BASIC INFORMATION

Vision of the Department:Conceiving by igniting and promoting enthusiasm in the study of Physics & Electronics, and inculcate the proper knowledge of fundamentals of Physics & Electronics, students are enabling to take up scientific temperment skills in their professional courses as a part of curriculum.

Mission of the Department:To provide a high standard of Education in Physics and Electronics, equipping students for advanced studies in these fields and promoting their progression into professional courses.

Name of the Department	Physics&Electronics
Year of establishment	1968
Institution Status	Autonomous
Groups/Courses related to the Physics&Electronics	B.Sc., (MPC,MPCs,MECs&BBSc), M.Sc., (Physics)
New courses introduced during the last five years	BBSc
2f & 12b of UGC	YES
Website	www.pvkngcchittoor.ac.in
Sanctioned posts as per SMPC	06
No. of Lecturers working (2022-23)	06
Regular	1
Contract	05
Guest	00
Part-time	00
Total full time Lecturers working	06
Department In-charges i) 2024-25 ii) 2023-24 iii) 2022-23 iv) 2021-22 v) 2020-21 vi) 2019-20 vii) 2018-19	 Dr.P.Mallika Bramaramba Devi Dr.P.Mallika Bramaramba Devi Dr.P.Mallika Bramaramba Devi Dr.P.Haribabu Dr.B.Annapurna Sarada Dr.B.Annapurna Sarada Dr.B.Annapurna Sarada
Department Area in mts	32 sq m
Classroom Area in mts	45 sq m
No. of Digital Classrooms	One
No. Virtual Classrooms	One (on sharing mode)

2.ACADEMIC INFORMATION

	Details of the Programmes Offered by the College (Academic years from 2018-2025)						
Year	Level of Programme	Name of Programme/ Course	Duration of Months	Entry Qualification	Medium ofInstruction	Sanctioned Strength	No. Of Students Admitted
2024-25	UG	BSc Physics honours	6	Intermediate	English	30	26
2023-24	UG	BSc Physics honours	6	Intermediate	English	30	22
2022-23	UG	BSC(MPC) BSC(MPCs) BSC(MECs) BSC(BBSc)	6 6 6 6	Intermediate Intermediate Intermediate Intermediate	English	30 30 30 30	00 08 10 07
2021-22	UG&PG	BSC(MPC) BSC(MPCs) BSC(MECs) BSC(BBSc) MSC(Physics	6 6 6 6 6	Intermediate Intermediate Intermediate Intermediate BSc Physics	English	30 30 30 30 30	10 34 30 08 4
2020-21	UG&PG	BSC(MPC) BSC(MPCs) BSC(MECs) MSC(Physics)	6 6 6 6	Intermediate Intermediate Intermediate BSc Physics	English	30 30 30 30	13 18 27 20
2019-20	UG&PG	BSC(MPC) BSC(MPCs) BSC(MECs) MSC(Physics	6 6 6 6	Intermediate Intermediate Intermediate BSc Physics	English	30 30 30 30	06 22 15 20
2018-19	UG&PG	BSC(MPC) BSC(MPCs) MSC(Physics	6 6 6	Intermediate Intermediate BSc Physics	English	30 30 30	06 18 15
Total						**660**	**341**

3.Teaching Faculty

Year	Regular	Contract	Guest	Total	Name of the Lecturers	Transferred from and to	Qualification	Contact information
2024-25	**1**	**5**	**0**	**6**	i)Dr.P.Mallika Bramaramba Devi ii)Dr.G.Sudhakar iii)Dr.G.Udaya Bhaskara reddy iv) Sri.B.Rama Sagar v) Sri.G.Raveendra Babu vi) Smt. A.Navaneetha	-------	M.Sc.,M.Phil. Ph.D., M.Sc.,M.Phil.,Ph.D M.Sc.,Ph.D., M.Sc., M.Phil., M.Sc., M.Sc.,	6281983738 9030361290 9493040063 9866710748 9494751220 9490030117
2023-24	**1**	**5**	**0**	**6**	i)Dr.P.Mallika Bramaramba Devi ii)Dr.G.Sudhakar iii)Dr.G.Udaya Bhaskara reddy iv) Sri.B.Rama Sagar v) Sri.G.Raveendra Babu vi) Smt. A.Navaneetha	-------	M.Sc.,M.Phil. Ph.D., M.Sc.,M.Phil.,Ph.D M.Sc.,Ph.D., M.Sc., M.Phil., M.Sc., M.Sc.,	6281983738 9030361290 9493040063 9866710748 9494751220 9490030117
2022-23	**1**	**5**	**0**	**6**	i)Dr.P.Mallika Bramaramba Devi ii)Dr.G.Sudhakar iii)Dr.G.Udaya Bhaskara reddy iv) Sri.B.Rama Sagar v)Dr.Y.Lakshmi Prasad Reddy vi) Sri.G.Raveendra Babu	-------	M.Sc.,M.Phil. Ph.D., M.Sc.,M.Phil.,Ph.D M.Sc.,Ph.D., M.Sc., M.Phil., M.Sc.,Ph.D., M.Sc.,	6281983738 9030361290 9493040063 9866710748 9848947818 9494751220
2021-22	**0**	**6**	**0**	**6**	i)Dr. G. Sudhakar ii)Dr. G. Udaya Bhaskara reddy iii)Sri. B. Rama Sagar iv)Dr. Y. Lakshmi Prasad Reddy v)Sri. G. Raveendra Babu vi)Dr. K. Rama Krishna	-------	M.Sc.,M.Phil.,Ph.D M.Sc.,Ph.D., M.Sc., M.Sc.,Ph.D., M.Sc MSc.,Ph.D.,	9030361290 9493040063 9866710748 9848947818 9494751220 9885644545

2020-21	**2**	**1**	**3**	**6**	i)Dr.B.Annapurna Sarada ii) Sri.T.Raghu Raman iii)Sri.K.Venkatadri iv) B.M.Nirosha v) K.Thejasree vi) N.Nafeesa Neelufer	Promoted Transfered to gdc Puttur	Ph.D., M.Sc., M.Sc., M.Sc., M.Sc., M.Sc.,	9948231118 7396650368 9010604949 9491290998 6301039161
2019-20	**3**	**1**	**2**	**6**	i)Dr.B.Annapurna Sarada ii) Dr.K.C.Sathyalatha iii)Sri.T.Raghu Raman iv)Sri.K.Venkatadri v) B.M.Nirosha vi) K.Thejasree		Ph.D., Ph.D., M.Sc., M.Sc., M.Sc., M.Sc.,	9948231118 9440276133 7396650368 9010604949 9491290998 6301039161
2018-19	**4**	**1**	**1**	**6**	i) Dr.K.Subramanyam Naidu ii)Dr.B.Annapurna Sarada iii) Dr.K.C.Sathyalatha iv)Sri.T.Raghu Raman v)Sri.K.Venkatadri vi) B.M.Nirosha	Retired	Ph.D., Ph.D., Ph.D., M.Sc., M.Sc., M.Sc.,	9948231118 9440276133 7396650368 9010604949 9491290998

4.Student details of the department during the last five academic years

Programme		**2024-25**	**2023-24**	**2022-23**	**2021-22**	**2020-21**	**2019-20**	**2018-19**
SC	**Male**	8	**7**	**10**	**35**	**14**	**03**	**8**
	Female	0	**1**	**8**	**3**	**9**	0	**2**
	Others	0	0	0	0	0	0	**0**
ST	**Male**	1	**0**	0	**2**	0	**1**	**2**
	Female	0	0	0	0	0	0	**1**
	Others	0	0	0	0	0	0	**0**
OBC	**Male**	7	**9**	**5**	**20**	**11**	**4**	**11**
	Female	4	**3**	**1**	**7**	**9**	0	**3**
	Others	0	0	0	0	0	0	**0**
General	**Male**	4	**2**	**1**	**5**	**3**	**2**	**9**
	Female	2	0	0	0	**1**	0	**3**
	Others	0	0	0	0	0	0	**0**
Others	**Male**	0	0	0	0	0	0	**0**
	Female	0	0	0	0	0	0	**0**
	Others	0	0	0	0	0	0	**0**
Total		26	**22**	**25**	**72**	47	10	**38**

5. Evaluative Report of the Department

Name of the Autonomous College PVKN Govt College(A)

Name of the Department: Physics&Electronics

Dist Chittoor **State:Andhra Pradesh**

Total Number of Departments in the institution: 16

Sl. No.	Name of the Department	Physics&Electronics
1.	Year of Establishment	**1968**
2.	Is the Department part of a School/Faculty of the Autonomous College	**Yes**
3.	Names of programmes offered	**BSC(MPC,MPCs,MECs, BBSC , Physics honours & Electronics minor)**
4.	Number of teaching posts Sanctioned/Filled	**6**
5.	Number of Research Projects: Total grants received	**0**
6.	Inter –institutional collaborative projects andAssociated Grantsreceived ----	
	National collaboration	**---**
	International collaboration	**---**
7.	Departmental projects funded by DST-FIST, UGC-SAP/CAS,DPE, DBT, ICSSR, AICTE etc., Total grants received	**---**
8.	Special research laboratories sponsored by / created by industry or corporate bodies	**-----**
9.	Publications:	
	Number of Papers published	**16**
	Number of Books with ISBN	
	Number of Citation Index – range / average	**8**
	Number of Impact Factor – range / average	
	Number of h-index	**8**
10.	Details of patents and income generated	

11.	Areas of consultancy and income generated	
12.	Awards/Recognitions received at the National and international level by:	
	Faculty	--
	Doctoral/Postdoctoral fellows	--
	Students	---
13.	How many students have cleared Civil Services and Defense Services examinations, NET, SET (SLET), GATE and other competitive examinations	--
14.	List of doctoral, post-doctoral studentsand research associates	
	From the host institution/university	--
	From other institutions/universities	----
15.	Number of Research Scholars/ Post Graduate students getting financial assistance from the University/State/ Central	---

Note: ***Compile data for the last five years***

Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer Team will validate the information provided in this SSR during the peer team visit.

Principal
PVKN. Govt. College (A)
Chittoor-517002. (A.P.)

Signature of the Head of the institution with seal:

Place: Chittoor
Date:03.01.2025

6. **CO, PO and PSO of the Programmes**
Programme Outcomes

Programme Outcomes (PO) were developed in accordance with the College'sVision, Mission, and Strategies as well as the UGC's Graduate Attributes requirements. Whendrafting POs, the College considered factors such as academic excellence, research potential,the scope of extension activities, human values, livelihood generation, and current employmentmarket trends. Alumni and other stakeholders' suggestions were also considered. Thecurriculum was redesigned in consultation with specialists, and suitable evaluation patternswere adopted. The PO pattern was explained to the students via the College Website, emails,messages, handouts, and orientation by the relevant course lecturers.Bachelor of Science (B.Sc. Programme)

PO1: Scientific Domain Knowledge: Apply the knowledge of Life Science, Physicaland Chemical Science, Mathematics, statistics, Computer science andhumanities for the attainment of solutions to the problems that come across inour day-to-day life/activities.
PO2: Critical Thinking: Capability to apply, analyze and evaluate evidence,arguments, claims, policies, beliefs, and theories based on experientialevidence.
PO3: Problem-Solving and Environment Sustainability: Identify and analyzetheproblem and formulate solutions for problems using the principles ofmathematics, physical, chemical, and natural sciences with appropriateconsideration for public health, safety, and environmental considerations forsustainable development.

PO4: Communication and Computer Literacy: Communicate the fundamental andadvanced concepts of their discipline in written and oral form. Able to makeappropriate and effective use of information and information technologyrelevant to their discipline.

PO5: Modern equipment usage: Recognize, and retrieve the authenticatedinformation for optimal usage of equipment and have knowledge of softwareapplications to analyze the data

PO6: Ethical, Social, Professional understanding Commitment to principles, codesof conduct, intellectual honesty, and social responsibility in order to behaveconsistently with personal respect. Acquire the responsibility to contribute topersonal development and the development of the community. Respect ethicalvalues, social responsibilities, and diversity.
PO7: Innovative, Leadership and Entrepreneurial Skill Development: Function asan individual, and as a member or leader in diverse teams and inmultidisciplinary settings. Become anentrepreneurbyacquiringtechnical,communicative, problem-solving, and intellectual skills.
PO8: Independent and Life-Long Learning: Recognize the need for and have the
preparation and ability to engage in independent a

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Programme: BSc (Physics)

Programme Specific Outcomes (PSOs) for BSc (Physics)

Sl.No	On completing BSc Physics, the student will be able to:
PSO 1	Gain the knowledge of Physics through theory and practical
PSO 2	Understand good laboratory practices and safety
PSO 3	Develop research-oriented skills
PSO 4	Make aware and handle the laboratory instruments/equipment
PSO 5	The students will develop problem-solving skills, experimental and data analysis skills in physics
PSO 6	Students learn various concepts which help them in understanding physical phenomenon in nature

Semester I

Course Title: MECHANICS, WAVES & OSCILLATIONS

Course Code: 21-PHY-1C1

Sl.No	On completing the course, the student will be able to:	PSOs addressed	Cognitive levels
CO 1	Analyse Newton's laws of motion, motion of variable mass system and its application to rocket motion	**PSO6**	**An**
CO 2	Apply the rotational kinematic relations, the principle and working of gyroscope and its applications.	**PSO3**	**Ap**
CO 3	Understand postulates of Special theory of relativity and its consequences such as length contraction, time dilation, relativistic mass and mass-energy equivalence.	**PSO6** **PSO2**	**U**
CO 4	Examine phenomena of simple harmonic motion and the distinction between undamped, damped and forced oscillations and the concepts of resonance and quality factor with reference to damped harmonic oscillator.	**PSO4**	**C**
CO 5	Figure out the formation of harmonics and overtones in a stretched string and acquire the knowledge on Ultrasonic waves, their production and detection and their applications in different fields.	**PSO1**	**R**

Semester IICourse Title: WAVE OPTICS Course Code: 21-PHY-2C2

Sl.No	On completing the course, the student will be able to:	PSOs addressed	Cognitive levels
CO 1	Remember the phenomenon of interference of light and its formation in Lloyd's single mirror due to division of wave front, thin films, Newton's rings and Michelson interferometer due to division of amplitude.	**PSO2**	**R**
CO 2	Understand the difference between Fresnel's diffraction and Fraunhofer diffraction, observe the diffraction patterns in the case of single slit and the diffraction grating. : Describe the construction and working of zone plate and make the comparison of zone plate with convex lens.	**PSO6**	**U**
CO 3	Understand the various methods of production of plane, circularly and polarized light and their detection and the concept of optical activity.	**PSO6**	**U**
CO 4	Apply the basic principle of laser, the working of He-Ne laser and Ruby lasers and their applications in different fields.	**PSO3**	**Ap**
CO 5	Apply the different aberrations in lenses and discuss the methods of minimizing them.	**PSO3**	**C**

Semester III

Course Title: HEAT AND THERMODYNAMIC

Course Code: 21-PHY-3C3

Sl.No	On completing the course, the student will be able to:	PSOs addressed	Cognitive levels
CO 1	Understand the basic aspects of kinetic theory of gases, Maxwell-Boltzmann distribution law and transport phenomenon in gases	**PSO2**	**U**
CO 2	Gain knowledge on the first and the second law of thermodynamics, Carnot's engine, principles of refrigeration, concept of entropy.	**PSO1**	**R**
CO 3	Understand the various methods of production of plane, circularly and polarized light and their detection and the concept of optical activity.	**PSO1** **PSO6**	**R,U**
CO 4	Differentiate between principles and methods to produce	**PSO5**	**An**

	low temperature, liquefaction of helium gas and to understand the practical applications of substances at low temperatures.		
CO 5	Examine the nature of black body radiations and the basic theories.	**PSO4**	**C**

Semester- IV

Course Title: ELECTRICITY, MAGNETISM & ELECTRONICS

Course Code: 21-PHY-4C4

Sl.No	**On completing the course, the student will be able to:**	**PSOs addressed**	**Cognitive levels**
CO 1	Understand the Gauss law and its application to obtain electric field in different cases.	**PSO1** **PSO6**	**G,U**
CO 2	Distinguish between the magnetic effect of electric current and electromagnetic induction and apply the related laws in appropriate circumstances.	**PSO5**	**An**
CO 3	Develop an understanding on the unification of electric and magnetic fields and Maxwell's equations governing electromagnetic waves.	**PSO3**	**Ap**
CO 4	Phenomenon of resonance in LCR AC-circuits, sharpness of resonance,Q- factor, Power factor and the comparative study of series and parallel resonant circuits.	**PSO5**	**An**
CO 5	Describe the operation of p-n junction diodes, zener diodes, transistors and logic gates.	**PSO2**	**U**

Semester – IV

Course Title: MODERN PHYSICS Course Code: 21-PHY-4C5

Sl.No	**On completing the course, the student will be able to:**	**PSOs addressed**	**Cognitive levels**
CO 1	To understand the concepts of atomic physics, molecular physics, basic elementary quantum mechanics and nuclear physics.	**PSO6**	**Ap**
CO 2	To familiarize the concepts of matter waves, Uncertainty principle and Schrodinger wave equation.	**PSO1**	**R**
CO 3	To study the properties of nucleus, nuclear models, nuclear detectors and elementary particles.	**PSO6**	**U**
CO 4	To analyse the types of materials, Miller indices and X-ray	**PSO5**	

	diffraction.		**An**
CO 5	To create awareness on superconductors and their applications.	**PSO4**	**C**

Semester –V

Course Title: ELECTRICITY, MAGNETISM & ELECTRONICS

Course Code: 21-PHY-501

Sl.No	**On completing the course, the student will be able to:**	**PSOs addressed**	**Cognitive levels**
CO 1	Understand the Gauss law and its application to obtain electric field in different cases.	**PSO1** **PSO6**	**R,U**
CO 2	Distinguish between the magnetic effect of electric current and electromagnetic induction and apply the related laws in appropriate circumstances.	**PSO5**	**An**
CO 3	Develop an understanding on the unification of electric and magnetic fields and Maxwell's equations governing electromagnetic waves.	**PSO1**	**U**
CO 4	Phenomenon of resonance in LCR AC-circuits, sharpness of resonance,Q- factor, Power factor and the comparative study of series and parallel resonant circuits.	**PSO4**	**C**
CO 5	Describe the operation of p-n junction diodes, zener diodes, transistors and logic gates.	**PSO3**	**Ap**

Semester - V

Course Title: MODERN PHYSICS

Course Code: 21-PHY-502

Sl.No	**On completing the course, the student will be able to:**	**PSOs addressed**	**Cognitive levels**
CO 1	To understand the concepts of Atomic physics, molecular physics, basic elementary quantum mechanics and nuclear physics.	**PSO6**	**Ap**
CO 2	To familiarize the concepts of matter waves, Uncertainty principle and Schrodinger wave equation.	**PSO1**	**R**
CO 3	To study the properties of nucleus, nuclear models, nuclear detectors and elementary particles.	**PSO6**	**U**
CO 4	To analyse the types of materials, Miller indices and X-ray diffraction.	**PSO5**	**An**

CO 5	To create awareness on superconductors and their applications.	**PSO4**	**C**

Semester – VI

Course Title: MATERIALS SCIENCE

Course Code: 21-PHY-601

Sl.No	**On completing the course, the student will be able to:**	**PSOs addressed**	**Cognitive levels**
CO 1	Remember different types of chemical bonds – Ionic bond, covalent bond or homopolar bond, Metallic bond, Dispersion bond, Dipole bond, Hydrogen bond and Binding energy of a crystal.	**PSO1**	**R**
CO 2	Understand Classification of materials, Crystalline, Amorphous, Glasses, Metals, Alloys, Semiconductors, Polymers, Ceramics, Plastics, Biomaterials, Composites, Bulk and nanomaterial.	**PSO2**	**U**
CO 3	Understand point defect, line defect, surface defect, volume defect and their minimization methods, Diffusion in solids- Fick's laws of diffusion.	**PSO6**	**U**
CO 4	Apply Mechanical Behaviour of Materials, Creep – Fracture, Factors affecting mechanical properties of a material, Deformation of metals.	**PSO5**	**An**
CO 5	Apply Dia-, Para-, Ferri- and Ferromagnetic materials, Curie's law, Weiss's theory of ferromagnetism, Ferromagnetic domains, B-H Curve, Hysteresis and energy Loss.	**PSO3**	**Ap**

Semester – VI

Course Title: FUNDAMENTALS OF NANOSCIENCE

Course Code: 21-PHY-602

Si.No	On completing the course, the student will be able to:	PSOs addressed	Cognitive levels
CO 1	Remember solid state – size dependence of properties, crystal structures, Lattice vibrations, Energy bands of Insulators Semiconductors and conductors.	**PSO1**	**R**
CO 2	Understand about the classificationof Nanomaterials, carbon nanotubes and cones, Organic nanomaterials, Bionanomaterials, Nanomaterials for molecular electronics and optoelectronics.	**PSO6**	**U**
CO 3	Understand classification of polymers, chain polymerization, step polymerization, degree of polymerization, Kinetics of free radical polymerization.	**PSO1**	**R**
CO 4	Apply tiny motors, Gyroscopes and accelerometers. Nano particle embedded wrinkle resistant cloth, Transparent Zinc Oxide sun screens.	**PSO5**	**An**
CO 5	Analyse Biomaterials, Implant materials- Stainless steels and its alloys, Ti and Ti based alloys, Ceramic implant materials Soft tissue replacement implants, Artificial organs Internal Fracture Fixation Devices.	**PSO5**	**C**
CO6	Apply Bio-systems, Nanoscale processes in environment. Quantum control and quantum computing. Single electron transistors, Quantum dots, Quantum wires.	**PSO2**	**U**

Semester – VI

Course Title: SYNTHESIS AND CHARACTERIZATION OF NANOMATERIALS

Course Code: 21-PHY-603

Si.No	On completing the course, the student will be able to:	PSOs addressed	Cognitive level
CO 1	Remember Synthesis and nanofabrication, Chemical precipitation methods, sol-gel method, chemical reduction, hydro- thermal process.	**PSO1**	**R**
CO 2	Understand Physical Vapour deposition (PVD), Sputtering, Chemical Vapour deposition (CVD), spray pyrolysis, Synthesis using microorganisms and bacteria, Synthesis using plant extract.	**PSO6**	**U**

CO 3	Understand types of materials, diffusion, Mechanical properties. Metallic glasses. Electrical, magnetic and thermal properties of materials.	**PSO1** **PSO6**	**R,U**
CO 4	Apply the theories for the glass transition, determination of glass-transition temperature. Apply glasses in Electronic, Electrochemical, optical and Magnetic fields.	**PSO2** **PSO3**	**U**
CO 5	Apply different liquid crystals in Thermal and electric fields. Apply liquid crystals in Liquid Crystals displays.	**PSO5**	**An**

Semester – VI

Course Title: APPLICATIONS OF NANOMATERIALS AND DEVICES

Course Code: 21-PHY-604

Si.No	**On completing the course, the student will be able to:**	**PSOs addressed**	**Cognitive levels**
CO 1	Remember Coulomb interaction in nanostructures, Concept of dielectric constant for nanostructures and charging of nanostructure. Exactions in direct and indirect band gap semi conductor nanocrystals.	**PSO6**	**U**
CO 2	Understand the carrier transport in nanostrcutures. Hall effect, Coulomb blockade effect, tunneling and hoping conductivity. Deep level surface defects.	**PSO1**	**R**
CO 3	Understand optical switching and optical data storage. Magnetic quantum well; magnetic dots - magnetic data storage. Micro Electromechanical Systems (MEMS), Nano Electromechanical Systems (NEMS).	**PSO1** **PSO6**	**R,U**
CO 4	Apply nanoparticles, quantum dots, nanowires and thin films for photonic devices (LED, solar cells). Single electron transfer devices and CNT based transistors.	**PSO3**	**Ap**
CO 5	Apply DNA double nanowires, Nanomaterials in drug delivery and therapy, Nanomedicine, Targeted gold nanoparticles for imaging and therapy.	**PSO5**	**An**

7. Certificate/Value add-on/MOOCs/Diploma/Online certificate Programmes

Year	**2023-2024**	**2022-23**	**2021-22**	**2020-21**	**2019-20**	**2018-19**
No. programmes offered	01	02	02	01	--	--
No. of students Enrolled	20	41	40	30	--	--
No. of students completed	20	41	40	30	--	--
Percentage of students completed against to the total strength	100%	100%	100%	100%	--	--

8. F***ield projects / research projects / internships during the last five years.***

Year	2023-24	**2022-23**	**2021-22**	**2020-21**	**2019-20**	**2018-19**
CSP	20		60		---	---
No. of students Enrolled	20	25	60	51	---	---
No. of students completed	20	25	60	51	---	---
Percentage of students completed against to the total strength	100%	100%	100%	100%	---	---

Year	2023-24	**2022-23**	**2021-22**	**2020-21**	**2019-20**	**2018-19**
Short term Internship	07	60		---	---	---
No. of students Enrolled	07	60	51	---	---	---
No. of students completed	07	60	51	---	---	---
Percentage of students completed against to the total	100%	100%	100%	---	---	---

strength						
Year	**2023-24**	**2022-23**	**2021-22**	**2020-21**	**2019-20**	**2018-19**
Long term Internship	55	60	51	---	---	---
No. of students Enrolled	55	60	51	---	---	---
No. of students completed	55	60	51	---	---	---
Percentage of students completed against to the total strength	100%	100%	100%	---	---	---

10. Feedback system:**Maintained by IQAC**

11. ***Enrolment percentage***

Number of seats filled year wise during last five years(Only first year admissions to be considered)

Year	Level of Programme	Name of Programme/ Course	Duration	Entry Level Qualification	Medium of Instruction	Sanctioned Strength	No. of Students Admitted	Total
2024- 25	UG	B.SC Physics Hons	4	Intermediate	EM	30	26	26
2023-24	UG	B.SC Physics Hons	4	Intermediate	EM	30	22	22
2022-23	UG	MPCs	3	Intermediate	EM	30	08	25
		MECs	3	Intermediate	EM	30	10	
		BBSC	3	Intermediate	EM	30	07	
2021-22	UG	MPCs	3	Intermediate	EM	30	34	82
		MECs	3	Intermediate	EM	30	30	
		BBSC	3	Intermediate	EM	30	08	
		MPC	3	Intermediate	EM	30	10	
2020-21	UG	MPCs	3	Intermediate	EM	30	18	58
		MECs	3	Intermediate	EM	30	27	
		MPC	3	Intermediate	EM	30	13	
2019-20	UG	MPCs	3	Intermediate	EM	30	22	43
		MECs	3	Intermediate	EM	30	15	
		MPC	3	Intermediate	EM	30	06	
2018-19	UG	MPCs	3	Intermediate	EM	30	18	24
		MPC	3	Intermediate	EM	30	06	

Number of sanctioned seats year wise during last five years

Year	2024-25	2023-24	2022-23	2021-22	2020-21	2019-20	2018-19
Sanctioned strength	30	30	120	150	120	120	90
Admitted strength	26	22	25	88	78	63	39
Percentage	86.86	73.33	21%	59%	65%	53%	43.33%

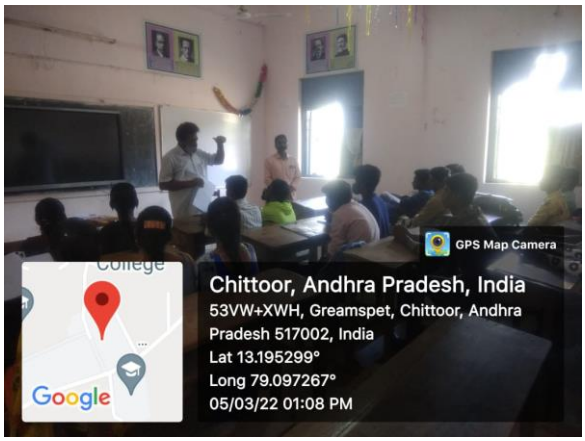
12. Student Centric Methods:

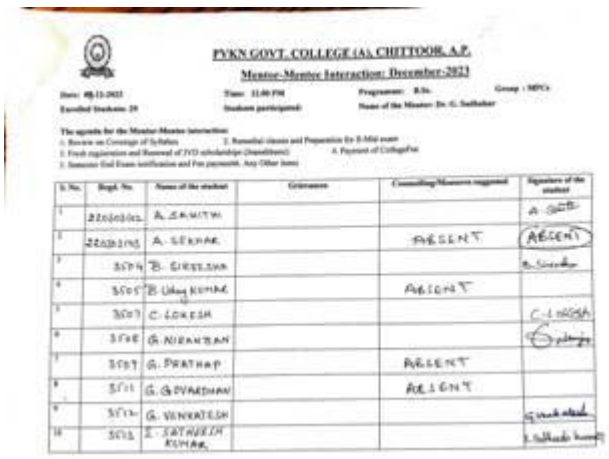
i) Experiential Learning
ii) Participative Learning
iii) Problem Solving Learning
iv) ICT enabled tools (usage of online resources)

13.Mentor and Mentee System:

I BSC MPCs Mentor Mentee Interaction Programme On 05-03-2022

Name of the Mentor : G.RAVEENDRA BABU





PVKN GOVT. COLLEGE (A), CHITTOOR, A.P.

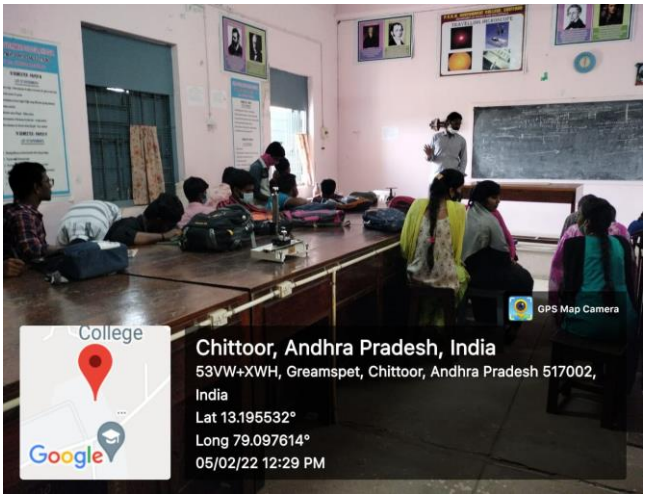
Mentor-Mentee Interaction: December-2023

S.No.	Regd. No.	Name of the student	Grievance	Counseling/Measures suggested	Signature of the student
1	22	A. SAMUTH			A. SAM
2	23	A. SEKHAR		PRESENT	ABSENT
3	24	B. GEETHA			B. Geetha
4	25	B. Uday KUMAR		ABSENT	
5	26	C. LOKESH			C. LOKESH
6	27	G. NIRANJAN			G. Niranjan
7	28	G. PRATHAP		ABSENT	
8	29	G. G.PVARDHAN		ABSENT	
9	30	G. VENKATESH			G. Venkatesh
10	31	I. SATHEESH KUMAR			I. Satheesh Kumar

Outcome of the Mentor-Mentee Interaction:

1. Assignments and seminars are informed at the end of the semester during practical examinations.
2. Field trip and educational tours to be organized from college side.

Outcome of the Mentor-Mentee Interaction: Review on student attendance.



DEPARTMENT OF PHYSICS&ELECTRONICS
PROFILE: 2018-2025
PVKN GOVT. DEGREE COLLEGE(A)
CHITTOOR

Mentor-Mentee Interaction: MARCH-2024

Photo:

Outcomes of the Mentor-Mentee Interaction:

1. Reviewed on student attendance
2. Reviewed on completion of syllabus for Mid term examination
3. Supplied minimum study material to the Slow Learners
4. Enquired about Janabhumi Registrations

14. ***Percentage of full-time teachers with Ph.D./D.Sc. / D.Litt./ L.L.D during the last five years***

Year	**2023-24**	**2022-23**	**2021-22**	**2020-21**	**2019-20**	**2018-19**
Number	5	4	4	1	2	3
Name of the Lecturers	1. Dr. P. Mallika Bramaramba Devi 2. Dr. G.Sudhakar 3. Dr.G. Udaya Bhaskara reddy	1. Dr. P. Mallika Bramaramba Devi 2. Dr. G.Sudhakar 3. Dr.G. Udaya Bhaskara reddy 4. Dr.Y. Lakshmi prasad reddy	1. Dr.K. Rama Krishna 2. Dr. G. Sudhakar 3. Dr.G. Udaya Bhaskara Reddy 4. Dr.Y. Lakshmi prasad Reddy	1. Dr.B.Annapurna Sarada	1. Dr.B. Annapurna Sarada 2. Dr. K. C. Sathya Latha	1. Dr.B.Annapurna Sarada 2. Dr.K. C. Sathya latha 3. Dr.K. Subramanyam Naidu
Year of acquiring Ph.D.,	1. 2021 2. 2003 3. 2016	1. 2021 2. 2003 3. 2016 4. 2018	1. 2018 2. 2003 3. 2016 4. 2018	1. 2008	1. 2008 2. 2006	1. 2008 2. 2006 3. 2004
Name of the University	1. SV University 2. SK University 3. JNTU University	1. SV University 2. SK University 3. JNTU University 4. SK University	1. SK University 2. SK University 3. JNTU University 4. SK University	1. SV University	1. SV University 2. SV University	1. SV University 2. SV University 3. SV University

15. Grievance and Redressal system

Number of complaints/grievances about evaluation year wise during last five years

Year	2023-24	2022-23	2021-22	2020-21	2019-20	2018-19
Number	0	0	01	0	0	0

16. Result Analysis

2023-2026 Batch

Year	I SEM-2023-2026 batch	
Group	B.SC Physics Honours	
No.of Students Appeared	Paper-1	Paper-2
	20	20
No. of Students Passed	20	20
Pass Percentage(%)	100	100

Year	II SEM-2023-2026 batch	
Group	B.SC Physics Honours	
No.of Students Appeared	Paper-3	Paper-4
	20	20
No. of Students Passed	9	10
Pass Percentage(%)	45	50

Year	II SEM-2023-2026 batch
Group	B.SC Electronics Minor
No.of Students Appeared	17
No. of Students Passed	12
Pass Percentage(%)	71

2022-2025 Batch

Year	I SEM-2022-2025 batch		
Group	BBSC	MECs	MPCs
No.of Students Appeared	7	9	8
No. of Students Passed	7	6	4
Pass Percentage(%)	100	67	50

DEPARTMENT OF PHYSICS&ELECTRONICS
PROFILE: 2018-2025
PVKN GOVT. DEGREE COLLEGE(A)
CHITTOOR

Year	II SEM-2022-2025 batch		
Group	BBSC	MECs	MPCs
No.of Students Appeared	7	7	8
No. of Students Passed	7	5	3
Pass Percentage(%)	100	71	38

Year	III SEM-2022-2025 batch		
Group	BBSC	MECs	MPCs
No.of Students Appeared	7	7	7
No. of Students Passed	7	5	2
Pass Percentage(%)	100	71	29

Year	IV SEM-2022-2025 batch				
Group	BBSC	MECs		MPCs	
Paper	7	Paper-4	Paper-5	Paper-4	Paper-5
No.of Students Appeared		7	7	7	7
No. of Students Passed	7	7	6	6	6
Pass Percentage(%)	100	100	86	86	86

2021-2024 Batch

Year	I SEM-2021-2024 batch			
Group	MPC	MPCs	MECs	BBSC
No.of Students Appeared	9	33	29	8
No. of Students Passed	9	30	24	8
Pass Percentage(%)	100	91	83	100

Year	II SEM-2021-2024 batch			
Group	MPC	MPCs	MECs	BBSC
No.of Students Appeared	9	31	27	8
No. of Students Passed	9	28	23	8
Pass Percentage(%)	100	90	85	100

DEPARTMENT OF PHYSICS&ELECTRONICS

PROFILE: 2018-2025

PVKN GOVT. DEGREE COLLEGE(A)

CHITTOOR

Year	III SEM-2021-2024 batch			
Group	MPC	MPCs	MECs	BBSC
No.of Students Appeared	9	29	27	8
No. of Students Passed	9	28	21	8
Pass Percentage(%)	100	97	78	100

Year	IV SEM-2021-2024 batch						
Group	MPC		MPCs		MECs		BBSC
Paper	Paper-4	Paper-5	Paper-4	Paper-5	Paper-4	Paper-5	
No.of Students Appeared	9	9	29	29	26	26	8
No. of Students Passed	3	9	23	28	16	20	8
Pass Percentage(%)	33	100	79	97	62	77	100

Year	V SEM-2021-2024 batch									
Group	MPC		MPCs		MECs		BBSC			
Paper	Paper-6	Paper-7	Paper-6	Paper-7	Paper-6	Paper-7	501	502	503	504
No.of Students Appeared	9	9	29	29	26	26	8	8	8	8
No. of Students Passed	9	2	27	22	23	24	8	8	8	8
Pass Percentage(%)	100	22	93	76	88	92	100	100	100	100

Year	VI SEM-2021-2024 batch						
Group	MPC	MPCs	MECs	BBSC			
Paper	OJT	OJT	OJT	601	602	603	604
No.of Students Appeared	9	29	26	8	8	8	8
No. of Students Passed	9	29	26	7	8	7	7
Pass Percentage(%)	100	100	100	88	100	88	88

DEPARTMENT OF PHYSICS&ELECTRONICS
PROFILE: 2018-2025
PVKN GOVT. DEGREE COLLEGE(A)
CHITTOOR

2020-2023 Batch

Year	I SEM-2020-2023 batch		
Group	**MPC**	**MECs**	**MPCs**
No.of Students Appeared	13	27	18
No. of Students Passed	10	24	17
Pass Percentage(%)	77	89	94

Year	II SEM-2020-2023 batch		
Group	**MPC**	**MECs**	**MPCs**
No.of Students Appeared	12	24	18
No. of Students Passed	12	21	12
Pass Percentage(%)	100	88	67

Year	III SEM-2020-2023 batch		
Group	**MPC**	**MECs**	**MPCs**
No.of Students Appeared	12	23	18
No. of Students Passed	12	20	16
Pass Percentage(%)	100	87	89

Year	IV SEM-2020-2023 batch					
Group	**MPC**		**MPCs**		**MECs**	
Paper	**Paper-4**	**Paper-5**	**Paper-4**	**Paper-5**	**Paper-4**	**Paper-5**
No.of Students Appeared	12	12	18	18	20	20
No. of Students Passed	9	6	11	8	17	18
Pass Percentage(%)	75	50	61	44	85	90

DEPARTMENT OF PHYSICS&ELECTRONICS

PROFILE: 2018-2025

PVKN GOVT. DEGREE COLLEGE(A)

CHITTOOR

Year	V SEM-2020-2023 batch					
Group	MPC		MPCs		MECs	
Paper	Paper-6	Paper-7	Paper-6	Paper-7	Paper-6	Paper-7
No.of Students Appeared	12	12	18	18	21	21
No. of Students Passed	11	9	16	17	20	17
Pass Percentage(%)	92	75	89	94	95	81

Year	VI SEM-2020-2023 batch		
Group	MPC	MPCs	MECs
Paper	OJT	OJT	OJT
No.of Students Appeared	12	18	21
No. of Students Passed	12	18	21
Pass Percentage(%)	100	100	100

2019-2022 Batch

Year	I SEM-2019-2022 batch		
Group	MPC	MECs	MPCs
No.of Students Appeared	14	6	22
No. of Students Passed	11	6	20
Pass Percentage(%)	76	100	91

Year	II SEM-2019-2022 batch		
Group	MPC	MECs	MPCs
No.of Students Appeared	5	13	20
No. of Students Passed	5	4	20
Pass Percentage(%)	100	31	100

DEPARTMENT OF PHYSICS&ELECTRONICS

PROFILE: 2018-2025

PVKN GOVT. DEGREE COLLEGE(A)

CHITTOOR

Year	III SEM-2019-2022 batch		
Group	MPC	MECs	MPCs
No.of Students Appeared	5	12	20
No. of Students Passed	5	11	20
Pass Percentage(%)	100	92	100

Year	IV SEM-2019-2022 batch		
Group	MPC	MECs	MPCs
No.of Students Appeared	5	10	20
No. of Students Passed	5	10	19
Pass Percentage(%)	100	100	95

Year	V SEM-2019-2022 batch					
Group	MPC		MPCs		MECs	
Paper	Paper-5	Paper-6	Paper-5	Paper-6	Paper-5	Paper-6
No.of Students Appeared	5	5	20	20	10	10
No. of Students Passed	5	5	20	20	10	10
Pass Percentage(%)	100	100	100	100	100	100

Year	VI SEM-2019-2022 batch		
Group	MPC	MPCs	MECs
Paper	OJT	OJT	OJT
No.of Students Appeared	5	20	10
No. of Students Passed	5	20	10
Pass Percentage(%)	100	100	100

2018-2021 Batch

Year	I SEM-2018-2021 batch	
Group	MPC	MPCs
No.of Students Appeared	6	17
No. of Students Passed	2	14
Pass Percentage(%)	33	82

Year	II SEM-2018-2021 batch	
Group	MPC	MPCs
No.of Students Appeared	6	14
No. of Students Passed	4	11
Pass Percentage(%)	67	79

Year	III SEM-2018-2021 batch		
Group	MPC	MECs	MPCs
No.of Students Appeared	5	11	14
No. of Students Passed	2	9	10
Pass Percentage(%)	40	82	71

Year	IV SEM-2018-2021 batch		
Group	MPC	MECs	MPCs
No.of Students Appeared	5	11	14
No. of Students Passed	5	4	12
Pass Percentage(%)	100	36	86

Year	V SEM-2018-2021 batch					
Group	MPC		MPCs		MECs	
Paper	Paper-6	Paper-7	Paper-6	Paper-7	Paper-6	Paper-7
No.of Students Appeared	5	5	14	14	9	9
No. of Students Passed	5	5	13	13	8	9
Pass Percentage(%)	100	100	93	93	89	100

Year	VI SEM-2018-2021 batch		
Group	MPC	MECs	MPCs
No.of Students Appeared	5	9	14
No. of Students Passed	5	7	14
Pass Percentage(%)	100	78	100

17. SSS analysis and Action Taken Report (Current Year):Maintained by IQAC

18. Research Activities

S.No.	Activity	2024-25	2023-24	2022-23	2021-22	2020-21	2019-20	2018-19
1	**Seminars conducted**							
2	**Webinars conducted**							
3	**Workshops conducted**	01		01				
4	**Capacity building programs conducted**	01(Induction programme)	01(Induction programme)	01(Induction programme)				
5	**IPR programs conducted**							
6	**MRP's completed**							
7	**INSPIRE conducted**							
8	**Extension programs conducted**	1	1	01	01			
9	**No. of MOU's**	06	06	04	2	1	1	1
10	**No. of Collaborations**	1(Melborn University)	1(Melborn university)	1(Melborn University)	1(Melborn University			
11	**Faculty Exchange Programs**	1	1	1	1	1		
12	**Student Exchange programs**			1	1	1		

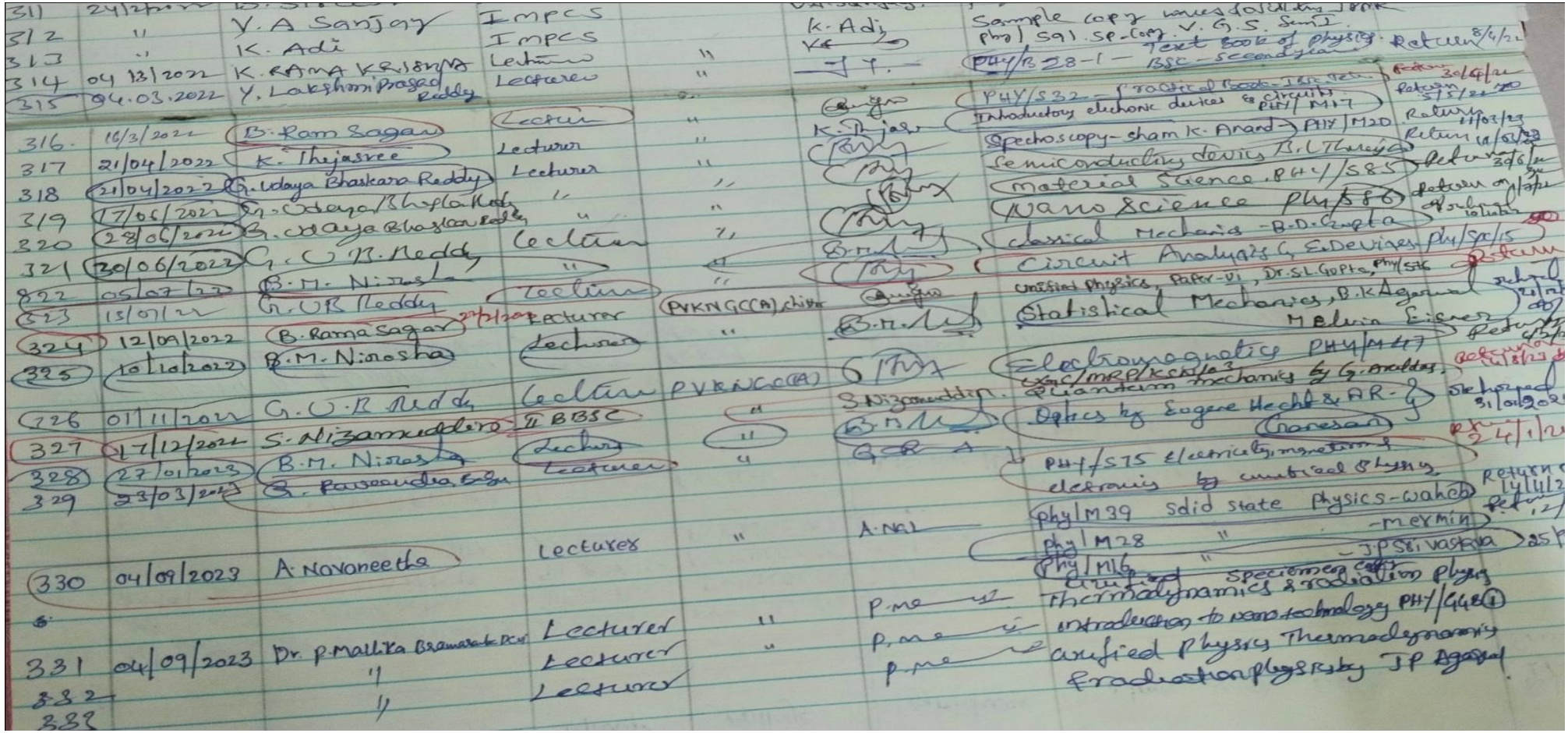
19.Research Publications

S.No.	Activity	2022-23	2021-22	2020-21	2019-20	2018-19
1	UGC care list Publications	02	--	----	01	03
2	Web science Publications	---	---	---	----	----
3	Scopus publications	----	----	3	6	3
4	Peer Reviewed	----	----	3	6	3
5	Conference publications	----	----	----	-----	-----
6	H – Index (Aggregate)		8			
7	Citations Index		**4**	**4**		
8	Books and Chapters Edited					
9	Research Guides					
10	Funds received for Research activities	-----				
	Total	**02**	**12**	**10**	**13**	**09**

20. Department Library Information

Record maintained in department of Physics& Electronics

Department Library Issue Register



21.Department Stock List and Infrastructure:

Department stock register maintained and verified by comitee in the month of march annually at the end of academic year.

22. Scholarships and free ships

Year	**2023-24**	**2022-23**	**2021-22**	**2020-21**	**2019-20**	**2018-19**
Number of students in the department	98	162	178	124	104	84
Govt. provide Scholarships	89	134	138	104	92	76
Institution provided Scholarships		==	==	==	==	==
NGO's provided Scholarships		==	==	==	==	==
Total		134	138	104	92	76
Percentage		82.71%	77.52%	83.87%	88.46%	90.47%

23. Student Progression and Career counselling details

Year	**2023-24**	**2022-23**	**2021-22**	**2020-21**	**2019-20**	**2018-19**
No. career counselling programs conducted	1	2	3	2	1	1
No. of Students get benefitted students	4	6	8	7	5	5
Percentage of benefitted students	62%	60%	80%	70%	50%	50%
No. of Competitive programs conducted	1	2	2	1	1	1
No. of Students get benefitted students	7	14	12	8	6	5
Percentage of benefitted students	100%	100%	80%	80%	60%	50%
No. of capacity building programs conduced		1	1	1	1	1
No. of Students get benefitted students		5	6	8	4	5
Percentage of benefitted students		100%	60%	80%	40%	90%

No. of outgoing students per year	63	51	37	19	36	29
Students Progression Number	7	39	24	13	23	18
Percentage of Progression rate	11%	76.4%	64.86%	68.42%	63.88%	62%
No. of students appeared for competitive exams	0	14	12	8	6	5
No. of students qualified in competitive exams	0	14	12	8	6	5
No. of students achieved Jobs in competitive exams	-	-	-	-	-	-

24. Sports and Games

P.Teja won 2nd place in university level 800 meters Running Competition

P Teja	**800mtrs running**	**16/12/2021**	**individual**	**inter university**	**silver**	Sri Venkateswara University
V Suvarna	**IX th Senior Interdistrict Soft Ball Champion Ship**	**30th June to 2nd July-2022**	**Team**	**Soft Ball Association & SAAP**	**Runnerup**	GDC, Srikakulam
V Suvarna	**XIX th South Zone Senior National Soft Ball Championship-2023**	**3rd March to 5th MArch-2023**	**Team**	**Soft Ball Association of India**	**Runnerup**	MIET Engineering College, Tiruchirapalli Dist


9th SENIOR INTER DISTRICT SOFT BALL CHAMPIONSHIP
MEN & WOMEN - 2022 - 23
Recognized By : Sports Authority of Andhra Pradesh
Affiliated to : Softball Association of Andhra Pradesh
Organised by : Softball Association of Srikakulam
Certificate
This is to Certify that Mr / Kum V. SUVARNA
S/o. D/o K. VENKATADRI Date of Birth of
District, Participated in the 9th Senior Inter District Softball Championship For Men & Women held at Arts College Ground, Srikakulam, Srikakulam District From 30th June 2022 to 02nd July 2022 as Player / Coach/ Manger/ Official.
POSITION : WINNERS / RUNNERS/ 3RD PLACE / PARTICIPATION


SOFTBALL ASSOCIATION OF INDIA
19TH SOUTH ZONE SENIOR NATIONAL SOFTBALL CHAMPIONSHIP - 2023
ORGANISED BY : TAMILNADU SOFTBALL ASSOCIATION
CONDUCTED BY : TIRUCHIRAPPALLI DISTRICT SOFTBALL ASSOCIATION
S.No:
CERTIFICATE
POSITION : WINNER / RUNNER UP / 3RD PLACE / PARTICIPATION

25. Alumni Register and contribution details

Register maintained in department level

Student Progression:

Name of student placed / enrolling into higher education and contact details	Placement/Progressed to Higher Education	Program graduated from	Name of the employer with contact details (in case of placement) / Name of institution joined (in case of progression to higher education)	Pay package at appointment (In INR per annum) (applicable for students who got placement) / Name of program admitted to (applicable for students who progressed to higher education)
2022-23	MCA-Master of Computer Applications, 3 (Physics) + 6(Electronics)	3- M.P.Cs & 6-M.E.Cs	1)SVCET, Chittoor, 2) SITAMS, Chittoor, 3) Viayam PG College, Chittoor.	
2021-22	Placement-3(PHYSICS), 1)Analyst-A3-V JAYA PRAKASH, 2)Trainee Software Engineer C++ - N.B.HARSHITH , 3)Constable-GD-Mahila(In Border Security)-T.ROJA	3-M.P.Cs	1.CAPGEMINI TECHNOLOGIES SERVICES INDIA LIMITED, MUMBAI-400708, MAHARASHTRA, INDIA-400708, WWW.capgemini.com/in-en 2. VECTONE INDIA MOBILE SERVICES PRIVATE LIMITED, CHENNAI-600032, 3.FRONTIER HQR BSF ODISSA @ BHUBANESWAR-	
	Placement-Wipro - Scholer Trainee Work Integrated Learning	1-M.E.Cs	WIPRO LIMITED, SARAPUR ROAD, BANGALORE-560035,	

	Programme-R.P..AJITH KUMAR		**Phone: 08028440011/12**	
	Higher Education: **1 (Electronics)**	**1-M.E.Cs**	**Vijayam PG College-Chittoor-517003.**	

26. Department Vision and Mission and Departmental Administrative polices

Vision

Conceiving by igniting and promoting enthusiasm in the study of physics &Electronics, and inculcate the proper knowledge of fundamentals of physics & Electronics, students are enabling to take up scientific temperament skills in their professional courses as a part of curriculum

Mission

- To provide a high standard of education in physics and electronics, equipping students for advanced studies in these fields and promoting their progression into professional courses.

27. RC/ OC/FDP/ ToT/ Other training Programmes Information

Year	**2022-23**	**2021-22**	**2020-21**	**2019-20**	**2018-19**
No. of programmes attended	13	12	18	03	02

28. Academic Audit Information

29. Academic Administrative Responsibilities Information

S.No	Name of the faculty	Responsibilities	Member/ convenor
1.	Dr.Mallika Bramaramba Devi	Department	Incharge
2.	Dr.Mallika Bramaramba Devi	Blended BSc	Coordinator
3.	Dr.Mallika Bramaramba Devi	Naac Criteria VII	convenor
4.	Dr.Mallika Bramaramba Devi	APSSDC	Coordinator
5.	Dr.Mallika Bramaramba Devi	NIRF	Coordinator
6.	Dr.Mallika Bramaramba Devi	Autonomous Examination committee	Member
7.	Dr.Mallika Bramaramba Devi	Additional Special fee Utilization Committee	Member
8.	Dr.Mallika Bramaramba Devi	Cental Purchase Committee	Member
9.	Dr.Mallika Bramaramba Devi	Digital Class room Committee	Convener
10.	Dr.Mallika Bramaramba Devi	JKC Placement Cell	Member
11.	Dr.Mallika Bramaramba Devi	UGC Committe	Member
12.	Dr.G.Sudhakar	PG Course committee	Member
13.	Dr.G.Udaya Bhaskara Reddy	NAAC/IQAC	Member
14.	Dr.G.Udaya Bhaskara Reddy	Academic and administrative	Member

		comittee	
15.	Sri.B.Ramasagar	Academic and administrative committee	Member
16.	Dr.K.Rama Krishna	Descipline	Member
17.	Dr.G.Sudhakar	State maintanceComitee	Member
18.	Sri.B.Ramasagar	Infrastructure Utilization committee-mana TV	convenor
19.	Dr.G.Udaya Bhaskara Reddy	Stationary committee	Member
20.	Dr.K.Rama Krishna	Examination committee	Member
21.	Dr.K.Rama Krishna	Library/Quiz club Committee	Member
22.	Dr.G.Sudhakar	Audio-Visual	convenor
23.	Sri.B.Ramasagar	Audio-Visual	Member
24.	**Dr.G.Sudhakar**	Endoment committee	Member
25.	**Dr.G.Sudhakar**	Examination committee	Member
26.	**Dr.Y.Lakshmi Prasad Reddy**	Research core committee	Member
27.	Sri.B.Ramasagar	RRC	Member
28.	Dr.G.Udaya Bhaskara Reddy	Helth club	Member
29.	Dr.G.Sudhakar	NIRF frame committee	Member
30.	G.Raveendra babu	Audio-Visual	Member
31.	G.Raveendra babu	Audio-Visual	Member
32.	Sri.B.Ramasagar	Website committeel	Member
33.	G.Raveendra babu	TLP	Member
34.	Sri.B.Ramasagar	Field trip/ Project	Member
35.	G.Raveendra babu	RRC / YRC	Member
36.	G.Raveendra babu	E-Waste management	Member
37.	G.Raveendra babu	Bridge Cource management	Convenor
38.	Dr.G.Sudhakar	Best Practice Comitteee	Member
39.	Sri.B.Ramasagar	Result Analysis	Member
40.	Dr.G.Sudhakar	Competative Examinations Committee	Member
41.	Dr.G.Udaya Bhaskara Reddy	Yuva tourism Club Committee	Member
42.	Smt. A. Navaneetha	Scholorship committee	Member
	Dr.G.Udaya Bhaskara Reddy	SVU Examinations Committee	Member
	G.Raveendra babu	Admission committee	Convenor
	Smt. A. Navaneetha	Women Hostel Maintanance	Member

30. Gender Equity Programmes and Days to be celebrated Information

S.No.	Date	Activity
1.	2018-2019	https://drive.google.com/file/d/1hWmciQrjcGY9-bvHIK7VRXx6F9WPVUV2/view?usp=sharing
2.	2019-2020	https://drive.google.com/file/d/1uEPUUhP6vDAX4AK1Go2DZJ6k24W_-QN1/view?usp=sharing

3.	2020-2021	https://docs.google.com/document/d/1dE-eiGH3X5YkjIryl4ec5H4CK6x5siz2/edit?usp=sharing&ouid=104732046595996700001&rtpof=true&sd=true
4.	04-12-2021	Guest lecture by Sri V.Veeraiah-Career Guidance
5.	25-02-2022	District level Essay writing and Elecution
6.	28-02-2022	National science day
7.	04-03-2022	Industry Interaction and MOU With Sai Ram's innomations India private Ltd
8.	24th to 26 March 2022	Students' induction programme (MOU)
9.	25-3-2022	Awareness Programme Electronic Industrial Project (MOU)
10.	31-03-2022	Field visit to Agastya International foundation Science Center-Kuppam
11.	28-04-2022	Industrial Visit to Sai Ram Innomations-Tirupati(MOU)
12.	15-18,june 2022	Green energy-Solar plant-field visit and training progrrame (MOU)
13.	01-07-2022	Guest Lecturer On applications of Physics by Dr.B.Anna Purna Sarada,Principal GDC,Vedurukuppam
14.	15-07-2022	Staff Council Meeting
15.	21-07-2022	Educational tour to IISER-Tirupati
16.	03-08-2022	Blood Donation Camp On eve of 15days ceremony of 75thIndependance Day
17.	25-08-2022	Swatchh Barath Programme-Clean and Green
18	25&26 Aug 2022	Make a difference 2022/SITAM Science Fare UTESAV2022-Young scientist and Innovation
19	05-09-2022	Guest Lecture on Evolution of Modern Physics & its applications by Dr.S.Nisar Ahmed,Professor,Usmania College,Karnul
20.	08-02-2023	Guest Lecture by **Dr. T. SUHASINI**, Lecturer, Department of Physics, **GDC, Nagari, Chittoor** on the **"Advances in Spectroscopy and its applications totheSociety in various fields"**
21.	23.2.2023	Workshop on "Industrial Automation with Zebra Aurora Vision Software"
22.	28-02-2023	National science day

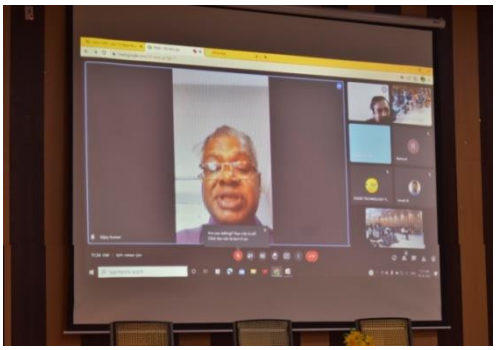
National Science day

The Department of Physics and Electronics conducted National Science Day on 28.02.2022 in memory of Sir C.V. Raman's "Raman Effect".**Prof.K.B.Kumar**, Ex-Chairman, CSTT, MHRD, Dept.

of Higher Education, and **Prof. Samrat L Sabat,** Dept. of Electronic Science & Physics, HCU, Hyderabad are attended as Chief guests.

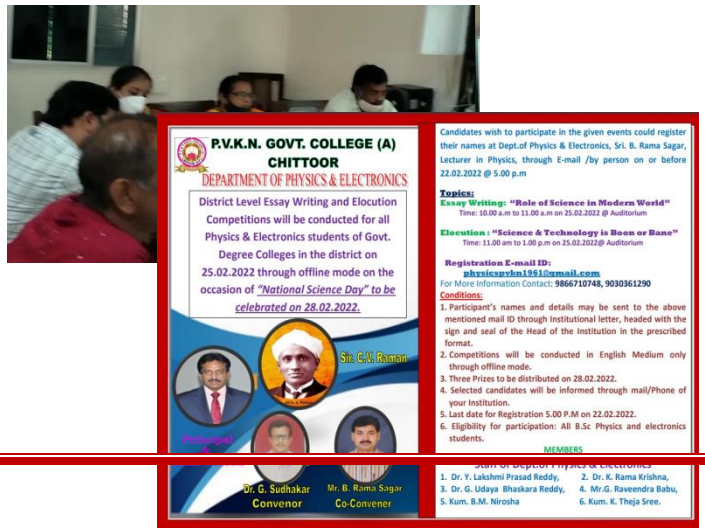
Prof. K. B. Kumar delivered beautiful lecture about applications of science in future life and he enlightened the students and enriched their calibre and goal of students having high attitude through his speeches.

Prof. Samrat L Sabat beautifully impressed the students through his presentation on Raman Effect and its applications in the society.



Brief Report on "Distric Level Essay Writing and Elocution Competition" conducted on 25.02.2022

The Department of Physics and Electronics conducted **"District Level Essay Writing and Elocution Competition"** on 25.02.2022 for the Occasion of National Science Day to be celebrated on 28.02.2022. In this events nearly 50 students are participated and six members are got Prizes . All the participant students are appreciated with certificates and First Prize winners are received Rs. 1000/- cash prize , Second Prize winners got Rs. 600/- Third prize was awarded with Rs.400/- cash prize in each event.



DEPARTMENT OF PHYSICS&ELECTRONICS
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Lecturer In charge, Department of Physics and Electronics, **Dr. G. Sudhakar**, Introduced the Chief Guest to the students with the permission of the Principal, **Dr. G. Ananda Reddy,** President of the Programme.

Dr. V. Sudhakar Reddy, addressed and enlightened the students on the on goingelectronic real time projects in the industry.

<u>Department of Physics & Electronics</u>
<u>Brief Report</u>

24-26, March 2022 Students Induction program

2nd Day (25.03.2022)

Industrial Interaction by Dr. V. Sudhakar Reddy Managing Director, Sai Ram's Innomations India Private Ltd. Tirupathi

Dr. G. Ananda Reddy Garu, Principal and President of the Program, presided over the function.

Dr, G, Sudhakar, Incharge, Department of Physics and Electronics,introduced the ChiefGuest **Dr. V. Sudhakar Reddy** Garu**,** Managing Director, Sai Ram'sInnomation's India Pvt. Ltd,. To the stake holders and said that the guest is ready to share his expertise of 30 + years of Industrial Experience with the students of PVKN GC(A), Chittoor in developing their skill to satisfy the day-to-day life needs and satisfy the needs of the society.

Live Interaction of the Guest with the students and the Staff.

కొత్త ఐడియాలతో స్టార్టప్ లను రూపొందించాలి

చిత్తూరు వియన్ కెవార్త:కొత్త ఐడియాలకు దేశంలో కొదవలేదని, కానీ నేటితరం విద్యార్థులు తమ ఐడియాలను వాస్తవ రూపం దాల్చేలాస్టార్టప్ లను నిర్మించి, ప్రపంచ అవసరాలు తీర్చాలని సాయిరామ్ ఇన్నోవేషన్స్ మేనేజింగ్ డైరెక్టర్ డా. వి.సుధాకర్ రెడ్డి అన్నారు.విద్యతో పాటు స్కిల్ వుంటేనేనమాజంలో రాణించా గల్లుతారని,అందుకు అనుగుణంగా ప్రణాళికాబద్ధంగా విద్యనభ్యసిం చాలనినూచించారు. విద్యార్థులు ఉద్యోగం ఇచ్చే స్థాయికి ఎదగాలని,అందుకు అనుగుణంగా ప్రణాళికాబద్ధంగా విద్యనభ్యసించాలని సూచించారు. విద్యార్థులు ఉద్యోగం ఇచ్చేస్థాయికి ఎదగాలనిఅంతర్జాతీయంగా అత్యుత్తమ ప్రమాణాలు నెలకొల్పగలిగే ప్రపంచస్థాయి ఉత్పత్తులను రూపొందించాలని ఆయనకోరారు.పి. వి.యన్. ప్రభుత్వ కళాశాలలో యుజిసి స్టూడెంట్ ఇండక్షన్ప్రోగ్రామ్ రెండవ రోజు సదస్సుల్లో పాల్గొన్న సందర్భంగాఆయన ఈ విషయాలు

తెలిపారు. విద్యార్థులు లక్ష్యసాధన కోసంనిరంతరం కృషి చేయాలని సూచించారు. పెద్ద కలలు,అసాధారణమనకునేలక్ష్యాలు, సరైన వ్యక్తులు, సరైన నాయకత్వంతోనే దేశం అభివృద్ధి చెందుతుందని అభిప్రాయపడ్డారు.సభకు అధ్యక్షత వహించిన కళాశాల ప్రిన్సిపాల్ డా.జి. ఆనందరెడ్డి మాట్లాడుతూ స్వామివివేకానందతనమాటతీరుతోనే ప్రపంచ ప్రజలను ఆకట్టుకున్నారన్నారు.రానున్న దశాబ్దాల్లో అపార అవకాశాలను సొంతం చేసుకునేందుకు, భవిష్యత్తు వృద్ధికి పునాదులు వేయాల్సిన సమయంవిద్యార్థి దశేనని తెలిపారు. ఉన్నత విద్యలో అంతర్జాతీయప్రమాణాలతో కూడిన విద్యను పివికెయన్ విద్యార్థులకు అందించాలనే సంకల్పంతో అధ్యాపకులు పనిచేస్తున్నారని ఆయన కితాబునిచ్చారు.పి.వి.యన్. కళాశాల పూర్వ ప్రధాన అధ్యాపకులుడా. ఆదినారాయణరెడ్డిమాట్లాడుతూకమ్యూనికేషన్, పబ్లిక్ రిలేషన్ తో పాటు అన్నిరంగాల్లో విద్యార్థులు పేరు తెచ్చుకోవాలన్నారు.యుజిసి, అకడమిక్ కో ఆర్డినేటర్ డా. మోహన్ బెహ్రా,యన్. ని.ని. కోఆర్డినేటర్ ఏ. రమేష్ ఈ కార్యక్రమాన్ని పర్యవేక్షించారు.ఈ సదస్సుకు అధ్యాపకులు,విద్యార్థులు పాల్గొన్నారు.

EDUCATIONAL TOUR TO

AGASTYA INTERNATIONAL FOUNDATION, KUPPAM
BY II-M.Sc. PHYSICS STUDENTS

1. INTRODUCTION

DEPARTMENT OF PHYSICS&ELECTRONICS
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Agastya international foundation is an Indian educational trust and non-profit organization whose headquarters located at Bangalore, was founded by Late K.V.Raghavan, former chairman of the Indian atomic energy commission. The 172 acred mother campus is located at Gudivanka campus, Kuppam. Agastya has sub campus at around 21 states of India. The main theme of Agastya mission is to spark curiosity, nurture curiosity and build confidence among students all over India. We almost reached the main campus by **10 AM on 31st of March 2022**. We were welcomed by Mr.S.J. Naresh Babu sir who acted as a guide to us for the whole day. We also had an interaction with Mr.Kumar sir during the 1st half of our morning session.

We visited this creative campus havingnearly 30 labs like Discovery center, Astronomical center,Innovation hub, Physics lab, Robotics lab etc. Among 30 labs 8 labs like Creative corner, Art Lab etc., is open for students to enhance creativity. The campus is also called creative campus because of two reasons. The first is, all the constructions made here are creative, one example we would like to quote is, the auditorium is constructed without pillars or cement material but just with the stones gives the shape of **"Dung Beetle"**. The second is, they enhance and bring the creativity out of students. We have seen many creative works done by students around the campus with the help of scrap. During normal days the entire campus will be flooded with nearly 600 students and above. There are almost 250 faculties working at this campus with 100 more helpers, who keep the campus clean and green.

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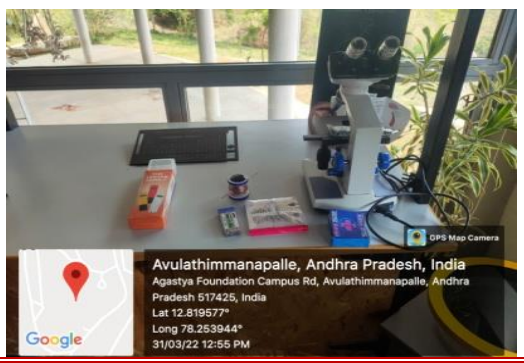

IISER VISIT ON 28-04-2022

PROCEEDINGS OF THE PRINCIPAL: PVKN GOVT. COLLEGE(A), CHITTOOR

PRESENT: Dr. G. ANANDA REDDY, M.Com., Ph.D.

Rc. No. 123 /Estt. / 2021, dt: 27-04-2022

Sub:- PVKN. Govt. College(A), Chittoor – Department of Physics – Industry Academic Exchange – Visit of staff and Students to Sai-Ram's Innomations, Tirupati on 28-04-2022 Relief orders Issued – Regarding.

Ref:- Letter, dt: 27-04-2022 from the Manager, Sai-Ram's Innomations, Tirupati.

** *** **

ORDER

With reference to the subject and reference cited, the following staff members in department of Physics of this college are hereby relieved from their duties on the AN of 27-04-2022 to visit the industry of Sai-Ram's Innomations, Tirupati as Industry Academic Exchange as a part of course curriculum on 28-04-2022 along with UG and PG students..

Faculty members

1. Dr. G. Sudhakar,
2. Dr. G. Udaya Bhaskara Reddy
3. Dr. Y. Lakshmi Prasad Reddy
4. Sri B. Rama Sagar
5. Miss. B.M. Nirosha

Student List

1. Velu Balaji
2. C.S. Hemambika
3. D. Shahida
4. P. Gowri
5. S. Abdulgani
6. S. Purushotham
7. D. Siddartha
8. T. Harish
9. B. Revathi
10. G. Sravya
11. K.A. Jafar Sadiq
12. R. Kaashyap Mithra
13. T. Sagar
14. K. Sunil Kumar
15. S.K. Chamundi
16. P. Alekhya
17. K. Venkataramanaiah
18. N. Mounika
19. D. Hemavathy
20. B. Vennela

Further, the above faculty members are instructed to attend the above said programme and submit the compliance to the Principal.

PRINCIPAL
P.V.K.N. GOVT. COLLEGE
CHITTOOR

Copy to the in-charge, Department of Physics.
Copy to file.

Dr. V. Sudhakar Reddy, Managing Director of Sai Ram's Innomations India Pvt Ltd, Tirupathi, enlightening the students of UG and PG on revolutionary developments and opportunities in the field of Science and Technology

Online information on the student projects by Industrial experts from Hyderabad atSai Ram's Innomations India Pvt Ltd, Tirupathi.

Students getting expertise knowledge on 3D printing machine and Drone running through microcontrollers and microprocessors.

Students getting expertise knowledge on Digital ID card with sensors printing machine running through microcontrollers and microprocessors.

Department of Physics and Electronics organized a Guest Lecture by **Dr.T. SUHASINI**, Lecturer, Department of Physics, **GDC, Nagari, Chittoor** on the **"Advances in Spectroscopy and its applications to the Society in various fields"** on during 8.2.2023 in the Digital Classroom. All the Staff and 38 students got benefited with broad exposure of analytical spectroscopic instruments in various fields and their applications to the society.

NATIONAL SCIENCE DAY, 28th Feb-2023"

National Science Day with theme as "Global Science for Global Wellbeing" is celebrated in the college campus under IQAC. In this regard all Science departments planned to organize exhibition on projects developed by the students. 61 Projects were exhibited. Department of Physics and Electronics students participated with 5 projects.

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Workshopon"Industrial Automation with Zebra Aurora Vision Software"

Department of Physics and Electronics organized a the workshop on **" Industrial Automation with Zebra Aurora Vision Software"**in **Cyber Cafe Hall** of our College in strong association with **Sai Ram's Innomations India Pvt. Ltd, Tirupathi**. Principal of our College Dr. G. Ananda Reddy and **Managing Director** of Sai Ram's Innomations,

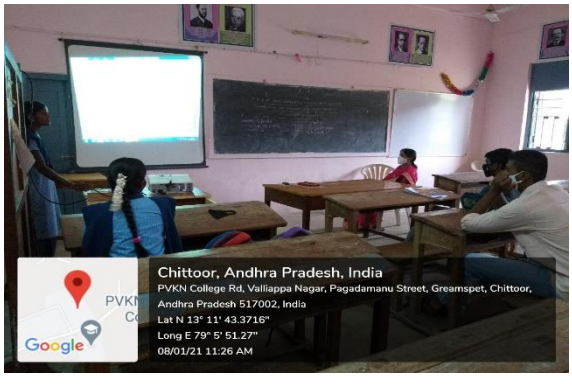
Sri V. Sudhakar Reddy along with staff of our Department and Industrial Coordinator, Dr.MohanoBehra discussed to upgrade the skill and industrial bonding of the students.

In this connection our principal suggested to organise a workshop on of IndustryAutomation with the Industrial Professionals in and around Chittoor District on 23.2.2023.

We invited industry association of Chittoor District and DM of APSSDC for fruitful interaction in the workshop.

STUDENT SEMINAR – 08.01.2021
Name of the student:G. AVATHI, III B. Sc (M.P. Cs)

Semester V – Paper V – PN junction diode
Number of students participated: 09



STUDENT SEMINAR – 09.01.2021
Name of the student:N. JAYAPRATAP, III B. Sc (M.P. Cs)
Semester V – Paper V – De-Morgan's theorems
Number of students participated: 08

Seminar given by S. Vinodhini, II B.Sc., (M.P.Cs) on "Chromatic aberration" (31.12.2020)

DEPARTMENT OF PHYSICS AND ELECTRONICS
DEPARTMENTAL ACTIVITIES (2020-21)
ACADEMIC ACTIVITIES- STUDENT SEMINARS
Guide teacher: Dr B.Annapurnasarada, Reader in Physics

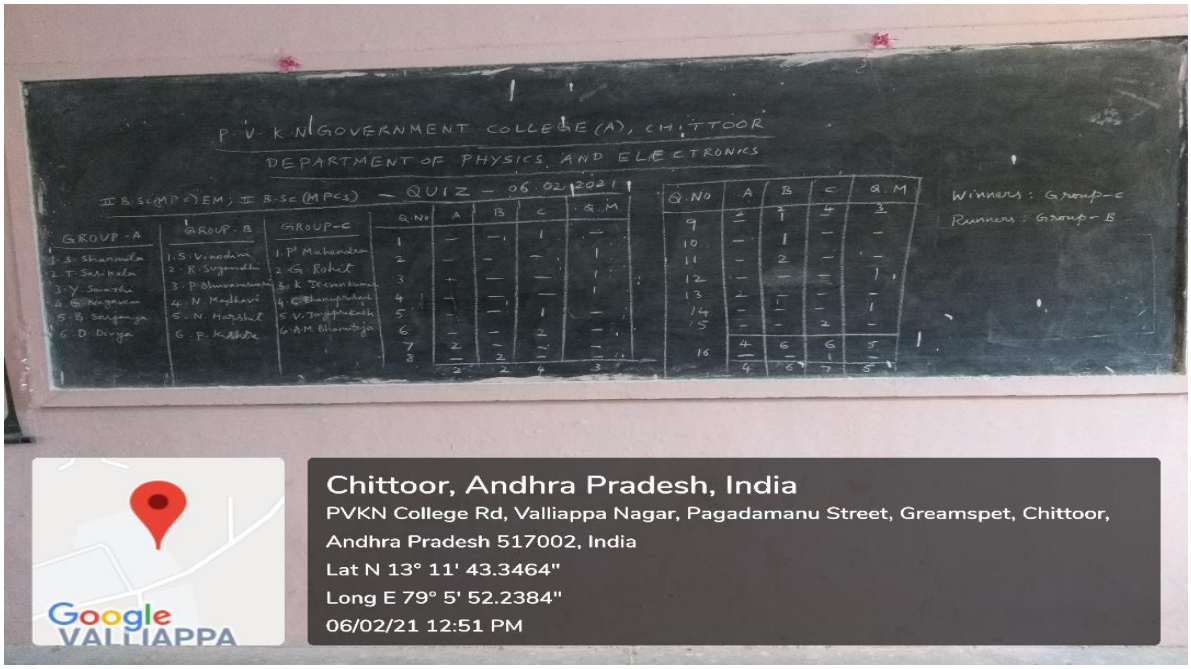
S.NO	CLASS & SEMESTER	DATE	NAME OF THE STUDENT	TOPIC
1	III B.SC- Semester V Physics-Paper V Electricity, Magnetism and Electronics	08.01.2021	G.Avathi III B.SC (M.P.CS)	PN junction diode.
2	III B.SC- Semester V- Paper V Electricity, Magnetism and Electronics	09.01.2021	N. Jayapratap III B.SC (M.P.CS)	De- Morgan's theorems.
3	II B.SC- Semester III Physics -Paper III - OPTICS	29.01.2021	T.Roja II B.SC(M.P.CS)	Spherical aberration
4	II B.SC- Semester III Physics -Paper III – OPTICS	29.01.2021	N.Harshit II B.SC(M.P.CS)	Newton's rings
5	II B.SC- Semester III Physics -Paper III – OPTICS	29.01.2021	P.Kishore II B.SC(M.P.CS)	Quarter wave plate & Half wave plate
6	II B.SC- Semester III Physics -Paper III - OPTICS	31.01.2021	P.Mahendra II B.SC(M.P.C)E.M	Comatic aberration
7	II B.SC- Semester III Physics -Paper III - OPTICS	31.01.2021	S.Vinodini II B.SC(M.P.CS)	Chromatic aberration
8	II B.SC- Semester III Physics -Paper III - OPTICS	31.01.2021	R.Sugandhi II B.SC(M.P.CS)	Wedge method
9	II B.SC- Semester III Physics -Paper III - OPTICS	04.02.2021	C.Bhanuprasad II B.SC(M.P.CS)	Fresnel's biprism
10	II B.SC- Semester III Physics -Paper III - OPTICS	04.02.2021	G.Nagaveni II B.SC(M.P.CS)	Types of aberrations
11	II B.SC- Semester III Physics -Paper III - OPTICS	04.02.2021	G.Rohit II B.SC(M.P.CS)	Grating
12	II B.SC- Semester III	04.02.2021	S.Sharmila	Malus law

	Physics -Paper III - OPTICS		II B.SC(M.P.CS)	
13	II B.SC- Semester III Physics -Paper III - OPTICS	05.02.2021	N.Madhavi II B.SC(M.P.CS)	Distortion
14	II B.SC- Semester III Physics -Paper III - OPTICS	05.02.2021	Y.Swathi II B.SC(M.P.CS)	Achromatism
15	II B.SC- Semester III Physics -Paper III – OPTICS	05.02.2021	T.Sasikala II B.SC(M.P.CS)	Brewster's law
16	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	G.Avathi III B.SC(M.P.CS)	Alloys
17	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	N.Jayapratap III B.SC(M.P.CS)	Applications of nanotechnology
18	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	K.V.Haritha III B.SC(M.P.CS)	Applications of polymers
19	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	O.Venkatachalapathi III B.SC(M.P.CS)	Preparation of nonmaterial
20	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	P.Jagadeesh III B.SC(M.P.CS)	Polymers
21	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	O.Narendrababu III B.SC(M.P.CS)	Ferromagnetism
22	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	C.Dileep III B.SC(M.P.CS)	Classification of materials
23	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	R. Abdulrahaman III B.SC(M.P.CS)	Semiconductors
24	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	S. Babubasha III B.SC(M.P.CS)	Nanomaterials
25	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	22.07.2021 (Online)	T. Roja II B.SC(M.P.CS)	Maxwell's thermodynamic relations
26	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	22.07.2021 (Online)	N. Harshit II B.SC(M.P.CS)	Heat and cold pumps
27	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	22.07.2021 (Online)	C. Bhanuprasad II B.SC(M.P.CS)	Working of jet engine

28	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	22.07.2021 (Online)	K. Jeevankumar II B.SC(M.P.CS)	Working of airconditioner
29	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	22.07.2021 (Online)	P. Kishore II B.SC(M.P.CS)	Working of refrigerator
30	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	23.07.2021 (Online)	S. Vinidhini II B.SC(M.P.CS)	Joule-Thomson effect
31	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	24.07.2021 (Online)	D. Divya II B.SC(M.P.CS)	Adiabatic process
32	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	24.07.2021 (Online)	S. Sharmila II B.SC(M.P.CS)	Liquefaction of Helium
33	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	24.07.2021 (Online)	R. Sugandhi II B.SC(M.P.CS)	Depletion of Ozone layer
34	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	27.07.2021 (Online)	G. Nagaveni II B.SC(M.P.CS)	Entropy
35	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	27.07.2021 (Online)	T. Sasikala II B.SC(M.P.CS)	Joule-Kelvin effect
36	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	28.07.2021 (Online)	B. Soujanya II B.SC(M.P.CS)	Mean free path
37	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	28.07.2021 (Online)	Y. Swathi II B.SC(M.P.CS)	Transport phenomena
38	I B.SC- Semester I Physics -Paper I – Mechanics, Waves and Oscillations	28.07.2021 (Online)	S. Ramya I B.SC(M.P.C) E.M	Galilean transformations
39	I B.SC- Semester I Physics -Paper I – Mechanics, Waves and Oscillations	28.07.2021 (Online)	G. Abitha II B.SC(M.P.C) E.M	Motion of a rocket
40	I B.SC- Semester I Physics -Paper I – Mechanics, Waves and Oscillations	28.07.2021 (Online)	R. Nandini II B.SC(M.P.C) E.M	Kepler's laws
41	I B.SC- Semester I Physics -Paper I – Mechanics, Waves and Oscillations	28.07.2021 (Online)	R. Soniya II B.SC(M.P.C) E.M	Simple oscillator
42	I B.SC- Semester I	28.07.2021	V. Suvarna	Central forces

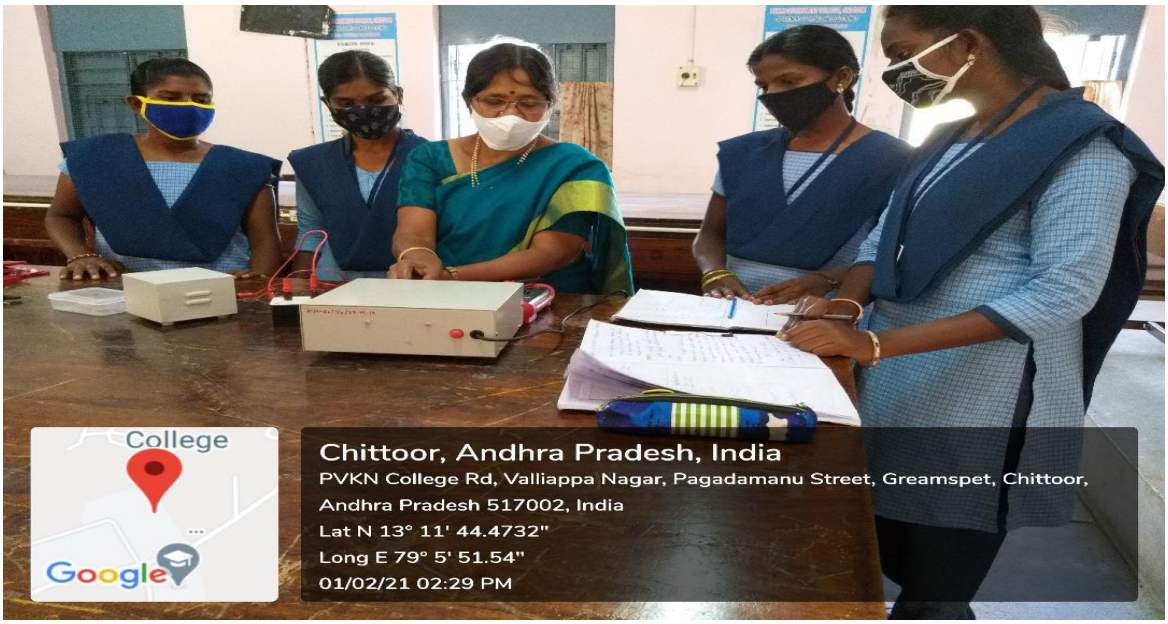
	Physics -Paper I – Mechanics, Waves and Oscillations	(Online)	II B.SC(M.P.C) E.M	
43	I B.SC- Semester I Physics -Paper I – Mechanics, Waves and Oscillations	28.07.2021 (Online)	T. Sowmya II B.SC(M.P.C) E.M	Ultrasonics

ACADEMIC ACTIVITIES - QUIZ – 06.02.2021
II B.Sc., Semester III – Physics - Paper III
Topic: OPTICS
Quiz master: Dr B. Annapurna sarada, Reader inphysics.



NON-ACADEMIC ACTIVITIES (08.01.2021)

Dr B.Annapurnasarada, Reader in Physics acts as a judge in Rangoli competitions conducted in the college on 08.01.2021



Dr B. Annapurna sarada, Reader in Physics demonstrating the experiment "LCR series circuit-frequency response"

K. Venkatadri, Contract Lecturer in Physics demonstrating the process of soldering to III B.SC students

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Dr B. Annapurna sarada, Reader in Physics demonstrating the experiment "Dispersive power of the prism"

T. Raghuraman, Lecturer in Physics demonstrating the experiment "Newton's rings"

S,NO	SEMESTER & PAPER	TITLE OF THE PROJECT	NAMES OF THE STUDENTS	CLASS & GROUP
1	III B.SC-Semester V Paper V Electricity, Magnetism and Electronics	Faraday's laws of Electromagnetic Induction – Applications	1.N.Jayapratap 2.B.Hareesh 3.C.Vikram 4.C.Dileep 5.O.Narendrababu	III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs)
2	III B.SC-Semester V Paper V Electricity, Magnetism and Electronics	Transformers in daily life	1.S.Govardhan 2.C.Praveen 3.G.Geethanjali 4.A.Sireesha 5.P.Madhusudhan	III B.Sc(M.P.C)E.M III B.Sc(M.P.C)E.M III B.Sc(M.P.C)E.M III B.Sc(M.P.C)E.M III B.Sc(M.P.C)E.M
3	III B.SC-Semester V Paper V Electricity,	Universal gates – Applications	1.G.Avathi 2.K.V.Haritha	III B.Sc(M.P.Cs) III B.Sc(M.P.Cs)

	Magnetism and Electronics			
4	III B.SC-Semester V Paper V Electricity, Magnetism and Electronics	LCR circuits – Applications	1.O.Venkatachalapathi 2.S.Babubasha 3.P.Jagadeesh 4.R.Abdul Rahaman 5.S.Chandbasha 6.T.Ajay	III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs)
5	II B.SC- Semester III Paper III (OPTICS)	POLARISATION – APPLICATIONS	1.P.Mahendra 2.G. Rohit 3.P.Yugandhar 4.R. Vijay 5.S. Charanteja	II B.SC(M.P.C)E.M II B.SC(M.P.Cs) II B.SC(M.P.Cs) II B.SC(M.P.Cs) II B.SC(M.P.C)E.M
6	II B.SC- Semester III Paper III (OPTICS)	LASERS – APPLICATIONS	1.A.M.Bhanuteja 2. V. Jayaprakash 3.P.Ganesh	II B.SC(M.P.Cs) II B.SC(M.P.Cs) II B.SC(M.P.Cs)
7	II B.SC- Semester III Paper III (OPTICS)	HOLOGRAPHY – APPLICATIONS	1.T. Roja 2.R. Sugandhi 3.S. Vinodini 4. S. Sharmila	II B.SC(M.P.Cs) II B.SC(M.P.Cs) II B.SC(M.P.Cs) II B.SC(M.P.Cs)
8	II B.SC- Semester III Paper III (OPTICS)	OPTICAL FIBRES – APPLICATIONS	1.N. Harshit 2. P. Kishore 3. C. Bhanuprasad 4. K. Jeevankumar	II B.Sc(M.P.Cs) II B.Sc(M.P.Cs) II B.Sc(M.P.Cs) II B.Sc(M.P.Cs)
9	II B.SC- Semester III Paper III (OPTICS)	DIFFRACTION – APPLICATIONS	1.G.Nagaveni 2.T.Sasikala 3.Y.Swathi 4.K.Radha	II B.Sc(M.P.Cs) II B.Sc(M.P.Cs) II B.Sc(M.P.Cs) II B.Sc(M.P.C)E.M
10	III B.S –Semester VI Paper VIIB Materials science	Applications of nanotechnology	N. Jayapratap	III B.SC (M.P.CS)
11	III B.S –Semester VI Paper VIIB Materials science	Applications of Polymers	1.G. Avathi 2.K.V.Haritha	III B.SC (M.P.CS) III B.SC (M.P.CS)
12	II B.S – Semester IV Paper IV Heat and Thermodynamics	Depletion of Ozone layer	1.T.Roja 2.S.Vinodhini 3.S.Sharmila 4.R.Sugandhi	II B.SC (M.P.CS) II B.SC (M.P.CS) II B.SC (M.P.CS) II B.SC (M.P.CS)
13	II B.S – Semester	Applications of	1.N.Harshit	II B.SC (M.P.CS)

	IV Paper IV Heat and Thermodynamics	Carnot's engine	2.C.Bhanuprasad 3.K.Jeevankumar 4.P.Kishore	II B.SC (M.P.CS) II B.SC (M.P.CS) II B.SC (M.P.CS)
14	I B.SC- Semester I Paper I Mechanics, Waves and Oscillations	Gyroscope	1.S.Ramya 2.R.Soniya 3.V.Suvarna 4.D.Muni	I B.SC (M.P.C)E.M I B.SC (M.P.C)E.M I B.SC (M.P.C)E.M I B.SC (M.P.C)E.M
15	I B.SC- Semester I Paper I Mechanics, Waves and Oscillations	Ultrasonics	1.G. Abhitha 2.U.Bhudevi 3.K.Govardhansai 4.T.Mahadeva	I B.SC (M.P.C)E.M I B.SC (M.P.C)E.M I B.SC (M.P.C)E.M I B.SC (M.P.C)E.M

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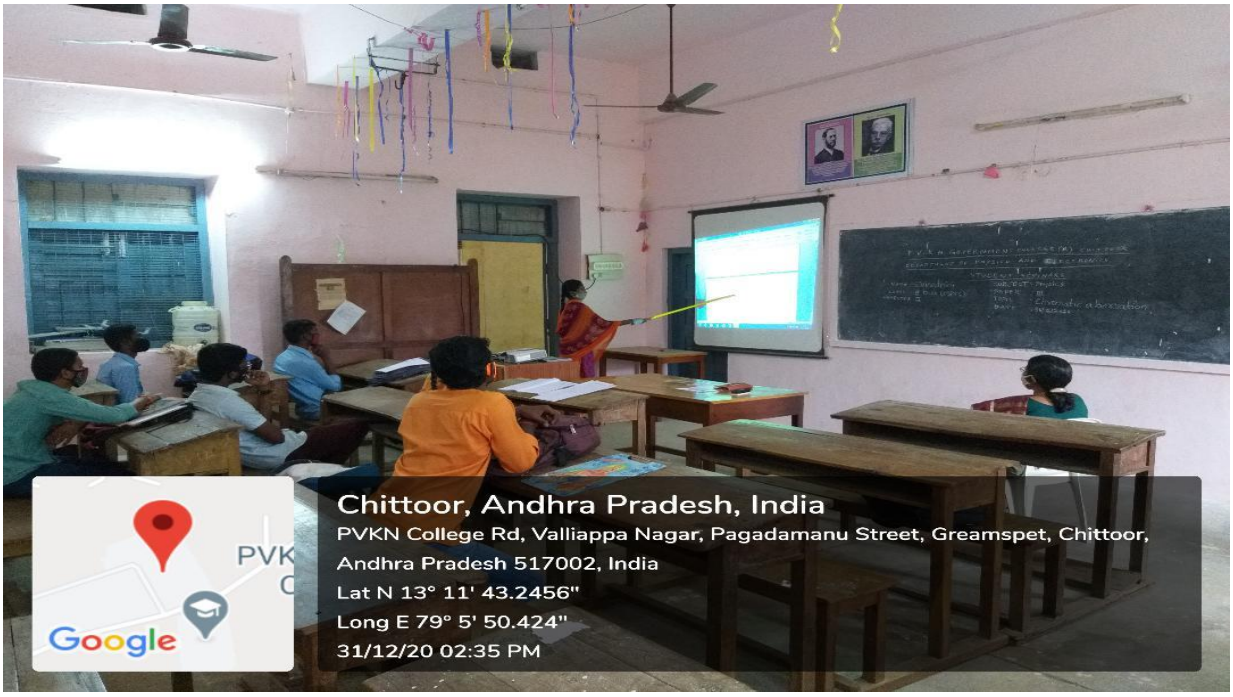
Seminar given by S. Vinodhini , II B.Sc (M.P.Cs) on "Chromatic aberration" (31.12.2020)



ACADEMIC ACTIVITIES- STUDENT SEMINARS
Guide teacher: Dr B.Annapurna sarada, Reader in Physics

S.NO	CLASS & SEMESTER	DATE	NAME OF THE STUDENT	TOPIC
1	III B.SC- Semester V Physics-Paper V Electricity, Magnetism and Electronics	08.01.2021	G.Avathi III B.SC (M.P.CS)	PN junction diode.
2	III B.SC- Semester V- Paper V Electricity, Magnetism and Electronics	09.01.2021	N. Jayapratap III B.SC (M.P.CS)	De- Morgan's theorems.
3	II B.SC- Semester III Physics -Paper III - OPTICS	29.01.2021	T.Roja II B.SC(M.P.CS)	Spherical aberration
4	II B.SC- Semester III Physics -Paper III – OPTICS	29.01.2021	N.Harshit II B.SC(M.P.CS)	Newton's rings
5	II B.SC- Semester III Physics -Paper III – OPTICS	29.01.2021	P.Kishore II B.SC(M.P.CS)	Quarter wave plate & Half wave plate
6	II B.SC- Semester III Physics -Paper III - OPTICS	31.01.2021	P.Mahendra II B.SC(M.P.C)E.M	Comatic aberration
7	II B.SC- Semester III Physics -Paper III - OPTICS	31.01.2021	S.Vinodini II B.SC(M.P.CS)	Chromatic aberration

8	II B.SC- Semester III Physics -Paper III - OPTICS	31.01.2021	R.Sugandhi II B.SC(M.P.CS)	Wedge method
9	II B.SC- Semester III Physics -Paper III - OPTICS	04.02.2021	C.Bhanuprasad II B.SC(M.P.CS)	Fresnel's biprism
10	II B.SC- Semester III Physics -Paper III - OPTICS	04.02.2021	G.Nagaveni II B.SC(M.P.CS)	Types of aberrations
11	II B.SC- Semester III Physics -Paper III - OPTICS	04.02.2021	G.Rohit II B.SC(M.P.CS)	Grating
12	II B.SC- Semester III Physics -Paper III - OPTICS	04.02.2021	S.Sharmila II B.SC(M.P.CS)	Malus law
13	II B.SC- Semester III Physics -Paper III - OPTICS	05.02.2021	N.Madhavi II B.SC(M.P.CS)	Distortion
14	II B.SC- Semester III Physics -Paper III - OPTICS	05.02.2021	Y.Swathi II B.SC(M.P.CS)	Achromatism
15	II B.SC- Semester III Physics -Paper III – OPTICS	05.02.2021	T.Sasikala II B.SC(M.P.CS)	Brewster's law
16	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	G.Avathi III B.SC(M.P.CS)	Alloys
17	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	N.Jayapratap III B.SC(M.P.CS)	Applications of nanotechnology
18	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	K.V.Haritha III B.SC(M.P.CS)	Applications of polymers
19	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	O.Venkatachalapathi III B.SC(M.P.CS)	Preparation of nonmaterial
20	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	P.Jagadeesh III B.SC(M.P.CS)	Polymers
21	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	O.Narendrababu III B.SC(M.P.CS)	Ferromagnetism
22	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	C.Dileep III B.SC(M.P.CS)	Classification of materials
23	III B.SC- Semester VI Physics- Paper VIIB	26.07.2021 (Online)	R. Abdulrahaman III B.SC(M.P.CS)	Semiconductors

	Materials science			
24	III B.SC- Semester VI Physics- Paper VIIB Materials science	26.07.2021 (Online)	S. Babubasha III B.SC(M.P.CS)	Nanomaterials
25	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	22.07.2021 (Online)	T. Roja II B.SC(M.P.CS)	Maxwell's thermodynamic relations
26	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	22.07.2021 (Online)	N. Harshit II B.SC(M.P.CS)	Heat and cold pumps
27	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	22.07.2021 (Online)	C. Bhanuprasad II B.SC(M.P.CS)	Working of jet engine
28	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	22.07.2021 (Online)	K. Jeevankumar II B.SC(M.P.CS)	Working of airconditioner
29	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	22.07.2021 (Online)	P. Kishore II B.SC(M.P.CS)	Working of refrigerator
30	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	23.07.2021 (Online)	S. Vinidhini II B.SC(M.P.CS)	Joule-Thomson effect
31	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	24.07.2021 (Online)	D. Divya II B.SC(M.P.CS)	Adiabatic process
32	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	24.07.2021 (Online)	S. Sharmila II B.SC(M.P.CS)	Liquefaction of Helium
33	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	24.07.2021 (Online)	R. Sugandhi II B.SC(M.P.CS)	Depletion of Ozone layer
34	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	27.07.2021 (Online)	G. Nagaveni II B.SC(M.P.CS)	Entropy
35	II B.SC- Semester IV Physics -Paper IV – Heat and	27.07.2021 (Online)	T. Sasikala II B.SC(M.P.CS)	Joule-Kelvin effect

	Thermodynamics			
36	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	28.07.2021 (Online)	B. Soujanya II B.SC(M.P.CS)	Mean free path
37	II B.SC- Semester IV Physics -Paper IV – Heat and Thermodynamics	28.07.2021 (Online)	Y. Swathi II B.SC(M.P.CS)	Transport phenomena
38	I B.SC- Semester I Physics -Paper I – Mechanics, Waves and Oscillations	28.07.2021 (Online)	S. Ramya I B.SC(M.P.C) E.M	Galilean transformations
39	I B.SC- Semester I Physics -Paper I – Mechanics, Waves and Oscillations	28.07.2021 (Online)	G. Abitha II B.SC(M.P.C) E.M	Motion of a rocket
40	I B.SC- Semester I Physics -Paper I – Mechanics, Waves and Oscillations	28.07.2021 (Online)	R. Nandini II B.SC(M.P.C) E.M	Kepler's laws
41	I B.SC- Semester I Physics -Paper I – Mechanics, Waves and Oscillations	28.07.2021 (Online)	R. Soniya II B.SC(M.P.C) E.M	Simple oscillator
42	I B.SC- Semester I Physics -Paper I – Mechanics, Waves and Oscillations	28.07.2021 (Online)	V. Suvarna II B.SC(M.P.C) E.M	Central forces
43	I B.SC- Semester I Physics -Paper I – Mechanics, Waves and Oscillations	28.07.2021 (Online)	T. Sowmya II B.SC(M.P.C) E.M	Ultrasonics

T. Raghuraman, Lecturer in Physics demonstrating the experiment "Newton's rings"

I, II, III B.SC.,– PHYSICS
GUIDED TEACHER: Dr B.Annapurna Sarada,
Reader in Physics

S,NO	SEMESTER & PAPER	TITLE OF THE PROJECT	NAMES OF THE STUDENTS	CLASS & GROUP
1	III B.SC-Semester V Paper V Electricity, Magnetism and Electronics	Faraday's laws of Electromagnetic Induction – Applications	1.N.Jayapratap 2.B.Hareesh 3.C.Vikram 4.C.Dileep 5.O.Narendrababu	III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs)
2	III B.SC-Semester V Paper V Electricity, Magnetism and Electronics	Transformers in daily life	1.S.Govardhan 2.C.Praveen 3.G.Geethanjali 4.A.Sireesha 5.P.Madhusudhan	III B.Sc(M.P.C)E.M III B.Sc(M.P.C)E.M III B.Sc(M.P.C)E.M III B.Sc(M.P.C)E.M III B.Sc(M.P.C)E.M
3	III B.SC-Semester V Paper V Electricity, Magnetism and	Universal gates – Applications	1.G.Avathi 2.K.V.Haritha	III B.Sc(M.P.Cs) III B.Sc(M.P.Cs)

	Electronics			
4	III B.SC-Semester V Paper V Electricity, Magnetism and Electronics	LCR circuits – Applications	1.O.Venkatachalapathi 2.S.Babubasha 3.P.Jagadeesh 4.R.Abdul Rahaman 5.S.Chandbasha 6.T.Ajay	III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs) III B.Sc(M.P.Cs)
5	II B.SC- Semester III Paper III (OPTICS)	POLARISATION – APPLICATIONS	1.P.Mahendra 2.G. Rohit 3.P.Yugandhar 4.R. Vijay 5.S. Charanteja	II B.SC(M.P.C)E.M II B.SC(M.P.Cs) II B.SC(M.P.Cs) II B.SC(M.P.Cs) II B.SC(M.P.C)E.M
6	II B.SC- Semester III Paper III (OPTICS)	LASERS – APPLICATIONS	1.A.M.Bhanuteja 2. V. Jayaprakash 3.P.Ganesh	II B.SC(M.P.Cs) II B.SC(M.P.Cs) II B.SC(M.P.Cs)
7	II B.SC- Semester III Paper III (OPTICS)	HOLOGRAPHY – APPLICATIONS	1.T. Roja 2.R. Sugandhi 3.S. Vinodini 4. S. Sharmila	II B.SC(M.P.Cs) II B.SC(M.P.Cs) II B.SC(M.P.Cs) II B.SC(M.P.Cs)
8	II B.SC- Semester III Paper III (OPTICS)	OPTICAL FIBRES – APPLICATIONS	1.N. Harshit 2. P. Kishore 3. C. Bhanuprasad 4. K. Jeevankumar	II B.Sc(M.P.Cs) II B.Sc(M.P.Cs) II B.Sc(M.P.Cs) II B.Sc(M.P.Cs)
9	II B.SC- Semester III Paper III (OPTICS)	DIFFRACTION – APPLICATIONS	1.G.Nagaveni 2.T.Sasikala 3.Y.Swathi 4.K.Radha	II B.Sc(M.P.Cs) II B.Sc(M.P.Cs) II B.Sc(M.P.Cs) II B.Sc(M.P.C)E.M
10	III B.S –Semester VI Paper VIIB Materials science	Applications of nanotechnology	N. Jayapratap	III B.SC (M.P.CS)
11	III B.S –Semester VI Paper VIIB Materials science	Applications of Polymers	1.G. Avathi 2.K.V.Haritha	III B.SC (M.P.CS) III B.SC (M.P.CS)
12	II B.S – Semester IV Paper IV Heat and Thermodynamics	Depletion of Ozone layer	1.T.Roja 2.S.Vinodhini 3.S.Sharmila 4.R.Sugandhi	II B.SC (M.P.CS) II B.SC (M.P.CS) II B.SC (M.P.CS) II B.SC (M.P.CS)
13	II B.S – Semester IV	Applications of Carnot's engine	1.N.Harshit 2.C.Bhanuprasad	II B.SC (M.P.CS) II B.SC (M.P.CS)

	Paper IV Heat and Thermodynamics		3.K.Jeevankumar 4.P.Kishore	II B.SC (M.P.CS) II B.SC (M.P.CS)
14	I B.SC- Semester I Paper I Mechanics, Waves and Oscillations	Gyroscope	1.S.Ramya 2.R.Soniya 3.V.Suvarna 4.D.Muni	I B.SC (M.P.C)E.M I B.SC (M.P.C)E.M I B.SC (M.P.C)E.M I B.SC (M.P.C)E.M
15	I B.SC- Semester I Paper I Mechanics, Waves and Oscillations	Ultrasonics	1.G. Abhitha 2.U.Bhudevi 3.K.Govardhansai 4.T.Mahadeva	I B.SC (M.P.C)E.M I B.SC (M.P.C)E.M I B.SC (M.P.C)E.M I B.SC (M.P.C)E.M

31. Departmental Best Practices (NAAC Format)

Issue of Study material to the students

Issue of Digital Electronics for yourmontly journal

36. Future Plans

** Develope of department parallel with following specializations in honours degree

1.Electronics
2.Nano Technology
3.Thinfilms
4.Space Physics
5.Renewable energy
**Encourage the students to enrole NTPL/Swayam online cources
**To increase the Research activities in department

** Implementation of the Students Researchprojects

** Organize the Webinar/workshop/Seminar/Conference/FDP

** To Strengthen the alumni

* Encourage the students to participate in all types of Community service activities.