ADVANCED LEARNERS AND SLOW LEARNERS
APTITUDE TEST
DEPARTMENT OF ECONOMICS

The Department of Economics conducts Aptitude test in every academic year for the first year students to determine their analytical and problem solving skills. The question paper contains basic mathematics including numerical reasoning, English grammar, general knowledge, plus to level economics, logical reasoning…etc. We give more emphasize on mathematics since there are two Quantitative Tools for Economic Analysis complementary papers in their syllabus which is offered by only five affiliated colleges under the University of Calicut. Thus department identifies the Advanced learners, Average learners and Slow learners at the very beginning of graduate education. The department provides challenging tasks for advanced learners and bridge course in Mathematics for slow learners.

Academic Year - 2022-23

Date: 01/11/23

I BA Economics

Sl No	Name of Students	Marks				Selected
		Entry Level Test (50)	Interview (30)	Qualifying Exam (20)	Total (100)	
1	Jusna Tirkey	40	20	15	75	**Advanced Learners**
2	Niranjana Senthil	20	10	10	40	**Slow Learners**
3	Abiya Santhosh	20	10	10	40	**Slow Learners**
4	Adithya M V	30	15	15	60	**Average Learners**
5	Aiswarya N Mani	25	10	10	45	**Average Learners**
6	Akahaya P A	25	10	10	45	**Average Learners**
7	Anagha K R	30	15	15	60	**Average Learners**
8	Anjaly Kuttan	28	10	10	48	**Average Learners**
9	Arabhi E K	32	15	15	62	**Average Learners**
10	Archan Suresh	30	20	10	60	**Average Learner**
11	Archa Suresh	20	10	10	40	**Slow Learner**
12	Avina Simon	25	15	10	50	**Average Learners**
13	Bhadra P R	33	20	15	68	**Average Learners**

14	Bymin K J	20	15	15	50	**Average Learners**
15	Chithra M	40	20	15	75	**Advanced Learner**
16	Devika Shibu	32	15	15	62	**Average Learner**
17	Francisca Steeviya Averez	30	17	15	62	**Average Learner**
18	Gopika D	25	15	10	50	**Average Learners**
19	Gopika E V	30	15	15	60	**Average Learners**
20	Gopika Thilakan	40	18	17	75	**Advanced Learner**
21	Herita K S	21	10	10	41	**Slow Learners**
22	Hitha Bharathan	23	10	10	43	**Slow Learners**
23	Krishnapriya P P	30	15	15	60	**Average Learners**
24	Lakshmipriya P M	30	15	15	60	**Average Learners**
25	Lakshmipriya P S	21	10	10	41	**Slow Learners**
26	Maneesha k	21	10	10	41	**Slow Learners**
27	Minmini C M	20	15	12	47	**Average Learners**
28	Nidhilakshmi Sudheer	40	20	15	75	**Advanced Learners**
29	Niveditha K U	15	10	10	35	**Slow Learners**
30	Panchami M A	15	10	10	35	**Slow Learners**
31	Rosemol Romy	15	10	10	35	**Slow Learners**
32	Sandra Shajan	15	10	10	35	**Slow Learners**

33	Sayana C S	20	15	12	47	**Average Learners**
34	Shifana A	40	20	15	75	**Advanced Learners**
35	Sreelakshmi P S	40	18	17	75	**Advanced Learner**
36	Thrishna Madhu	20	15	12	47	**Average Learners**

Above 75% - Advanced Learner, 45 % -74% - Average Learner, Below 44% - Slow Learners

List Of Advanced Learners

Sl.No	Name of Student
1	Jusna Tirkey
2	Chithra M
3	Gopika Thilakan
4	Nidhilakshmi Sudheer
5	Shifana A
6	Sreelakshmi P S

List Of Slow Learners

Sl.No	Name of Student
1	Niranjana Senthil
2	Abiya Santhosh
3	Archa Suresh
4	Herita K S
5	Hitha Bharathan
6	Lakshmipriya P S
7	Maneesha k
8	Niveditha K U
9	Panchami M A
10	Rosemol Romy
11	Sandra Shajan

DEPARTMENT OF ECONOMICS, SACRED HEART COLLEGE, CHALAKUDY

a) APTITUDE / AWARENESS TEST FOR STUDENTS WHO TOOK ADMISSION FOR BA ECONOMICS COURSE IN 2022

Name of the Student: …….....Marks for SSLC ……..% Plus Two .....%

Dear student, the purpose of this test is to understand your aptitude and level of understanding of basic concepts in Microeconomics,Macroeconomics, Mathematics, Indian Economy and General Knowledge. Attempt all question .Tick the correct option. You can take 1 Hour to answer the questions.

1. The term Economics derived from			
a) Oikonomia	b) Mikros	c) Oikonomikos	d) Makros
2. Who is known as Father of Economics ?			
a) J M Keynes	b) Adam Smith	c) Paul A Samuelson	d) Dada Bhai Naroji
3. The term Micro economics was first used by			
a) J M Keynes	b) Adam Smith	c) Paul A Samuelson	d) Ragner Frisch
4. Ratio of the percentage change in quantity demand to the percentage change in price			
a) Price elasticity	b) Demand	c) Supply	d) Income elasticity
5. Want satisfying power of a commodity			
a) Utility	b) Demad	c) Supply	d) None of these
6. Economics is the study of			
a) Production technology	b) The best way to run society	c) Consumptions decisions	d) How society decides what, how, and for whom to produce
7. Mixed economy means			
a) Economic problems are solved by the government and market	b) Economic decisions are made by the private sector and free market	c) Economic allocation is achieved by the invisible hand	d)Economic questions are solved by government departments.
8. The horizontal demand curve parallel to x axis implies that the elasticity of demand is ….			

a) Zero.	b) Infinite	c) Equal to one	d) Greater than zero but less than infinity
9. The supply of goods refers to			
a) Stock available for sale	b) Total stock in the warehouse	c) Actual production of the good	d) Quantity of the good offered for sale at a particular rice per unit of time
10. The opportunity cost of a good is			
a) The time lost in finding it	b) The quantity of other goods sacrificed to get another unit of that good	c) The expenditure on good	d) The lost of interest in using savings
11. Macro economics is the study of			
a. House hold purchase decisions	b. The economy as a whole	c. The study of individual economic behaviour	d. The study of individual economic behaviour
12. MPC refers to			
a. Marginal Propensity to Save	b. Marginal Propensity to Consume	c. Marginal Propensity to counting	d. None of the options
13. Who is the founding father of marcoeconomics ?			
a. Adam Smith	b. J M Keynes	c. Paul A Samuelson	d. None of the Above
14. GNP – Depreciation is called			
a. GDP	b. NNP	c. PCI	d. PI
15. RBI was established in			
a. 1930	b. 1935	c. 1947	d. 1945
16. Money Multiplier is			
a. M - H	b. M + H	c. M/H	d. H/M
17. If MPS is 0.7 , then MPC is			
a. 1	b. 0.3	c. 0.7	d. 0
18. Multipler is equal to			
a. 1/ 1-MPC	b. 1/1+MPC	c. 1/ MPC+ MPC	d. None of these

19. Which among the following is a tax revenue ?			
a. Fees	b. Fines	c. Penalities	d. GST
20. If Exports >Imports, it represents			
a. Trade Surplus	b. Trade Balance	c. Trade deficit	d. None of these
21. $(x^a)(x^b)$ =			
a. X^{a+b}	b. X^{ab}	c. X^{a-b}	d. 0
22. $X^a \div X^b$ =			
a. X^{a+b}	b. X^{a-b}	c. X^{ab}	d. 0
23. $(x^a)^b$ =			
a. X^{ab}	b. X^{a+b}	c. X^{a-b}	d. 0
24. $1/x^a$ =			
a. X^{-a}	b. $1 / x^1$	c. 0	d. 0
25. Root of x			
a. $X^{1/2}$	b. x	c. 0	d. 1
26. "a" root x =			
a. $x^{1/a}$	b. $x^{1//2}$	c. $x^{a/2}$	d. 1
27. $4x^5 + 9x^5$ =			
a. $13x^2$	b. $13x^{10}$	c. $49x^5$	d. $36x^5$
28. a^0 =			
a. 1	b. 0	c. a	d. constant
29. $5x^2 - 125 = 0$			
a. 5	b. -5	c. Both a & b	d. 0
30. 5x+6 = 9x-10.What is the value of x			
a. 4	b. 5	c. 0	d. -1
31. Human Development Index rank of India is ……			
a. 131	b. 132	c. 133	d. 128
32. Which of the following replaced planning commission?			
a. UPSC	b. NITI ayog	c. UGC	d. None of these
33. Who is known as Father of planning in India ?			
a. Gandhiji	b. Jawaharlal Nehru	c. M. Vishwesharayya	d. Dada Bhai Naroji
34. What is GST which was introduced in India in 2017 ?			
a. General Sales Tax	b. Goods and Services Tax	c. Government Suggested Tax	d. Government Subcidy Tax

35. When was the first five year plan was started ?			
a. 1949	b. 1950	c. 1951	d. 1954
36. Garibi Hatao is associated with			
a. First five year plan	b. Fifth five year plan	c. Fourth five year plan	d. Third five year plan
37. The budget was formally introduced in India			
a. 1860	b. 1947	c. 1950	d. 1868
38. Education is included in the			
a. Union List	b. State List	c. Concurrent List	d. None of these
39. New Economic Policy was introduced in the year			
a. 1990	b. 1991	. 1886	d. 1993
40. On which date Budget is presented in India			
a. March 1 st	b. January 1 st	c. February 1st	d. December 1st

Read the following passage and answer questions 41 to 45 The independence-era Indian economy (from1947 to 1991) was based on a mixed economy combining features of **capitalism** and socialism, resulting in an inward-looking, interventionist policies and import substituting economy that failed to take advantage of the post-war expansion of trade. This model contributed to **widespread** inefficiencies and corruption, and the failings of this system were due largely to its poor implementation. In 1991, India adopted **liberal** and free-market principles and liberalized its economy to international trade under the guidance of Manmohan Singh, finance minister from 30 November 2009 to 24 January 2010, and previously under the leadership of P.V. Narasimha Rao, prime minister from 1991 to 1996, who had eliminated License Raj, a pre- and post-British era **mechanism** of strict government controls on setting up new industry. Following these major economic reforms and a strong focus on developing national infrastructure such as the Golden Quadrilateral project by Atal Bihari Vajpayee, prime minister, the country's economic growth progressed at a rapid pace, with relatively large increases in percapita incomes

41. What kind of economy was of India in the Independent Era ?			
a. Capitalism	b. Socialism	c. Mixed	d. None of these
42. Golden Quadrilateral project was started by			
a. P.V. Narasimha Rao	b. Atal Bihari Vajpayee	c. Manmohan singh	d. Jawahar Lal Nehru
43. According to the passage which model contributes to widespread inefficiencies and corruption			
a. Lack of interest of authorities	b. Free market principles	c. Mixed economy	d. Liberalization
44. Choose the word that is SAME in meaning to the word as used in the passage LIBERAL			
a. Advance	b. conservative	c. free	d. None of these

45. Choose the word that is OPPOSITE in meaning to the word as used in the passage WIDESPREAD			
a. epidemic	b. concentrated	c. local	d. popular
46. Who is the current RBI Governor ?			
a. Raguram Rajan	b. Sakthikanth Das	c. Urjith Patel	d. Arun jaitely
47. Who is the current Finance Minister of India ?			
a. Thomas Issac	b. Arun jaitely	c. Nirmala Sitharaman	d. Raguram Rajan
48. June 5th is observed as world …….. day			
a. Tourism	b. Population	c. Blood donor	d. Environment
49. Who won Nobel Prize in Economics in 2021 ?			
a. Abhijith Banerjee	b. David Card, Joshua D Angrist and Guido W Imbens	c. Amarthya Sen Kumar	d. None of these
50. Who got major Dhyan Chand Khel Ratna Award in 2021 ?			
a. P R Sreejith	b. Neeraj Chopra	c. Ravi Kumar	d. Lovlina Borgohain

Peer learning

Date: 18/02/2

Topic 1 : Economic system

1.) Sr. Jusna Tirkey
2) Abiya Santhosh
3) Archa suresh Archa
4) Niranjana Senthil
5) Chitra M
6) Gopika thulakan
7) Nidhilakshmi
8) shifana
9) Herita KS
10) Hetha
11) Lakshmi priya PS
12) Maneesha
13.) Niveditha KU

Topic 2: Types of production 23/03/2023

S/No	Name	Signature
1	Sr. jusna Tirkey	
2.	Narayana senthil	
3	Nivedetha ICU	
4	Panchami	
5	Rosemol	
6	sandia. shajan	
7.	Maneesha	
8	Lakshmipriya PS	
9	Shifana	
10	Sreelakshmi	

SACRED HEART COLLEGE, CHALAKUDY

Department of English

Programmes for All Learners

Seminar on 'Fanfiction and Fandom Studies'

On 7 November 2022, Department of English organised a seminar on 'Fanfiction and Fandom Studies',with regard to the, postmodern genres in literature. The resource person was Dr Muralikrishnan TR,Professor,Dept of English,Sree Sankaracharya University of Sanskrit,Kalady. The students of the Department participated in the seminar.

Brochure



Photographs













List of Students who Participated

B.A.English

First Year B.A.English 2022-23

No	Name of the Candiddate
1	Akshara Babu
2	Amal Roshna
3	Ameena CB
4	Anisha Thomas
5	Anugraha MI
6	Arathy Sajeev
7	Avanthika CB
8	Krishnapriya M
9	Meenakshi TS

10.	Niya Sheril
11	Rajwa Zayan Kooraremmal
12	Sreeshma PP
13	Sreya Venu K
14	Sruthy CR
15	Anjana Anirudhan
16	Anna Varghese
17	Athmika AR
18	Fathimathu Shaniba PK
19	Gauri Nandanan
20	Jishna UP
21	Jisna Jomy
22	Mubeena S
23	Rajeswari EL
24	Sandhra TB
25	Sayana PP

II B.A.English

No	**Name**
1	**Anjana A**
2	**Chandini Chandran**
3	**Afna kk**
4	**AgnasMaria Wilson**
5	**Alby KT**
6	**Amritha Unni**
7	**Anngrace Jose**
8	**Anna Julia**
9	**Anna Nelson**
10	**Arsha Mariya**
11	**Delisha Desna**
12	**Krishnapriya V**
13	**Nandana KU**
14	**Nandana Nair**
15	**Sahla CK**

III B.A.English

No	**Name**
1	**Aleena N Shaju**
2	**Angel Rose Lalu**

3	**Anjali K**
4	**Anjali TS**
5	**Gishma Suresh**
6	**Nafeezathbi B.K**
7	**Riswana PR**
8	**Akshaya P**
9	**Amrutha Suresh**
10	**Angel Paul**
11	**Anit Mary George**
12	**Ankitha Suresh**
13	**Anna Grace Biju**
14	**Ann Mariya G Palliyan**
15	**Arya PK**
16	**Athulya M Rathnakumar**
17	**Ciya Shaju**
18	**Ganga Vinayakumar**
19	**Krishna Mookambika**
20	**Niranjana KS**
21	**Sajitha OS**
22	**Sandra Francis**
23	**Sangeetha k**
24	**Shilpa Mariya Francis**
25	**Swathy K Chandran**
26	**Thushara Paulose**

Svadhyaya,Discourse on the Art of Being

'Svadhyaya,Discourse on the Art Being', an international seminar was conducted on 2 December 2022.The seminar had two sessions.Fist session was engaged by Rev. Rev Dr John Pozhathuparambil, OFM Conv,Campus Minister,IDC-Theo Instructor,Bellarmine University, Louisville, Kentucky.Session two was led by Dr. Mallika A Nair, Assistant Professor & Research Guide, PG Department Of English & Research Centre, Vimala College (Autonomous),

Thrissur.The sessions had been followed by interaction with Dr Karthyayani,Gynaecologist,Palace Hospital,Chalakudy.There were around 150 participants for the seminar, with around 50 foreign citizens.The seminar discussed the transcendental aspects of existence with cross-reference to Indian and western philosophy .The seminar proved an effective platform for cultural exchange and a vibrant space for intellectual engagement.

SACRED HEART COLLEGE FOR WOMEN, CHALAKUDY

Department of English

List of Advanced and Slow Learners

First year Students

No	Name of Student	Level of Learning
1	Rajwa Zayan Kooraremmal	Advanced Learners
2	Amal Roshna M	
3	Ameena C B	
4	Sandhra T B	
5	Anjana Anirudhan	
6	Anna Varghese	
7	Anugraha M.I.	
8	Arathy Sajeev	
9	Athmika A R	
10	Avanthika.C.B.	
11	Fathimathu Shaniba P K	
12	Gauri Nandanan	
13	Sreya Venu K	
14	Jisna Jomy	
15	Sreeshma P P	
16	Meenakshi T S	
17	Mubeena S	
18	Niya Sheril	
19	Rajeswari E L	
20	Sruthy Cr	
21	Anisha Thomas	Slow Learners
22	Sayana P P	
23	Krishna Priya M	
24	Jishna U P	
25	Akshara Babu	

Second year students

Sl No	Name of Student	Level of Learning
1.	Chandhini Chandran	
2.	Afna K K	
3.	Alby K T	

4.	Amritha Unni	Advanced Learners
5.	Anna Julia	
6.	Anna Nelson	
7.	Arsha Mariya	
8.	Krishnapriya	
9.	Nandana Nair	
10.	Sahla C K	
11.	Ann Grace Jose	Slow Learners
12.	Agnas Mariya	
13.	Delisha Desna	
14.	Nandana K V	
15.	Anjana A	

Third Year Students

Sl.No	Name	Level of Learning
1.	Angel Rose Lalu	
2.	Nafeezathbi BK	
3.	Shilpa Mariya Francis	

4.	Riswana P R	Advanced Learners
5.	Sandra Francis	
6.	Sangeetha K	
7.	Anjali K.	
8.	Anjali T.S.	
9.	Arya PK	
10.	Ann Maria G Palliyan	
11.	Gishma Suresh	
12.	Ganga Vinayakumar	
13.	Athulya M Rathnakumar	
14.	Swathy K Chandran	
15.	Ciya Shaju	
16.	Sajitha O.S	Slow Learners
17.	Thushara	
18.	Krishna Mookambika MV	
19.	Aleena N shaju	
20.	Amritha Suresh	
21.	Angel Paul	
22.	Akshaya P	
23.	Anit Mary George	
24.	Ankitha Suresh	
25.	Anna Grace Biju	
26.	Niranjana KS	

2.2.1 Mechanism and Programmes organized for advanced learners and slow learners

The department identified both the advanced learners and slow learners on the basis of marks that they obtained in the entry level test conducted by the department. On the basis of this faculties motivated the advanced learners to participate in the developmental programmes like walk with a scholar. The programme provided orientation and motivation classes and site visits to various universities for knowing the future opportunities and to interact with the scholars of different areas to these selected students. Department also conducted Civil service training Programme to the advanced learners of all department.

For the slow learners remedial coaching classes and peer group studies were conducted. Financial support and help from various scholarships and grants were issued to the students.

SACRED HEART COLLEGE,CHALAKUDY

BA History – Test Paper

Answer the following

1.Where is the Indus civilization city lothal

2. Mohenjodaro is situated in

3. Mahavira belonged to the clan

4.The first budhist sangeeti was held at

5. Who was the ambassador in the court of bindusara

6. Who wrote indica

7. Name the author of‘ Lineage to State’ -

8. Founder of Satavahana dynasty was

9. Writer of the Kalpasutra

10. …… is the study of coins

2022-2023 III BA HiSTORY		
Advanced Learners	**Medium Learners**	**Slow Learners**
Gayathry N J	Aiswarya Babu	Adhila Banu
Hanna mary	Archana TS	Amrutha k.u
M.A. Fathima Jasra	Ashida Baiju	Anila Anilkumar
Naja c.p	Aswathy MR	Disna davis
Nandana TN	BabyRani Prattipati	KA sanila

Thahira k.r	Chinju Pc	Meenu Renny
	Devikrishna k. S	Megha Benny
	Jisa paul	Ramya P B
	Jomol m.j	Sneha k ramesh
	Khadeeja Sanha. C	Sreelakshmi k
	Marila paul	Thankeswari vp
	Praveena M B	Vandana E.v
	Praveena.k	
	Rajalakshmi V A	
	Rathika Ramesan	
	Reshma K S	
	Revathy P R	
	Sabaha basheer	
	Shafna jasmin p	
	Shifna Shireen KP	
	Smitha Antony	
	Sneha Babu	
	Varsha N.S	
	Vijisha v v	

Methodology to identify the SL.ML,AL

Higher Secondary Marks

Percentage of Marks above 90%	Hanna mary
	M.A. Fathima Jasra
	Naja c.p
	Seethal MS
Percentage of Marks above 80%	Gayathry N J
	Nandana TN

	Thahira k.r
Percentage of Marks above 75%	Aiswarya Babu
	Archana TS
	Ashida Baiju
	Aswathy MR
	Jisa paul
	Jomol m.j
	Khadeeja Sanha. C
	Marila paul
	Praveena M B
	Praveena.k
	Rajalakshmi V A
	Rathika Ramesan

	Reshma K S
	Devikrishna k. S
	Reshma K S
	Revathy P R
	Sabaha basheer
	Shafna jasmin p
	Shifna Shireen KP
	Smitha Antony
	Sneha Babu
	Varsha N.S
	Vijisha v v
	Sneha k ramesh
Percentage of Marks above 65%	BabyRani Prattipati
	Chinju Pc
	Adhila Banu

	Amrutha k.u
Percentage of Marks below 65%	Anila Anilkumar
	Disna davis
	KA sanila
	Meenu Renny
	Megha Benny
	Ramya P B
	Sreelakshmi k
	Thankeswari vp
	Vandana E.v
	Beema Meerasa

2022-23 II BA		
Advanced Learners	Medium Learners	Slow learners
Amil C J	**Maya A R**	**Anitta Boban**
Anjana Pradeep	**Aleena P J**	**Ashmin Shaju**
Craysal Shajan	**Aleena T A**	**Aswathy A B**
Ahalya N S	**Anagha A K**	**Athulya Rajrswari**
Nandana Baiju	**Anagha K S**	**Athulya VR**
Naseeba V N	**Anagha Nanda T S**	**Bhadra K Chandran**
Sameena Saji	**Ancy P B**	**Bismol Benny**
Riswana A S	**Aneettamol Jinson**	**Christeena Babu**
Seethalakshmi K B		**Devika K G**
Mrudula Varghese		**Gopika Gopinath**
		Jeeva AK
		Jeffit Jeffy
		Josiya Johny
		Akhila Varghese

Methodology to identify the SL.ML,AL

Higher Secondary Marks

Percentage of marks above 80%	**Amil C J**
	Anjana Pradeep
	Craysal Shajan
	Ahalya N S
	Nandana Baiju
	Naseeba V N
	Sameena Saji
	Riswana A S
	Seethalakshmi K B
	Mrudula Varghese
Percentage of marks above 70%	**Maya A R**
	Aleena P J
	Aleena T A
	Anagha A K
	Anagha K S
	Anagha Nanda T S
	Ancy P B
	Aneettamol Jinson
Percentage of marks above 60%	**Anitta Boban**
	Ashmin Shaju
	Aswathy A B
	Athulya Rajrswari
	Athulya VR
	Bhadra K Chandran
	Gopika Gopinath

	Jeeva AK
	Jeffit Jeffy
	Josiya Johny
	Akhila Varghese

Percentage of marks below 60%	**Bismol Benny**
	Christeena Babu
	Devika K G

I BA HISTORY		
Advanced Learners	Medium Learners	Slow learners
AYISHA SHAFEEK	APARANA P U	PRIYALAKSHMY R
FATHIMUTH BASHEER	APARNAVENUGOPAL	ROSEMARIYA
PRIYA P V	APARNENDU R	SREEKUTTY K D
SANISHA C S	APSARA P SAJAN	SREYA. M
SUMANYA K	ASHNA MENDEZ	SRUTHIRAJ P
AKSHARA C A	ASWATHI M P	SURYA M B
AKSHAYA V V	BHADRA PREMACHANDRAN	SWETHA KRISHNA
ALEENA K J	BINDHIYA BIJU	THRISHA T S
AMMU ACHUTHAN	DEVIKA A R	
ANJANA C B	DEVIKA V S	
ANNA ADHEENA SHAJAN	GOPIKA K B	
ANUPAMA M S	GOPIKA V S	

	HARISHMA P S	
	HARSHA K P	
	JOSNA JOSE P J	
	KRISHNAPRIYA A R	
	KRISHNENDU K S	
	MARIYA MARTIN	
	MIDHUNA VARGHESE	
	NAYANA A	
	NIKHILA MADHU	

Methodology to identify the SL.ML,AL

Higher Secondary Marks

Percentage of marks above 80%	AYISHA SHAFEEK
	FATHIMUTH BASHEER
	PRIYA P V
	SANISHA C S
	SUMANYA K
	AKSHARA C A
	AKSHAYA V V
	ALEENA K J
Percentage of marks above 70%	

	AMMU ACHUTHAN
	ANJANA C B
	ANNA ADHEENA SHAJAN
	ANUPAMA M S
	APARANA P U
	APARNAVENUGOPAL
	APARNENDU R
	APSARA P SAJAN
	ASHNA MENDEZ
	ASWATHI M P
	MIDHUNA VARGHESE
	NAYANA A
	NIKHILA MADHU
Percentage of marks above 60%	BHADRA PREMACHANDRAN
	BINDHIYA BIJU
	DEVIKA A R
	DEVIKA V S
	GOPIKA K B
	GOPIKA V S

	PRIYALAKSHMY R
	ROSEMARIYA
	SREEKUTTY K D
	SREYA. M
	SRUTHIRAJ P
Percentage of marks below 60%	HARISHMA P S
	HARSHA K P
	JOSNA JOSE P J
	KRISHNAPRIYA A R
	KRISHNENDU K S
	MARIYA MARTIN
	SURYA M B
	SWETHA KRISHNA
	THRISHA T S

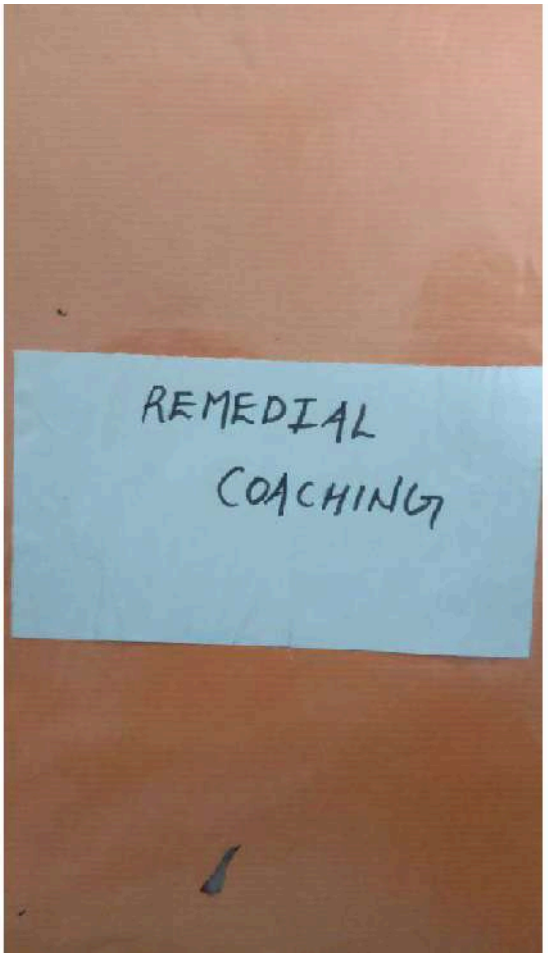
Peer group

Students divided into different group and each group under the guidance of a student leader.

Leaders took the initiative of teaching the students of her group. By this interpersonal relations and interconnectedness were ensured to maintain the intellectual advancement of the students. Thus making the campus learner centred and participatory

Remedial Coaching

Faculty of the department conducted remedial coaching to the weak students of the department. Free hours were utilized for remedial coaching. The topics which were difficult to the students were taken in such classes. Main themes were divided into sub topics and concept clarifications ensured. The same procedure we repeat in every year.



Invited Talk

Department organised a class on women empowerment on 24th January 2022. The class conducted by Riya Elamma Raju. She talked about the women empowerment. She is working as women facilitator in Chalakudy Muncipality. She motivated the students by telling them the need of job for their sustenance.


Chalakudy, Kerala | 2023.01.24 13:43

REMEDIAL

COACHING

III DC Students	06.07.2022	02.08.2022	14.10.2022	11.11.2022	06.12.2022	09.01.2023	16.01.2023
1. Athula Babu	✓	✓	✓	✓	✓	✓	✓
2 Amrutha K U	✓	✓	✓	✓	✓	✓	✓
3 Anila Anilkumar	✓	✓	✓	✓	✓	✓	✓
4 Diana Davis	✓	✓	✓	✓	✓	✓	✓
5 A.A Sanila	✓	✓	✓	✓	✓	✓	✓
6 Meenu Kenny	✓	✓	✓	✓	✓	✓	✓
7 Megha Benny	✓	✓	✓	✓	✓	✓	✓
8 Remya P.B	✓	✓	✓	✓	✓	✓	✓
9 Sneha	✓	✓	✓	✓	✓	✓	✓
10 Thankesmani	✓	✓	✓	✓	✓	✓	✓
11 Vandana	✓	✓	✓	✓	✓	✓	✓

Scientific Revolution, Reformation, World Wars, etc

Teacher in charge Mr. Lubin Francis

II DC Students	20.07.2022	19.08.2022	17.10.2022	08.11.2022	08.12.2022	10.01.2023	20.01.2023
1. Aleena T.A	✓	✓	✓	✓	✓	✓	✓
2 Anagha Nanda T.S	✓	✓	✓	✓	✓	✓	✓
3 Anjana Pradeep	✓	✓	✓	✓	✓	✓	✓
4 Anagha A.K	✓	✓	✓	✓	✓	✓	✓
5 Bhadra K Chandran	✓	✓	✓	✓	✓	✓	✓
6 Jeffit Jeffy	✓	✓	✓	✓	✓	✓	✓
7 Akhila Varghese	✓	✓	✓	✓	✓	✓	✓

Mahajanapadas, Vedic period, Bronze Age Civilizations, Neolithic revolution, Roman Empire etc

Teacher in charge Ms Meenu Jacob

I DC Students	12.10.2022	14.10.2022	24.11.2022	25.11.2022	15-12-2022	12.01.2023	25.01.2023
1. Sumanya K	✓	✓	✓	✓	✓	✓	✓
2 Surya M.B	✓	✓	✓	✓	✓	✓	✓
3 Anupama M.S	✓	✓	✓	✓	✓	✓	✓
4 Sreekutty K.D	✓	✓	✓	✓	✓	✓	✓
5 Manya Mathai	✓	✓	✓	✓	✓	✓	✓

Teacher in charge Ms.

Peer Teaching

2022 - 2025

III BA History

Group I — leader: Gayathri. N.J

1. Aiswarya Babu
2. Archana T.S
3. Ashida Baiju
4. Aswathy. M.R
5. Baby Rani
6. Chinju P.C
7. Devikrishna K.S

Group 2 — leader: Hanna Mary

1. Jisa Paul
2. Jomol M.J
3. Khadeeja Sanha
4. Marila Paul
5. Praveena M.B
6. Rajalakshmi V.A
7. Rathika Ramesh

Group 3 — leader: Fathima Jasra

1. Reshma K.S
2. Revathy P.R
3. Sabaha Basheer
4. Shafna Jasmin
5. Shifna Shireen
6. Smitha Antony
7. Sneha Babu
8. Seethal M.S

Group 4 — leader: Naia C.P

1. Varsha N.S
2. Vidisha V.V
3. Adhila Banu
4. Amrutha K.V
5. Disna Davis
6. Ahila Anilkumar
7. K.A. Samla

Group 5

leader

Nandana. T. N

1. Meenu Renny
2. Megha Benny
3. Remya. P. B
4. Sneha Ramesh
5. Sreelakshmi. K
6. Thankeswari
7. Vandana. E. V
8. Thahira. K. K

II BA History

Group I

leader

Craysal shajan

1. Amil. C. J
2. Anjana Pradeep.
3. Craysal Shajan
4. Ahalya N. S
5. Akhila Varghese.
6. Aleena P J
7. Aleena T. A

Group 2

leader

Seethalakshmi. K. B

1. Anagha. A. K
2. Anagha. K. S
3. Anagha Nanda. T. S
4. Anu. P. B
5. Aneettamol Jinson
6. Anitta Boban
7. Ashmin Shaju

Group 3

Leader

Naseeba . V . N .

1. Aswathy . A . B
2. Athulya Rajeswari
3. Athulya V . R
4. Bhadra K Chandran
5. Bismol Benny
6. Christeena Babu .
7. Devika . K . G

Group 4

Leader

Gopika Gopinath .

1. Gopika Gopinath
2. Jeeva A . K
3. Jeffit Jeffy .
4. Josiya Johny .
5. Maya A . R
6. Mridhula Varghese
7. Nandana Baiju

Group 5

Leader

Amal . C . J

1. Riswana . A . S
2. Sameena Saji
3. Sona . P . S

I BA History

Group 1

header

Thrisha T.S

1 Fathimath Basheer
2 Priya P V
3 Sanisha C.S
4 Sumanya K
5 Akshara C A
6 Akshaya V.V
7 Alvena K.J
8 Surya M.B

Group 2

header

Ayisha shafeek

1 Ammu Achuthan
2 Anjana C.B
3 Anna Adeena Shajan
4 Anupama M S
5 Aparna P.U
6 Aparna Venugopal
7 Aparnendu R
8 Swetha Krishna

Group 3

header

Akshara C.A.

1 Apsara P Sajan
2 Ashna Mendez
3 Ashwathy M.P
4 Ayisha Shafeek
5 Bhadra Premachandran
6 Bindya Bidu
7 Devika A R
8 Sruthi Raj P.

Group 4

header

Sruthi Raj P

1 Devika V.S
2 Gopika K.B
3 Gopika V.S
4 Harishma P.S
5 Harsha K.P
6 Josna Jose P.J
7 Krishna Priya A.R
8 Sreya M

Group 5

1. Krishnendu K.S
2. Mariya Martin
3. Midhuna Varghese
4. Nayana A.
5. Nikhila Madhu
6. Priyalakshmi R.
7. Rose Mariya A.
8. Sreekutty K.D.
9. Thrisha T.S

Leader

Aparna. P.U

2.2.1 Assessment of the learning levels of the students (Department of Mathematics)

Advanced and slow learners (2022-23)

The students of the department were categorized as advanced and slow learners on the basis of test papers conducted and their other skills. There were advanced learners who were encouraged to participate in intercollegiate competitions. Various seminars were organized by the department to develop their skills in mathematics. Others were motivated to work harder. Peer teaching helped the average students to improve. Slow learners were given extra classes and doubt clarification sessions.

II M.Sc Mathematics

Slow Learners	**Medium Learners**	**Advanced learners**
Akshara K C	Aleena Wilson	Christy Shaji
AnaghaKrishna K U	Ann Maria Varghese	Devika M S
Ashna Varghese	Anju Antony	Megha Viswanadh
Jeneesha Suresh	Athulya Joy	Hamnah Ummer K K
Aryalakshmi N A	Nigitha Thomas	C. G Anjana
Rosna Davis		Sneha Shaji

I M.Sc Mathematics

Slow Learners	**Medium Learners**	**Advanced learners**
Kripamariya	Dhilsha Rajeev	Vishnumaya E
Abhyrami C	Naja Latheef	Athira S Nair
Maria Joshna M J	Akhila Madhu	Irfana K K

List of programs organized for advanced learners, slow learners, all learners

Programmes for advanced learners:

- Peer teaching



- Student presentations



Programmes for slow learners:

- Peer group learning



- Remedial coaching



Programmes for all students:

- Bridge course



Achievements of students



Vishnumaya E and Dhilsha Rajeev receiving First position in intercollegiate poster presentation competition



Hamnah Ummer and Jeneesha Suresh receiving Second position in intercollegiate poster presentation competition

SACRED HEART COLLEGE, CHALAKUDY
FIRST SEMESTER M.Sc. MATHEMATICS
FIRST INTERNAL EXAMINATION, NOVEMBER 2023

MTH 1C 01: ALGEBRA I

Time: 2 hours Maximum weightage: 20

PART A (*Answer **all** questions. Each question carries 1 weightage.*)

1. Find all abelian groups of order 360 up to isomorphism.
2. Is the map $\phi : \mathbb{R}^2 \to \mathbb{R}^2$ given by $\phi(x, y) = (x + y, x + y)$ is a plane isometry or not.
3. Find the order of the element $(2, 4) + \langle(0, 2)\rangle$ in the factor group $(\mathbb{Z}_4 \times \mathbb{Z}_6)/\langle(0, 2)\rangle$.
4. Show that a factor group of a cyclic group is cyclic. $(4 \times 1 = 4$ weightage)

PART B (*Answer any **three** questions. Each question carries 2 weightage.*)

5. If m is a square free integer, then show that every abelian group of order m is cyclic.
6. State and prove the fundamental homomorphism theorem.
7. Show that M is a maximal normal subgroup of G if and only if G/M is simple.
8. Let X be a G-set. Show that G_x is a subgroup of G for each $x \in X$
9. State and prove the Burnside's formula. $(3 \times 2 = 6$ weightage)

PART C (*Answer any **two** questions. Each question carries 5 weightage.*)

10. (a) Show that the group $\mathbb{Z}_m \times \mathbb{Z}_n$ is cyclic and is isomorphic to $\mathbb{Z}_{mn}$ if and only if m and n are relatively prime.
    (b) Suppose m divides the order of a finite abelian group G. Show that G has a subgroup of order m.
11. (a) Let H be a subgroup of G. Show that the left coset multiplication is well defined by the equation $(aH)(bH) = (ab)H$ if and only if H is a normal subgroup of G.
    (b) Let H be a normal subgroup of G. Show that the cosets of H form a group G/H under the binary operation $(aH)(bH) = (ab)H$.
12. (a) Let $G = H \times K$. Show that $\overline{H} = \{(h, e) \mid h \in H\}$ is a normal subgroup of G and $G/\overline{H}$ is isomorphic to K.
    (b) Suppose C is the commutator subgroup of G. If N is a normal subgroup of G, then show that G/N is abelian if and only if $C \leq N$.
13. (a) Define a group action on a set.
    (b) Let X be a G-set and let $x \in X$. Show that $|Gx| = (G : G_x)$. Also show that $|Gx|$ is a divisor of $|G|$, if $|G|$ is finite.

$(2 \times 5 = 10$ weightage)

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Sacred Heart College, Chalakudy
First Semester MSc Mathematics
Second Internal Examination, December 2023

MTH 1C 02 - LINEAR ALGEBRA

Time: 2 hours

Maximum weightage: 20

PART A

Answer all questions. Each question carries 1 weightage.

1. Let V be the space of all polynomial functions from $\mathbb{R}$ into $\mathbb{R}$ of degree three or less. If D is the differentiation operator on V and $\mathscr{B} = \{1, x, x^2, x^3\}$, find $[D]_{\mathscr{B}}$ and its determinant.
2. Let f be a non-zero linear functional on the vector space V. Prove that the null space of f is a hyperspace in V.
3. Let V be the vector space of all $n \times n$ matrices over the field F, and let $B \in V$. If $T : V \to V$ is defined by $T(A) = AB - BA$ for $A \in V$, then verify that T is a linear transformation.
4. State and prove Cauchy-Schwarz inequality.

$(4 \times 1 = 4$ weightage$)$

PART B

Answer any three questions.Each question carries 2 weightage.

5. Let V be a finite-dimensional vector space over the field F and let $\mathscr{B} = \{\alpha_1, \alpha_2, \ldots, \alpha_n\}$ be a basis for V. Show that there exists a unique dual basis $\mathscr{B}^* = \{f_1, f_2, \ldots, f_n\}$ for the dual space V^*.
6. Let V and W be vector spaces over the field F and let T be a linear transformation from V into W.
   (a) Show that the null space of T^t is the annihilator of the range of T and
   (b) If V and W are finite dimensional, then prove that $rank(T^t) = rank(T)$.
7. Show that if S is any subset of a finite dimensional vector space V, then $(S^\circ)^\circ$ is the subspace spanned by S.
8. Let V be a finite-dimensional vector space over the field F. For each vector $\alpha \in V$, define $L_\alpha(f) = f(\alpha)\ \forall\ f \in V^*$. Prove that the mapping $\alpha \mapsto L_\alpha$ is an isomorphism of V onto V^{**}.
9. (a) Show that every $n-$dimensional vector space over the field F is isomorphic to the space F^n.
   (b) Prove that an orthogonal set of non-zero vectors is linearly independent.

$(3 \times 2 = 6$ weightage$)$

PART C

Answer any two questions. Each question carries 5 weightage.

10. Let V be an $n-$dimensional vector space over the field F and let W be an $m-$dimensional vector space over the field F, Prove that the vector space $L(V, W)$ is finite-dimensional and has a dimension mn.
11. Let θ be a real number. Prove that the following two matrices are similar over $\mathbb{C}$,
$$A = \begin{pmatrix} \cos\theta & -\sin\theta \\ \sin\theta & \cos\theta \end{pmatrix} \text{ and } B = \begin{pmatrix} e^{i\theta} & 0 \\ 0 & e^{-i\theta} \end{pmatrix}$$
12. Let V be a finite dimensional vector space over the field F, and let W be a subspace of V, then prove that $\dim W + \dim W^\circ = \dim V$.
13. Let W be the subspace of $\mathbb{R}^5$ which is spanned by the vectors $\alpha_1 = (1.2, 1, 0, 0), \alpha_2 = (0, 1, 3, , 3, 1), \alpha_3 = (1, 4, 6, 4, 1)$. Find a basis for W°.

$(2 \times 5 = 10$ weightage$)$

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SACRED HEART COLLEGE, CHALAKUDY
THIRD SEMESTER M.Sc. MATHEMATICS
FIRST INTERNAL EXAMINATION, NOVEMBER 2023

MTH3C11: MULTIVARIABLE CALCULUS AND GEOMETRY

Time: 2 hours Maximum weightage: 20

PART A (*Answer **all** questions. Each question carries 1 weightage.*)

1. Suppose X is an n-dimensional vector space. Show that a set E of n vectors in X spans X if and only if E is independent.
2. If $A \in L(\mathbb{R}^n, \mathbb{R}^m)$, then show that $\|A\| < \infty$ and A is uniformly continuous.
3. State and prove linear version of the implicit function theorem.
4. Show that $det\ [A] = 0$ if $[A]$ has two equal columns.

$(4 \times 1 = 4$ weightage)

PART B (*Answer any **three** questions. Each question carries 2 weightage.*)

5. Prove that a linear operator A on a finite dimensional vector space X is one to one if and only if range of A is all of X.
6. Suppose f maps a convex open set $E \subset \mathbb{R}^n$ into $\mathbb{R}^n$, f is differentiable in E, and there is a real number M such that $\|f'(x)\| \leq M\ \forall x \in E$. Show that $|f(b)-f(a)| \leq M|b-a|$ for all $a, b \in E$.
7. State and prove the contraction principle.
8. Suppose $[A]$ and $[B]$ are $n \times n$ matrices. Show that det $([B][A])$ = det $[B]$ det $[A]$.
9. Show that a linear operator A on $\mathbb{R}^n$ is invertible if and only if $det\ [A] \neq 0$.

$(3 \times 2 = 6$ weightage)

PART C (*Answer any **two** questions. Each question carries 5 weightage.*)

10. Suppose f maps an open set $E \subset \mathbb{R}^n$ into $\mathbb{R}^m$. Prove that $f \in \mathscr{C}'(E)$ if and only if the partial derivatives $D_j f_i$ exist and are continuous on E for $1 \leq i \leq m$, $1 \leq j \leq n$.
11. Suppose Ω be the set of all invertible linear operators on $\mathbb{R}^n$.
    (a) If $A \in \Omega$, $B \in L(\mathbb{R}^n)$ and $\|B - A\|\|A^{-1}\| < 1$, then show that $B \in \Omega$.
    (b) Show that Ω is an open subset of $L(\mathbb{R}^n)$, and the mapping $A \to A^{-1}$ is continuous on Ω.
12. State and prove the inverse function theorem.
13. State and prove the implicit function theorem.

$(2 \times 5 = 10$ weightage)

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Sacred Heart College, Chalakudy
Third Semester MSc Mathematics
Second Internal Examination, December 2023

MTH 3C 12: COMPLEX ANALYSIS

Time: 2 hours

Maxin ı weightage: 20

PART A

Answer all questions.
Each question carries 1 weightage.

1. Let $\gamma : [0, 2\pi] \to \mathbb{C}$ and define $f(z) = \frac{1}{z} : z \neq 0$. Find $\int_\gamma f(z)dz$.
2. Prove that a Möbius transformation is the composition of translations, dilations and inve ons.
3. Evaluate the cross-ratios $(7+i, 1, 0, \infty)$ and $(2, 1-i, 1, 1+i)$.
4. Identify the type of singularity of the function $e^{\frac{1}{z}}$ at $z = 0$.

(4 : = 4 weightage)

PART B

Answer any six questions.
Each question carries 2 weightage.

5. State and prove Fundamental Theorem of Algebra.
6. If $\gamma : [0, 1] \to \mathbb{C}$ is a closed rectifiable curve in G such that $\gamma \sim 0$, then prove that $n(\gamma, w)$ ib $w \in \mathbb{C} \setminus G$.
7. Let $\gamma(t) = e^{it}, 0 \leq t \leq 2\pi$. Find $\int_\gamma \frac{e^z - e^{-z}}{z^n} dz$.
8. State and prove Maximum Modulus Theorem.
9. Let z_1, z_2, z_3, z_4 are four distinct points in $\mathbb{C}_\infty$. Then prove that their cross ratio is real if only if all four points lie on a circle.

(3 × = 6 weightage)

PART C

Answer any two questions.
Each question carries 5 weightage.

10. State and prove Goursat's Theorem.
11. (a) State and prove general form of Cauchy's theorem.
    (b) Let γ and σ be two polygons $[1, i]$ and $[1, 1+i, i]$. Express γ and σ as paths and calcul $\int_\gamma f$ and $\int_\sigma f$ where $f(z) = |z|^2$.
12. If $f : G \to \mathbb{C}$ is one-one, analytic and $f(G) = \Omega$. Then prove that $f^{-1} : \Omega \to G$ is analyt nd prove that $(f^{-1})'(w) = \frac{1}{f'(z)}$ where $w = f(z)$.
13. State and prove Casorati-Weierstrass Theorem.

(2 × 5 = 10 weightage)

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MTH 3C 13 - FUNCTIONAL ANALYSIS

S.NO	NAME	INTERNAL I (100)	INTERNAL II (100)	GRADE POINT	ATTENDANCE	ASSIGNMENT	SEMINAR	TOTAL
1.	ABHYRAMI C	53	44	4	5	5	5	3.8
2.	AKHILA MADHU	63	84	6	5	5	5	4.2
3.	ATHIRA S NAIR	85	94	8	5	5	5	4.6
4.	DHILSHA RAJEEV	10	27	2	4	5	5	3.2
5.	IRFANA K.K	49	69	4	5	5	5	3.8
6.	KRIPAMARIYA	67	69	6	5	5	5	4.2
7.	MARIA JOSHNA M.J	79	88	8	5	5	5	4.6
8.	VISHNUMAYA E	81	66	6	5	5	5	4.2

MTH 3C14 PDE AND INTEGRAL EQUATIONS

Sl.No	NAME	Test 1 100	Test 2	Grade point	Att.	Asmt.	Sem.	Total
1.	Abhyrami C	64	50	4	5	5	5	3.8
2.	Akhila Madhu	62	55	6	5	5	5	4.2
3.	Athira S Nair	58	98	8	5	5	5	4.6
4.	Dhilsha Rajeev	20	60	4	4	5	5	3.6
5.	Irfana K.K	70	74	6	5	5	5	4.2
6.	kripamaria	67	53	6	5	5	5	4.2
7.	Maria Joshna M.J	66	73	6	5	5	5	4.2
8.	Vishnumaya E	81	66	8	5	5	5	4.6

MTH3E02 - CODING THEORY

SL. NO.	NAME	Internal I (100)	Internal II	Grade Point	Attendance	Assignment	Seminar	Total
1.	ABHYRAMI C	77	53	6	5	5	5	4.2
2.	AKHILA MADHU	70	83	8	5	5	5	4.6
3.	ATHIRA S NAIR	88	87	8	5	5	5	4.6
4.	DILSHA RAJEEV	39	20	2	4	5	5	3.2
5.	IRFANA KK	95	100	10	5	5	5	5
6.	KRIPAMARIYA	52	83	6	5	5	5	4.2
7.	MARIA JOSHNA MJ	82	94	8	5	5	5	4.6
8.	VISHNUMAYA E	84	90	8	5	5	5	4.6

MTH3C12 — COMPLEX ANALYSIS

Sl.No.	NAME	Internal I (100)	Internal II	Grade Point	Attendance	Assignment	Seminar	Total
1	ABHYRAMI C	81	58	6	5	5	5	4.2
2	AKHILA MADHU	80	50	6	5	5	5	4.2
3	ATHIRA S NAIR	63	72	6	5	5	5	4.2
4	DHILSHA RAJEEV	12	—	2	4	5	5	3.2
5	IRFANA K K	73	58	6	5	5	5	4.2
6	KRIPAMARIA	85	62	6	5	5	5	4.2
7	MARIA JOSHNA M J	91	89	10	5	5	5	5
8	VISHNUMAYA E	84	70	6	5	5	5	4.2

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II Semester M.Sc [2022-24]

MTH2C08 - Topology

Sl.No	NAME	TEST (I) (50)	TEST (II) (50)	ASS	SEMINAR	OVER ALL
1	ABHYRAMI C	27	15	5	5	
2	AKHILA MADHU	81	60	5	5	
3	ATHIRA S NAIR	60	60	5	5	
4	DHILSHA RAJEEV	60	28	5	5	
5	IRFANA KK	90	43	5	5	
6	KRIPAMARIYA	51	26	5	5	
7	MARIA JOSHNA MJ	63	51	5	5	
8	NAJA LATHEEF AT	60	50	5	5	
9	VISHNUMAYA E	60	55	5	5	

MTH2C10 - OPERATIONS RESEARCH

Sl.No	NAME	INT. I (50)	INT II (50)	ATTENDENCE	ASSIGNMENT	SEMINAR	TOTAL
1	ABHYRAMI C	16	35	5	5	5	3.8
2	AKHILA MADHU	28	36	4	5	5	4.0
3	ATHIRA S NAIR	33	39	5	5	5	4.2
4	DHILSHA RAJEEV	35	32	4	5	5	4.0
5	IRFANA K.K	35	28	5	5	5	4.2
6	KRIPAMARIYA	5	33	5	5	5	3.4
7	MARIA JOSHNA MJ	38	35	5	5	5	4.2
8	NAJA LATHEE AT	30	29	4	5	5	3.6
9	VISHNUMAYA E	48	29	5	5	5	4.6

II Semester MSc Mathematics [2022-24]

MTH2C06 - Algebra II

Sl.No.	Name	Test I (50)	Test II (50)	Attendance	Assignment	Seminar	Total
1	Abhyrami C.	30	30	5	5	5	4.2
2	Akhila Madhu	41	40	4	5	5	4.4
3	Athira S Nair	50	43	5	5	5	5.0
4	Dhilsha Rajeev	35	15	4	5	5	3.6
5	Irfana K K	32	34	5	5	5	4.2
6	Kripamariya	35	37	5	5	5	4.2
7	Maria Joshna M J	48	34	5	5	5	4.6
8	Naja Latheef A T	35	33	4	5	5	4.0
9	Vishnumaya E	50	40	5	5	5	5.0

MTH2C09 - ODE

Sl.No	Name	Test I (50)	Test II (50)	Atten.	Assign	Semin	Total
1.	Abhyrami . C	24	24	5	5	5	3.8
2.	Akhila Madhu	28	35	4	5	5	4.0
3.	Athira S Nair	46	39	5	5	5	5.0
4.	Dhilsha Rajeev	08	23	4	5	5	3.6
5.	Irfana K K	20	31	5	5	5	3.8
6.	Kripamariya	24	24	5	5	5	3.8
7.	Maria Joshna M J	27	35	5	5	5	4.2
8.	Naja Latheef A T	32	32	4	5	5	4.0
9.	Vishnumaya E	35	38	5	5	5	4.6

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ST. ALBERT'S COLLEGE (AUTONOMOUS)
ERNAKULAM

BANERJI ROAD, ERNAKULAM, KOCHI - 682018, KERALA

REV. DR. A O KONNULLY MEMORIAL RESEARCH CENTRE
&
DEPARTMENT OF MATHEMATICS AND STATISTICS

ERAKI 2023

This is to certify that Irfana k.k has participated in Tangram Competition organized by the Department of Mathematics and Statistics, St. Albert's College (Autonomous), Ernakulam on 03.02.2023 and has secured First position.

Dr. Divya Mary Daise S
Dr. Veena V S
COORDINATORS

Dr. SABU M C
HOD

Dr. BIJOY V M
PRINCIPAL

Department of Mathematics

St.Mary's College, Thrissur

Certificate

This is to certify that Mr./Ms./ Hannah Ummer . KK

S.H College, Chalakkudy has participated in the

Intercollegiate Poster Making Competition

during the year 2022-23 and has been awarded the SECOND

PRIZE

Place : Thrissur

Date : 15/03/23

Head

Dept. of Mathematics

ST MARY'S COLLEGE Re-accredited by NAAC at 'A+' Grade THRISSUR-20

Principal

Scanned with CamScanner

Department of Mathematics

St.Mary's College, Thrissur

Certificate

This is to certify that Mr./Ms./ Jeneesha Suresh
SH College, Chalakkudy has participated in the
Intercollegiate Poster Making Competition

during the year 2022-23 and has been awarded the SECOND
PRIZE

Place : Thrissur
Date : 15/03/23

Head
Dept. of Mathematics

ST. MARY'S COLLEGE
Re-accredited by NAAC
at 'A+' Grade
THRISSUR-20

Principal

Scanned with CamScanner

Sree Keralavarma College, Thrissur
Department of Mathematics

INTERNATIONAL CONFERENCE ON
RECENT TRENDS IN APPLIED GRAPH THEORY
ICRTAGT 2023

Certificate

This is to certify that Dhilsha Rajeev, Sacred Heart College, chalaKudy

Has secured Ist Prize

in the poster presentation competition as a part of International Conference on " Recent Trends in Applied Graph Theory – ICRTAGT 2023" organised by Department of Mathematics, Sree Keralavarma College, Thrissur in academic collaboration with The Kerala State Higher education Council on 1st February 2023.

Sri. Narayanamenon V A
Principal

Smt. Smruthi S
Convenor

Sree Keralavarma College, Thrissur
Department of Mathematics

INTERNATIONAL CONFERENCE ON
RECENT TRENDS IN APPLIED GRAPH THEORY
ICRTAGT 2023

Certificate

This is to certify that Vishnumaya . E , Sacred Heart College , chalakudy

Has secured 1st Prize

in the poster presentation competition as a part of International Conference on " Recent Trends in Applied Graph Theory – ICRTAGT 2023" organised by Department of Mathematics, Sree Keralavarma College, Thrissur in academic collaboration with The Kerala State Higher education Council on 1st February 2023.

Sri. Narayanamenon V A
Principal

Smt. Smruthi S
Convenor

Sree Keralavarma College, Thrissur
Department of Mathematics

INTERNATIONAL CONFERENCE ON
RECENT TRENDS IN APPLIED GRAPH THEORY
ICRTAGT 2023

Certificate

This is to certify that Dhilsha Rajeev
Sacred Heart College, chalakudy *has participated in the International Conference on "Recent Trends in Applied Graph Theory – ICRTAGT 2023" organised by Department of Mathematics, Sree Keralavarma College, Thrissur in academic collaboration with The Kerala State Higher education Council, on 1st February 2023.*

Sri. Narayanamenon V A
Principal

Smt. Smruthi S
Convenor

Sree Keralavarma College, Thrissur
Department of Mathematics

INTERNATIONAL CONFERENCE ON
RECENT TRENDS IN APPLIED GRAPH THEORY
ICRTAGT 2023

Certificate

This is to certify that Vishnumaya. E
Sacred Heart College, chalakudy *has participated in the International Conference on " Recent Trends in Applied Graph Theory – ICRTAGT 2023" organised by Department of Mathematics, Sree Keralavarma College, Thrissur in academic collaboration with The Kerala State Higher education Council , on 1st February 2023.*

Sri. Narayanamenon V A
Principal

Smt. Smruthi S
Convenor

Department of Physics

2.2.1: Assessment of the learning levels of the students.

The Assessment is measured based on internal exams, university results and performance in extra and co-curricular activities. Students were categorised into three levels of learning- Advanced learners, Medium learners and Slow learners on the basis of their plus two marks. The list of the students at different learning levels is as follows:

ACADEMIC YEAR 2022-23

I B.Sc PHYSICS

Sl. No.	Advanced Learners	Sl.No.	Medium Learners	Sl.No.	Slow Learners
1.	ANNA JOSLIN	1.	ANMARIYA BINOJ	1.	ANJALI K
2.	KRISHNAPRIYA E R	2.	SAVINA K I	2.	ARYALAKSHMI C S
		3.	ADHINANDA M NAIR	3.	DEVIKA SIVANAND
		4.	FARSANA K S	4.	JERIL JOHNSON
		5.	SIVADHA K	5.	SHANA NESRIN K A

II B.Sc PHYSICS

Sl.No.	Advanced Learners	Sl.No.	Medium Learners	Sl.No.	Slow Learners
1.	Ann Mary Joy	1.	Angel Rose Baiju	4.	Aleena Thankachan
2.	Revathy Menon	2.	S.M Chindha	5.	Nandana Murali
3.	Gopika A.M	3.	Devika K.S	6.	Swathi Sajan
4.	Shahima Azad	4.	Alisha Shaji		
		5.	Vafa Mariyam T.P		
		6.	Megha K.S		
		7.	Sethulakshmi P.M		
		8.	Aiswarya P.A		

III B.Sc PHYSICS

Sl.No.	Advanced Learners	Sl.No.	Medium Learners	Sl.No.	Slow Learners
1.	Sona Mariya	1.	Abhirami K H	1.	Lakshmi Thilakan
2.	Gauri T S	2.	Abia Cleetaus	2.	Arathi K Balan
3.	Ayana Bose	3.	Agna Rose Raju	3.	Sandra Santhosh
4.	Anjana Sajeevan	4.	AMBIKA REEN BABU	4.	Arya Sunny
5.	Anjana A B	5.	Anna Jose	5.	Satheertha T S
6.	NIYA C V	6.	ANU DASAN M D		
7.	Anagha A S	7.	BLESSY BABU		
8.	Anisha P. V	8.	Jyothi.M S		
		9.	Luluva V.S		
		10.	Nikitha k. R		
		11.	Ayisha Farheen		
		12.	Shahna.C.T		

Activities for advanced and medium learners:

- Advanced learners are motivated to participate in various technical events online courses, Webinars, Quizzes, Workshops, Lecture series etc, which are held both within and outside the institution
- Involving them to do online certification programmes.
- Giving capability enhancement programmes
- Taking up competitive exam training programmes.
- Providing placement activities

Activities for slow learners:

- Special Coaching class for slow learners.
- Providing notes for easy understanding.
- Giving capability enrichment programmes
- Giving counseling for slow learners.
- Giving additional learning materials like question bank, university question papers etc.

SACRED HEART COLLEGE, CHALAKUDY
BSc Physics Entry Level Examination 2022-23

Time: 30 Minutes **Total Marks: 20**

Answer All questions

1. Why is sky blue?

2. Product of force and velocity?

3.Two nuclei have mass numbers in the ratio 1:8. What is the ratio of their nuclear radii.

4.The mass of an atom is expressed in……

5.Universal law of gravitation is proposed by …….

6.Steel is more elastic than rubber.Why?

7. Which mission of NASA brought first human to moon.

8.Normal threshold of hearing is around….

9.What is SI unit of luminescence.

10.An artificial satellite revolve around the earth in circular orbit.Which quantity remain constant?

11. Name the physical quantity whose SI unit is coulomb/volt

12. Quality factor and power factor both have the dimensions of ……..

13. A laser beam is used for locating distant objects because…….

14. 1 and 0 are called …….

15.In the common emitter amplifier, the phase difference between the input voltage and output voltage signal across the collector and emitter is:

16.The width of the depletion layer and the potential barrier across the junction ……. due to reverse biasing.

17. In a pure capacitive circuit if the frequency of ac source is doubled, then its capacitive reactance will be ……...

18. A hole in a p-type semiconductor is-

19. The arrow in the symbol of a transistor shows the direction …….

20. Light propagates rectilinearly, due to …….

Department of Physics

2.2.1: Assessment of the learning levels of the students.

Additional Information

1) Details of the entry level exam for the assessment of the learning levels of the students

2) Participation details of advanced learners in various technical events online courses, Webinars, Quizzes, Workshops, Lecture series etc.

3) Details of Special Coaching class for slow learners

Seminar on "Exciting Scientific Research-A Career Option" Organized by the Department of Physics on 20/12/2022

Department of Physics organized a career-oriented seminar on **"Exciting Scientific Research-A Career Option"** along with the Department Association "SHARP" inauguration on 20th December 2022. Dr N. Raghu, Director, the Center for Materials for Electronic Technology (CMET), Thrissur was the resource person. Rev. Dr. Sr Irene, Principal inaugurated the programme. The purpose of the seminar was to make awareness of career and research opportunities in physics among the students. Ms Revathy Menon delivered the welcome speech.

The session began with a brief introduction to science and physics and their applications. Resource person highlighted various achievements in science, specifically a major breakthrough by Dr A.Seema, a scientist from CMET Thrissur, who invented a low-cost bra that detects breast cancer. He also pointed out the research opportunities for students in CMET and mentioned various competitive exams for pursuing careers in research fields. 64 students attended the session. The session was very informative and many students asked their queries regarding the research areas which were explained well during the session. The students responded positively and requested to conduct more career-oriented seminars.

Image 1: Resource Person, Dr. N.Raghu delivering the Talk on 20/12/2022





BROCHURE

SACRED HEART COLLEGE, CHALAKUDY

PHYSICS ASSOCIATION "SHARP"

INAUGURATION

Date: 20th December 2022 Time: 9.15 am - 1.00 pm Venue: Clare Hall

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Programme Schedule

Prayer	: Ms. Gauri T S
SHARP Report	: Ms. S M Chindha *(Association Secretary)*
Welcome Address	: Ms. Ayisha Farheen *(III DC Physics Representative & College General Secretary)*
Presidential Address	: Dr. Sr. Irene *(Principal, S H College, Chalakudy)*
Inauguration	: Dr. N Raghu *(Director, C-MET, Thrissur)*

Release of Newsletter "PHYNEWS"

Honouring the Rank Holder

Prize Distribution

Felicitations	: Dr. Tessy K L *(Associate Professor & HOD, Dept. of Zoology)*
	: Ms. Anna Julia B.Veliyan *(College Chairperson)*
Vote of thanks	: Ms. Arshna Pullikudi *(MSc Physics Class Representative)*

****

Talk by Dr. N Raghu *(Director, C-MET, Thrissur)*

****

20 DECEMBER 2022

SACRED HEART COLLEGE FOR WOMEN, CHALAKUDY

DEPARTMENT OF PHYSICS

SHARP INAUGURATION 2022-2023



CHIEF GUEST

DR. N RAGHU,
DIRECTOR, C-MET,
THRISSUR

TUESDAY, 9 : 15 AM

@CLARE HALL

SACRED HEART ASSOCIATION OF ROYAL PHYSICS

LIST OF PARTICIPANTS

SI .NO	NAME	CLASS
1	ANAGHA SURESH M	I MSc PHYSICS
2	ANUPRIYA K M	I MSc PHYSICS
3	LITTY THOMAS	I MSc PHYSICS
4	MARIN JOSE	I MSc PHYSICS
5	SAFA C V	I MSc PHYSICS
6	SOUMYA CHARLY	I MSc PHYSICS
7	VINEESHA BABU	I MSc PHYSICS
8	AIBEL JOHN	II MSc PHYSICS
9	AMEESHA K V	II MSc PHYSICS
10	ANILA K J	II MSc PHYSICS
11	ARSHNA PULLIKKUDI	II MSc PHYSICS
12	RHEBA SURESH	II MSc PHYSICS
13	RITTY LONAPPAN	II MSc PHYSICS
14	ADHINANDA M NAIR	I DC PHYSICS
15	ANJALI K	I DC PHYSICS
16	ANMARIYA BINOJ	I DC PHYSICS
17	ANNA JOSLIN	I DC PHYSICS
18	ARYALAKSHMI C S	I DC PHYSICS
19	DEVIKA SIVANAND	I DC PHYSICS
20	FARSANA K S	I DC PHYSICS
21	JERIL JOHNSON	I DC PHYSICS
22	KRISHNAPRIYA E R	I DC PHYSICS
23	SAVINA K I	I DC PHYSICS
24	SHANA NESRIN K A	I DC PHYSICS
25	SIVADHA.K	I DC PHYSICS

26	AISWARYA P A	II DC PHYSICS
27	ALEENA THANKACHAN	II DC PHYSICS
28	ALISHA SHAJI	II DC PHYSICS
29	ANGEL ROSE BAIJU	II DC PHYSICS
30	ANN MARY JOY	II DC PHYSICS
31	DEVIKA K S	II DC PHYSICS
32	GOPIKA A M	II DC PHYSICS
33	MEGHA KS	II DC PHYSICS
34	NANDANA MURALI	II DC PHYSICS
35	SETHULAKSHMI P M	II DC PHYSICS
36	SHAHIMA AZAD	II DC PHYSICS
37	SWATHI SAJAN	II DC PHYSICS
38	VAFA MARIYAM TP	II DC PHYSICS
39	REVATHY MENON	II DC PHYSICS
40	ABHIRAMI K.H	III DC PHYSICS
41	ABIA CLEETAUS	III DC PHYSICS
42	AGNA ROSE RAJU	III DC PHYSICS
43	AMBIKA REEN BABU	III DC PHYSICS
44	ANAGHA A S	III DC PHYSICS
45	ANISHA P V	III DC PHYSICS
46	ANJANA SAJEEVAN	III DC PHYSICS
47	ANJANA A B	III DC PHYSICS
48	ANNA JOSE	III DC PHYSICS
49	ANU DASAN M D	III DC PHYSICS
50	ARATHI K B	III DC PHYSICS
51	ARYA SUNNY	III DC PHYSICS
52	AYANA BOSE P C	III DC PHYSICS
53	AYISHA FARHEEN ARIPURAM A B	III DC PHYSICS
54	BLESSY BABU	III DC PHYSICS
55	GAURI T S	III DC PHYSICS

56	JYOTHI M S	III DC PHYSICS
57	LAKSHMI THILAKAN	III DC PHYSICS
58	LULUVA V S	III DC PHYSICS
59	NIKITHA K R	III DC PHYSICS
60	NIYA C V	III DC PHYSICS
61	SANDRA SANTHOSH	III DC PHYSICS
62	SATHEERTHA T S	III DC PHYSICS
63	SHAHNA C T	III DC PHYSICS
64	SONA MARIYA	III DC PHYSICS

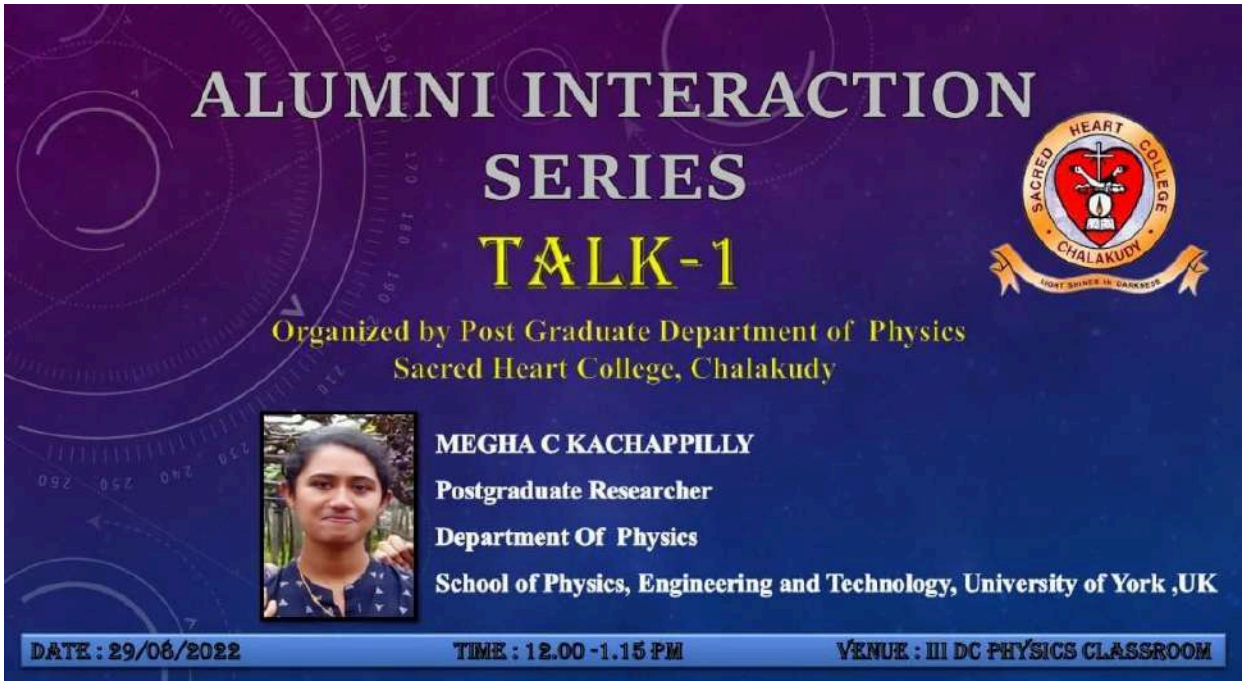
ALUMNI INTERACTION SERIES

TALK I

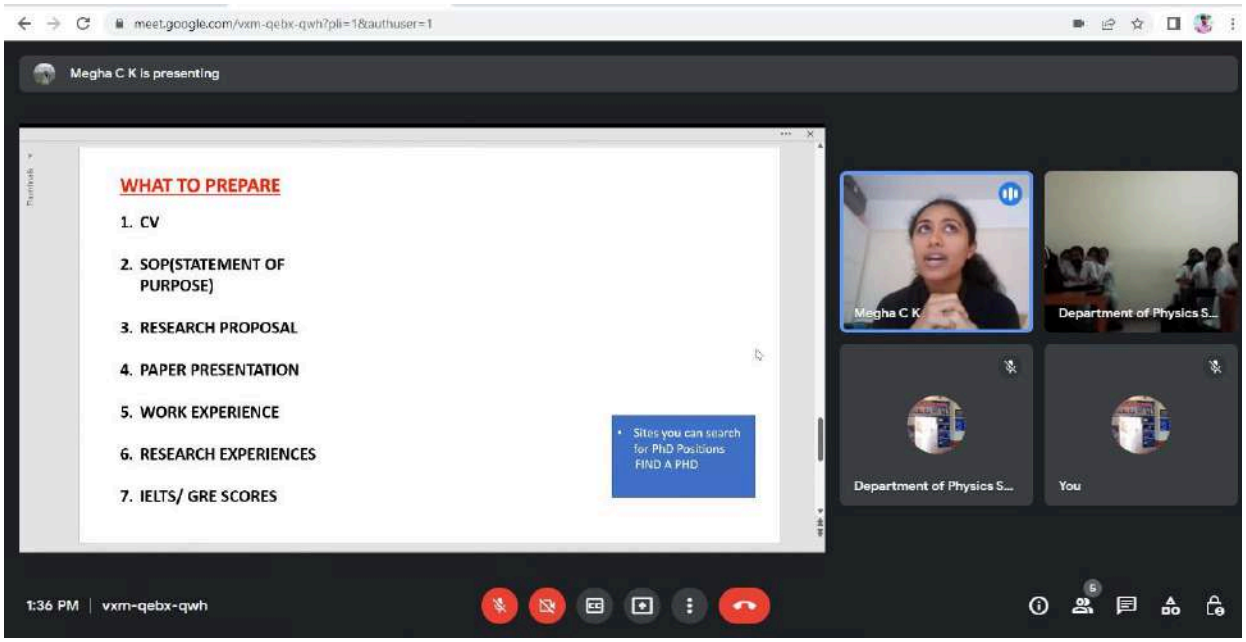
“CAREER OPPORTUNITIES IN INDIA & ABROAD”

Alumni Interaction Series is an initiative from the Physics Department which gives students the opportunity to listen to the experiences of their seniors about their journey and experiences in building up the career. This August, we welcomed our alumni, Ms. Megha C Kachappilly, Post Graduate Researcher, School of Physics, Engineering and Technology, University of York, UK, to deliver a session on “Career Opportunities in India & Abroad” on 29th August 2022 from 1:00 to 02:00 pm for the BSc and MSc Physics Students. She guided the students by sharing her experiences. She discussed the various job opportunities across the country in the field of Physics Research and other job options. She also talked about how to have a “clear plan” and “statement of purpose” for those who wish to choose their career abroad. She discussed various scholarships and financial requirements in securing a job abroad. She explained the techniques to build a good CV which helps in cracking courses in top Universities across the world. It was an interactive session with a lot of enthusiasm shown by students.

BROCHURE:


ALUMNI INTERACTION SERIES
TALK-1
Organized by Post Graduate Department of Physics
Sacred Heart College, Chalakudy
MEGHA C KACHAPPILLY
Postgraduate Researcher
Department Of Physics
School of Physics, Engineering and Technology, University of York ,UK
DATE : 29/08/2022
TIME : 12.00 -1.15 PM
VENUE : III DC PHYSICS CLASSROOM




meet.google.com/vxm-qebx-qwh?pli=1&authuser=1
Megha C K is presenting
WHAT TO PREPARE
1. CV
2. SOP(STATEMENT OF PURPOSE)
3. RESEARCH PROPOSAL
4. PAPER PRESENTATION
5. WORK EXPERIENCE
6. RESEARCH EXPERIENCES
7. IELTS/ GRE SCORES
Sites you can search for PhD Positions
FIND A PHD
Megha C K
Department of Physics S...
Department of Physics S...
You
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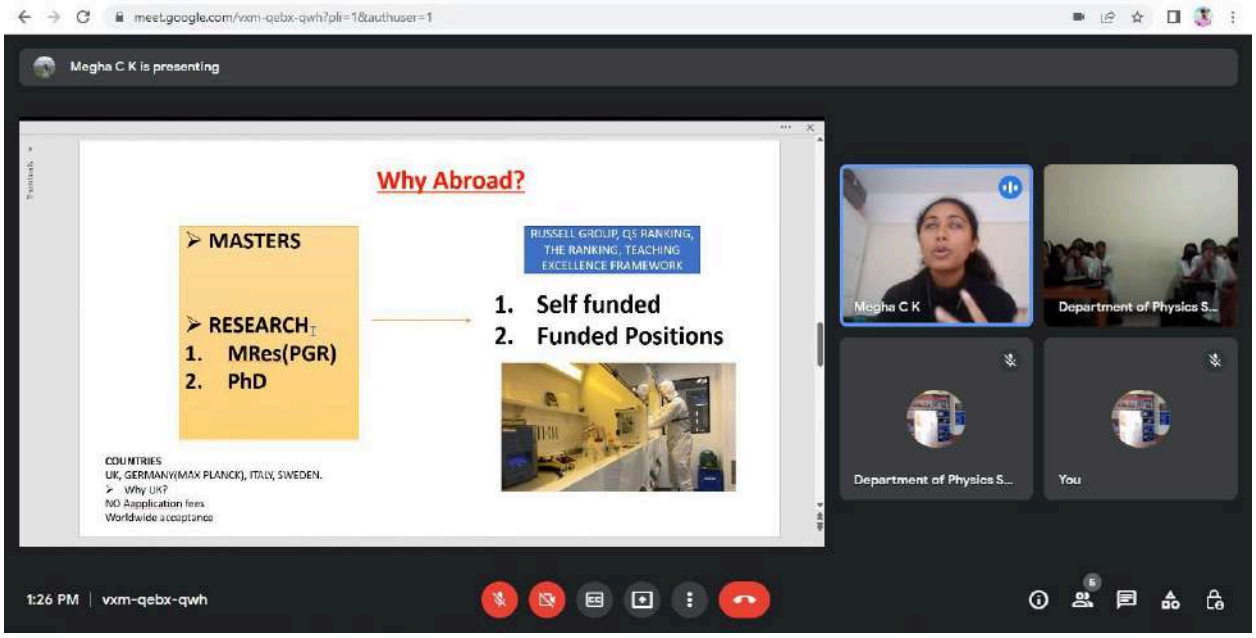
meet.google.com/vxm-qebx-qwh?pli=1&authuser=1
Megha C K is presenting
Why Abroad?
MASTERS
RESEARCH
1. MRes(PGR)
2. PhD
RUSSELL GROUP, QS RANKING, THE RANKING, TEACHING EXCELLENCE FRAMEWORK
1. Self funded
2. Funded Positions
COUNTRIES
UK, GERMANY(MAX PLANCK), ITALY, SWEDEN.
Why UK?
NO Application fees
Worldwide acceptance
Megha C K
Department of Physics S...
Department of Physics S...
You
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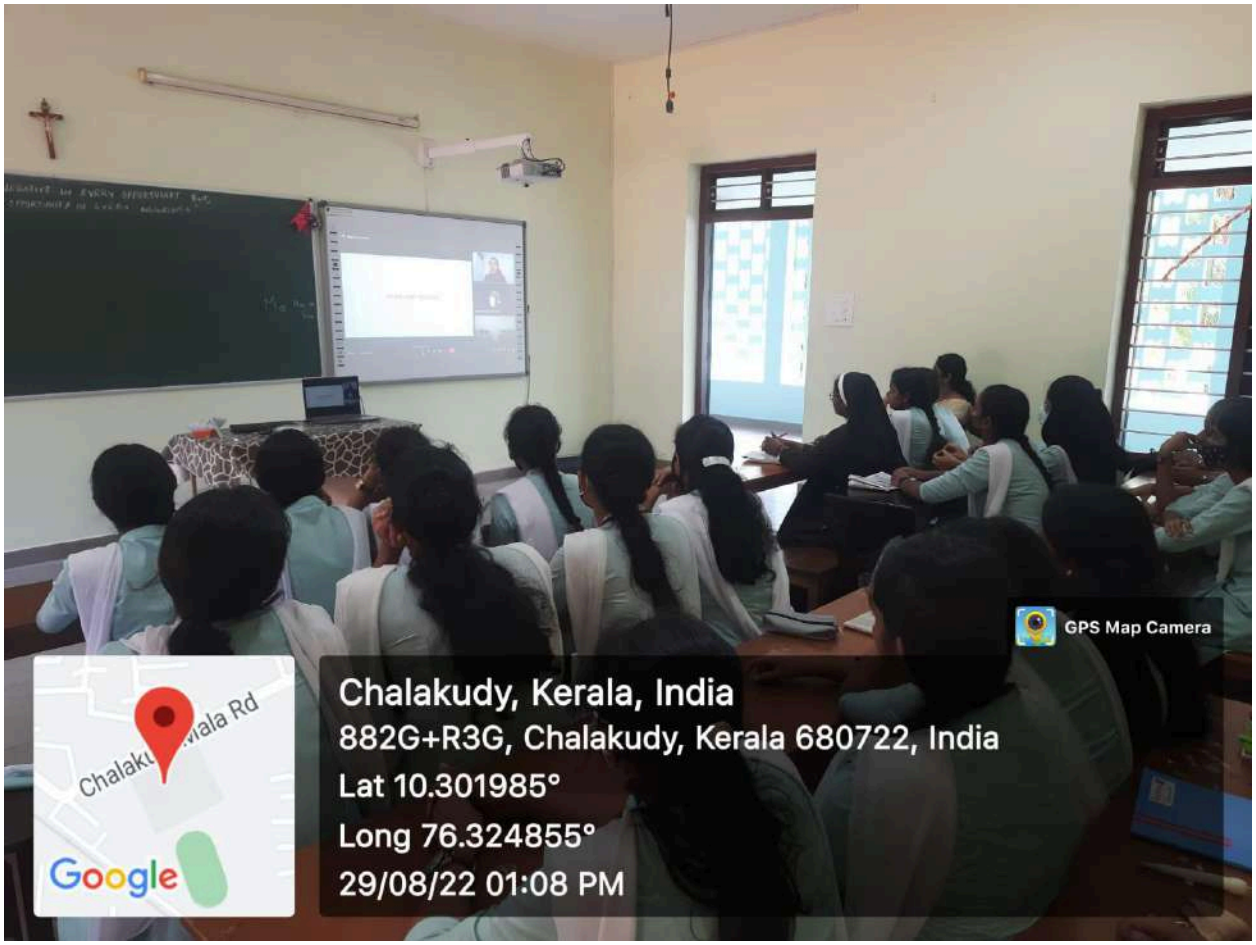

GPS Map Camera
Chalakudy, Kerala, India
882G+R3G, Chalakudy, Kerala 680722, India
Lat 10.301985°
Long 76.324855°
29/08/22 01:08 PM
Google

ALUMNI INTERACTION SERIES

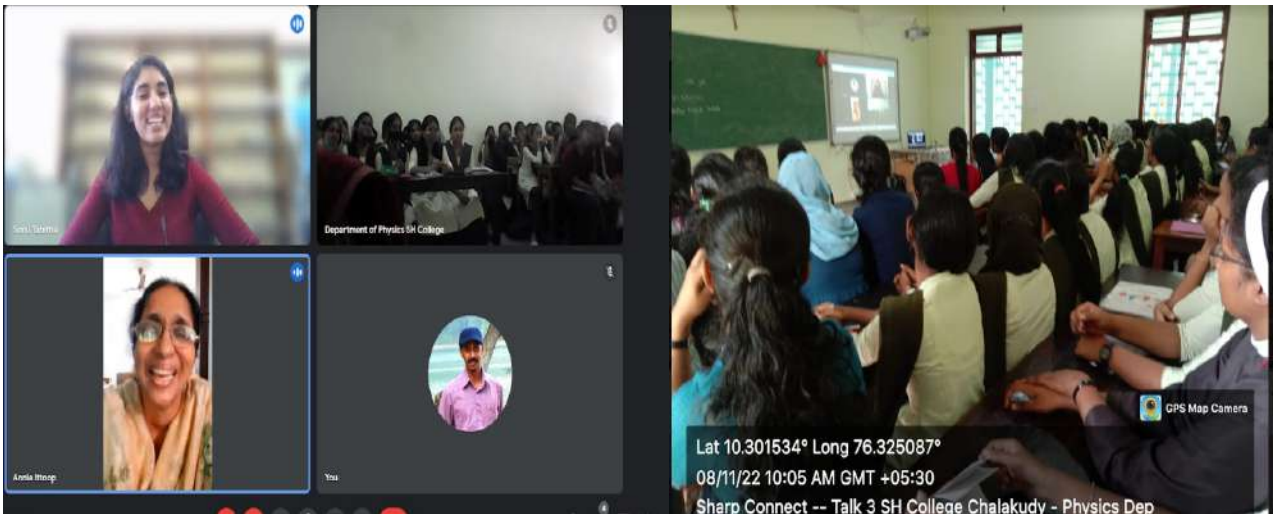
TALK III

“The world of Astrophysics”

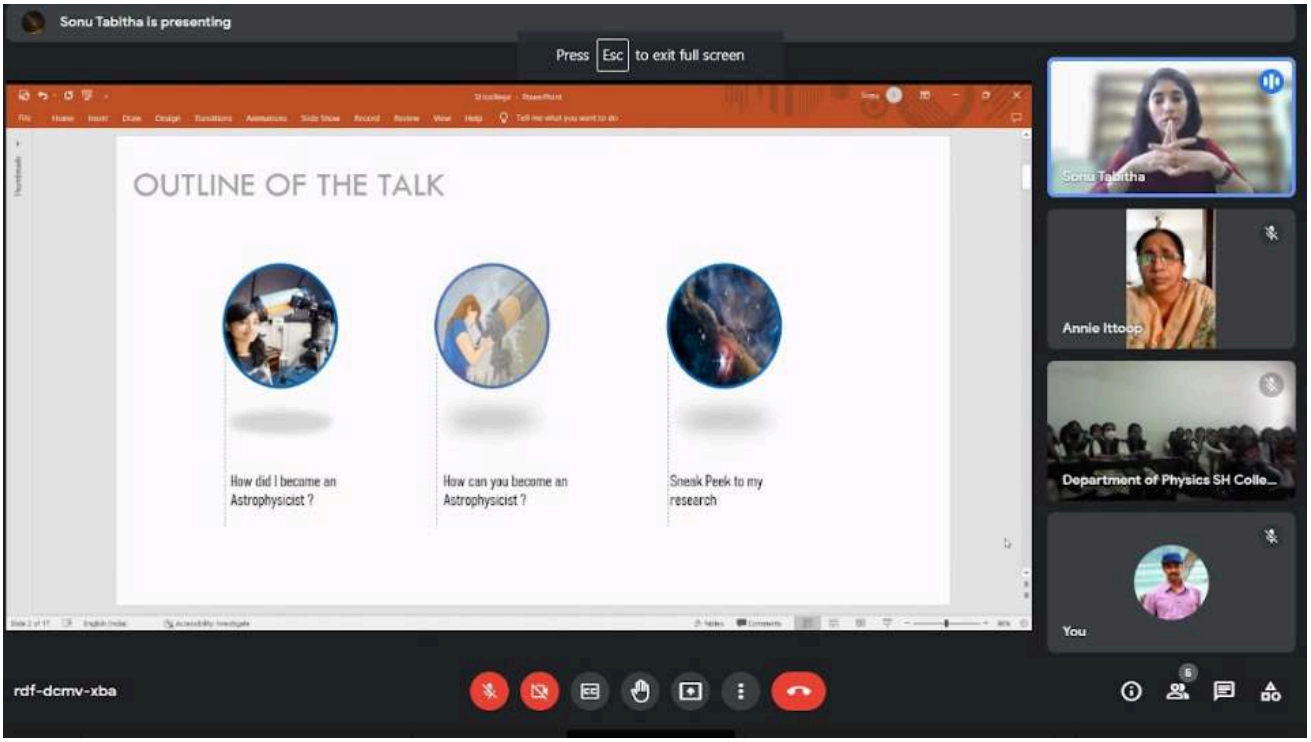
Alumni interaction is considered as a platform to rope in alumni, periodically, to share their experience and address the current batch of students . Department of Physics, Sacred Heart College, Chalakudy had organized the Third session of Alumni Interaction Series on 8th November 2022 from 10:00 to 11:00 pm for BSc and MSc Physics Students. Dr. Sonu Tabhitha Paulson was the resource person. She delivered a session on Topic:**“The world of Astrophysics”** . Dr. Sonu Tabhitha Paulson(2009-12 B.Sc. Physics batch), Postdoctoral Researcher, Department of Astronomy, Tata Institute of Fundamental Research, Mumbai . She shared her own journey of becoming an Astrophysicist. She also motivated students to take up Astrophysics as the field of research and also guided the students about how they should plan if they want to build a career in Astrophysics.She also discussed about the various industries offering research programmes.She also mentioned the alternative career opportunities for Physics students. The session was very interactive and students asked queries, which was well explained by the resource person .Students thoroughly enjoyed this extremely informative session.

Brochure


SACRED HEART COLLEGE
CHALAKUDY
Dr. Sonu Tabitha Paulson
SHARP CONNECT
ALUMNI INTERACTION SERIES
TALK 3
Dr. Sonu Tabitha Paulson
Astrophysicist|Postdoc Researcher
Department of Astronomy and Astrophysics
Tata Institute of Fundamental Research,Mumbai
Sacred Heart College: BSc. Physics 2009-12 batch
DATE November 8 ,2022
TIME 10:00 AM -11:00 AM
VENUE ||| BSc. Physics


GPS Map Camera
Lat 10.301534° Long 76.325087°
08/11/22 10:05 AM GMT +05:30
Sharp Connect -- Talk 3 SH College Chalakudy - Physics Dep


GPS Map Camera
Lat 10.301807° Long 76.325253°
08/11/22 10:14 AM
SHARP CONNECT Alumni interaction series
GPS Map Camera
Lat 10.301872° Long 76.324737°
08/11/22 10:10 AM GMT +05:30
Sharp Connect -- Talk 3 SH College Chalakudy - Physics Dep


Sonu Tabitha is presenting
Press Esc to exit full screen
OUTLINE OF THE TALK
How did I become an Astrophysicist ?
How can you become an Astrophysicist ?
Sneak Peek to my research
Sonu Tabitha
Annie Ittoop
Department of Physics SH Colle...
You
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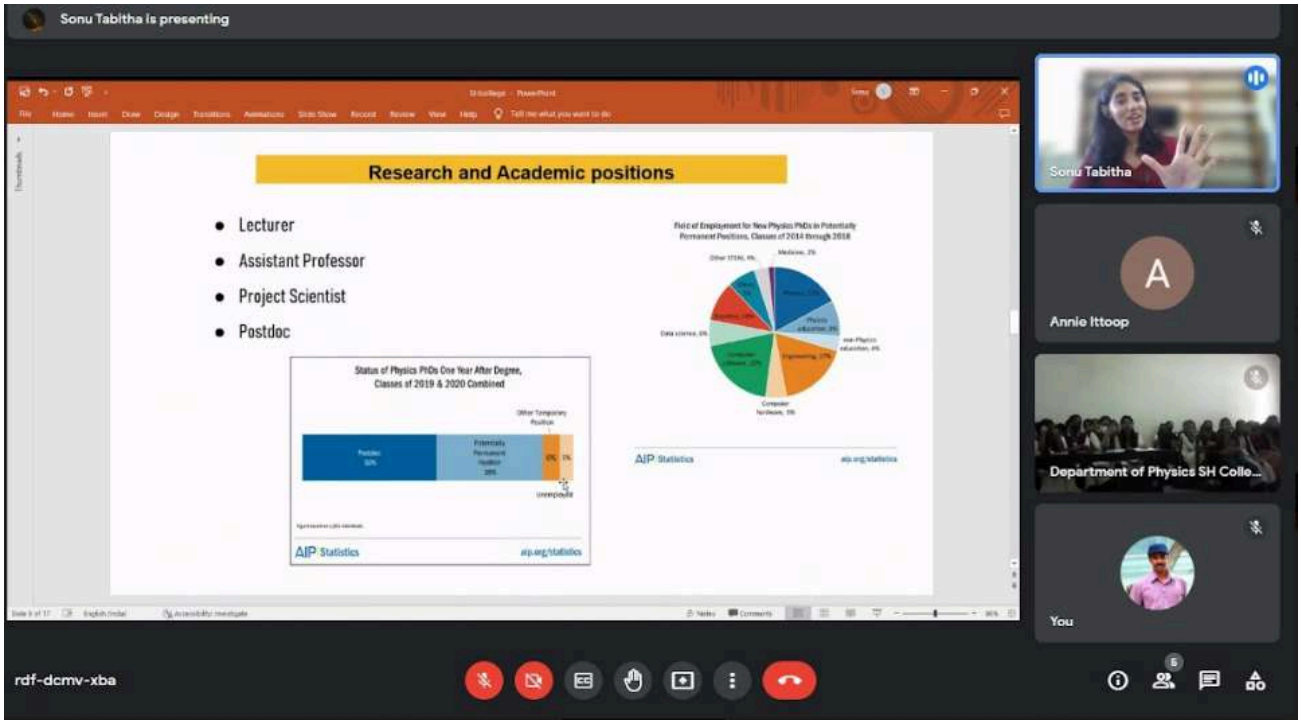
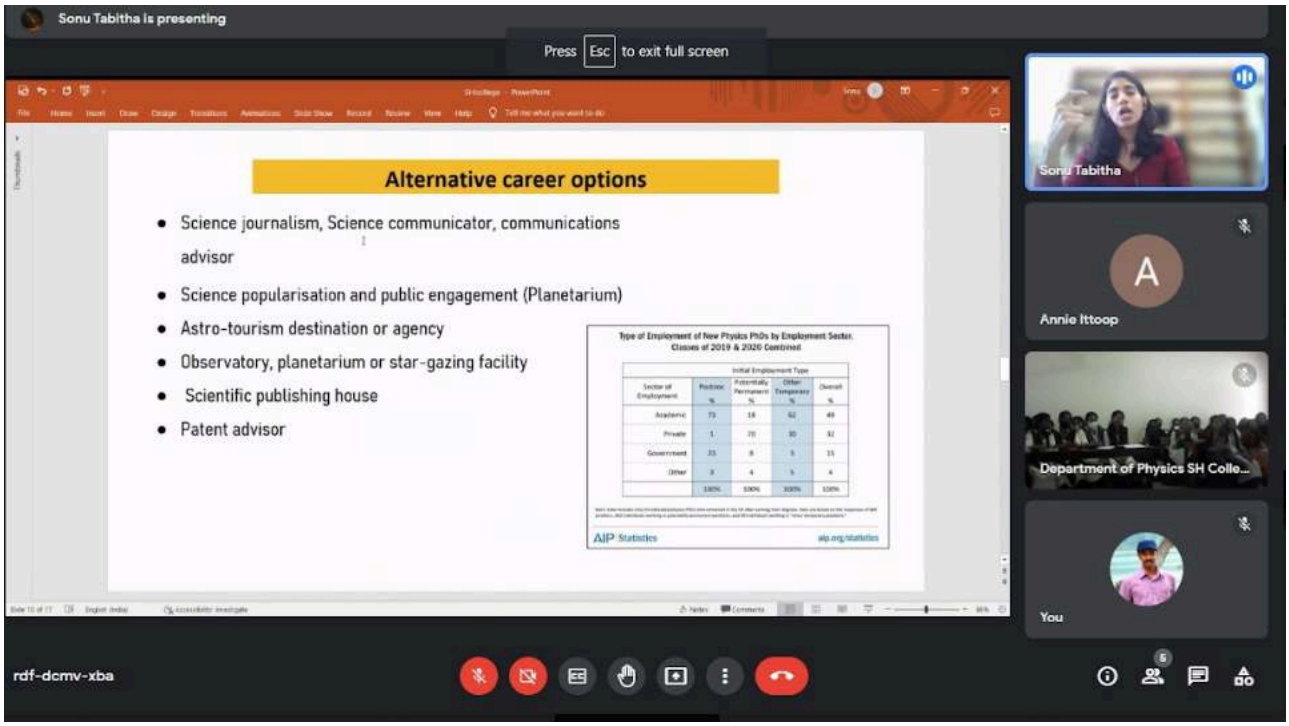

Sonu Tabitha is presenting
Research and Academic positions
Lecturer
Assistant Professor
Project Scientist
Postdoc
Status of Physics PhDs One Year After Degree, Classes of 2019 & 2020 Combined
AIP Statistics
aip.org/statistics
Field of Employment for New Physics PhDs in Potentially Permanent Positions, Classes of 2014 through 2018
AIP Statistics
Sonu Tabitha
Annie Ittoop
Department of Physics SH Colle...
You
rdf-dcmv-xba

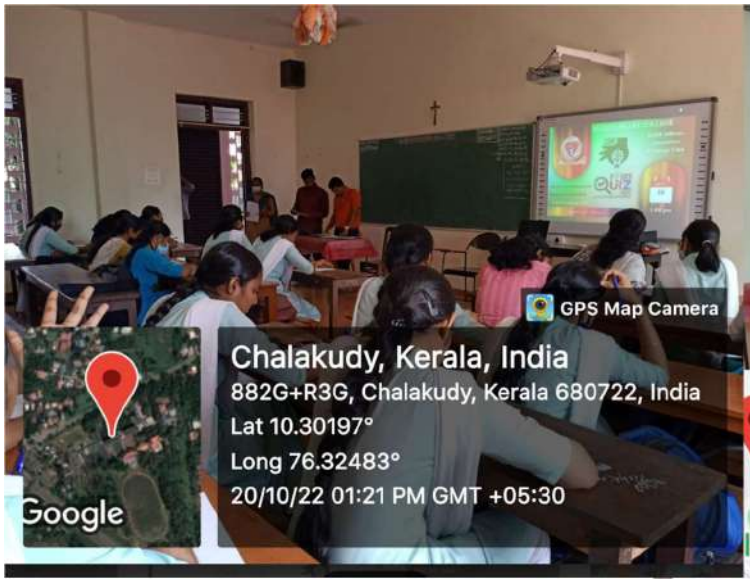

Sonu Tabitha is presenting
Press Esc to exit full screen
Alternative career options
Science journalism, Science communicator, communications advisor
Science popularisation and public engagement (Planetarium)
Astro-tourism destination or agency
Observatory, planetarium or star-gazing facility
Scientific publishing house
Patent advisor
Type of Employment of New Physics PhDs by Employment Sector, Classes of 2019 & 2020 Combined
AIP Statistics
aip.org/statistics
Sonu Tabitha
Annie Ittoop
Department of Physics SH Colle...
You
rdf-dcmv-xba

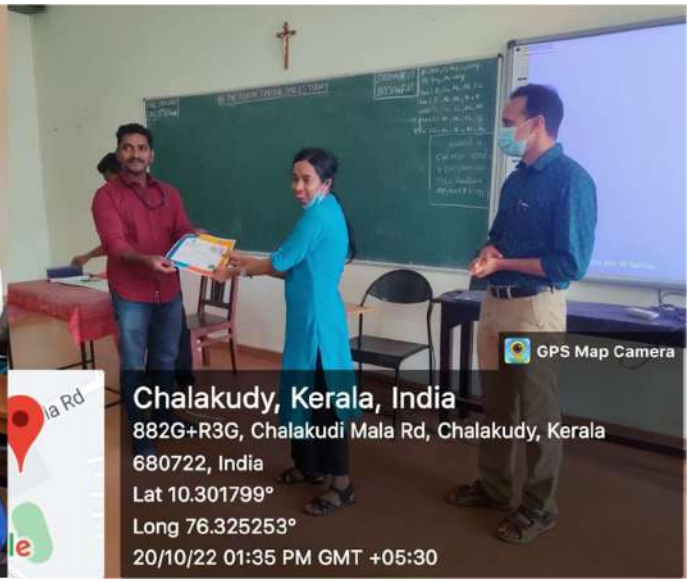
Power Quiz 2022

Energy club in association with Kerala State Electricity Board officers Association conducted a college level Quiz competition (Preliminary level) on 20th October 2022 at Sacred Heart College.Mr.Thilakan E. K. (Assistant Engineer KSEB) conducted the Quiz . 19 students participated in the quiz. Anjali K (I DC Physics) secured first position and Neena Mol U.T. (II PG physics) got second position. Both of them got selected for the next round.

BROCHURE









KSEB OFFICERS ASSOCIATION
Officers' House, TC 25/2969, Malloor Road
Thiruvananthapuram- 695035
Ph: +914712462300, Fax: 91471 2472272
info@kseboa.org, www.kseboa.org

POWER QUIZ 2022
IMAGINATION IS MORE IMPORTANT THAN KNOWLEDGE

Certificate
OF APPRECIATION

This is to Certify that ANJALI. K.
has secured first Place in the Power Quiz 2022 Preliminary Level Competition
conducted on 20 th October 2022

Chairman
Convener
Power Quiz Sub Committee

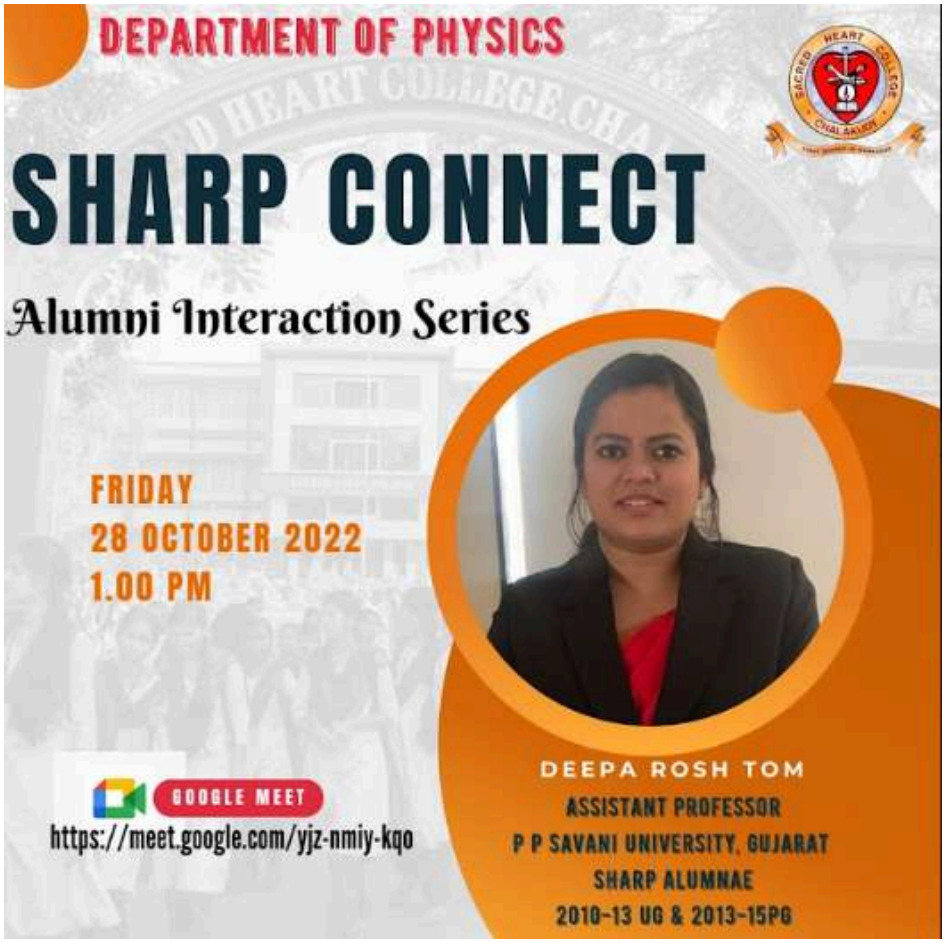
ALUMNI INTERACTION SERIES

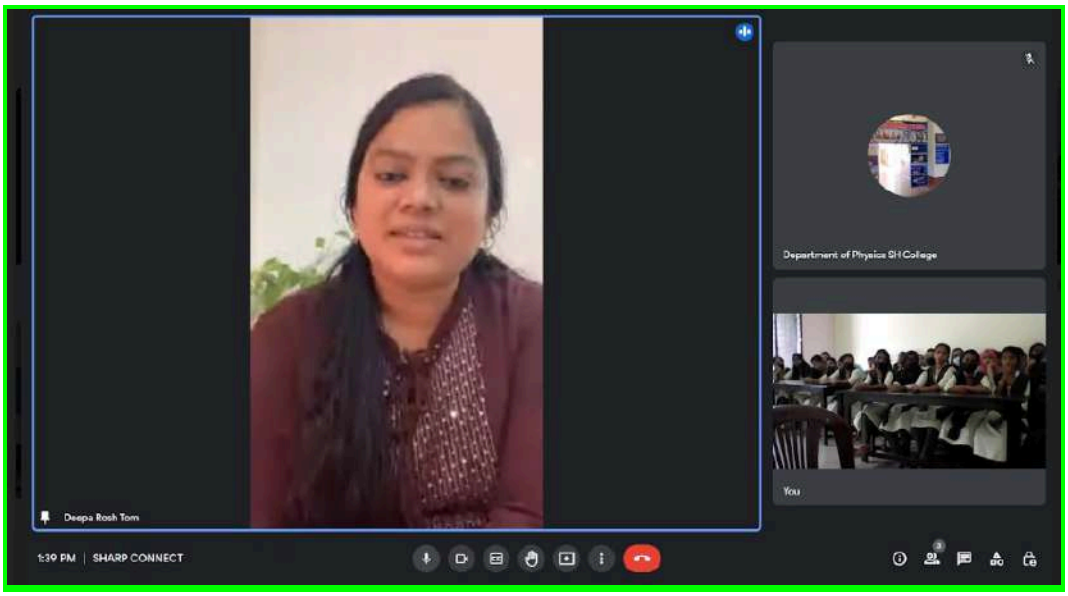
TALK II

“RESEARCH OPPORTUNITIES IN INDIA”

Alumni Connect is a significant platform which gives students the opportunity to hear from their seniors about their journey and experiences from college to the way of building their career. Department of Physics, Sacred Heart College, Chalakudy had organized the second session of Alumni Interaction Series on 28th October 2022 from 1:00 to 02:00 pm for BSc and MSc Physics Students. Ms Deepa Rosh Tom,Asst. Professor, P P Savani University, Gujarat delivered the talk on “:RESEARCH OPPORTUNITIES IN INDIA”. She guided the students by sharing her experiences throughout her research. She discussed the various research Opportunities in India, in the field of Physics.she gave a clear vision for approaching research fields, competitive exams, choosing a research guide etc. Students showed their enthusiasm by asking their doubts and queries regarding the same. The session was highly interactive and motivational.

BROCHURE:


DEPARTMENT OF PHYSICS
SACRED HEART COLLEGE
CHALAKUDY
SHARP CONNECT
Alumni Interaction Series
FRIDAY
28 OCTOBER 2022
1.00 PM
GOOGLE MEET
https://meet.google.com/yjz-nmiy-kqo
DEEPA ROSH TOM
ASSISTANT PROFESSOR
P P SAVANI UNIVERSITY, GUJARAT
SHARP ALUMNAE
2010-13 UG & 2013-15PG


Department of Physics SH College
You
Deepa Rosh Tom
1:39 PM | SHARP CONNECT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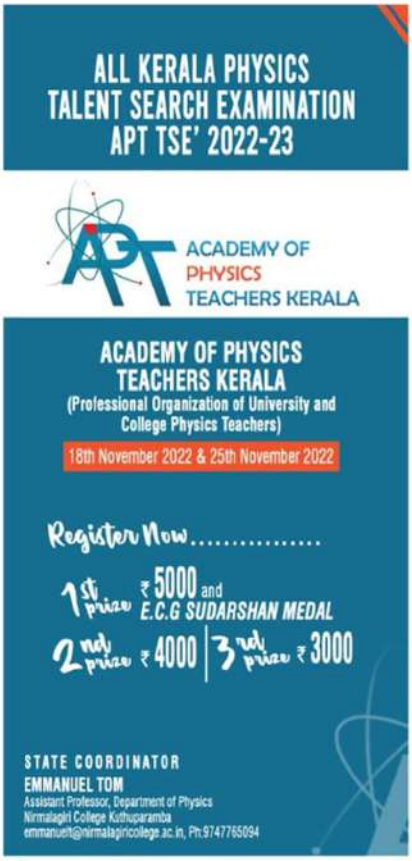
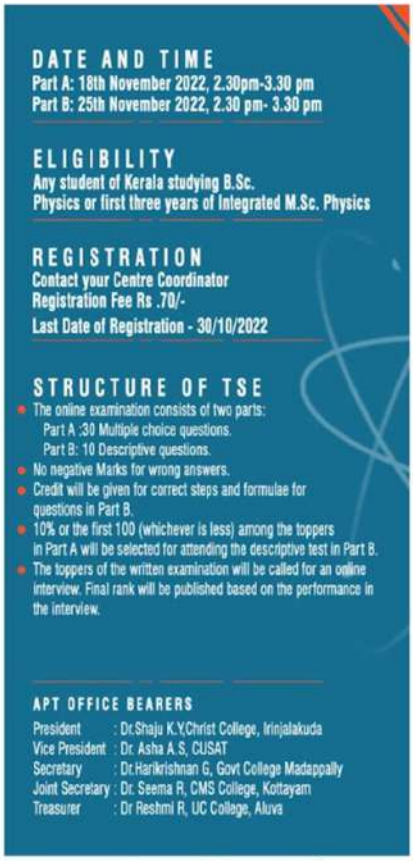
28/10/22 01:18 PM
SHARP CONNECT Alumni interaction series

APT TALENT SEARCH EXAMINATION 2022

All Kerala Physics Talent Search Examination organized by Academy of Physics Teachers(APT) Kerala was conducted at Sacred Heart College, Chalakudy on 1st December 2022, in online mode. APT Physics Talent Search examination aims to identify and recognize talented students in physics in Kerala and to promote them so that they pursue a better career in physics. Talent Search examination consists of a written examination followed by an interview. 17 students of B.Sc Physics participated in the exam from the college.







List of students participated from the college

Sl No	Register Number	Name of the Student	Contact Number	Email ID	Class
1	CLTSHC001	Adhinandha M Nair	6282471791	adhinandhamr@gmail.com	I BSc
2	CLTSHC002	Farsana K S	8113974216	farsanazanu35@gmail.com	I BSc
3	CLTSHC003	Swathi Sajan	8589891909	swathisajan2003@gmail.com	II BSc
4	CLTSHC004	Aiswarya P A	7025013164	aiswaryaarunkumar35@gmail.com	II BSc
5	CLTSHC005	Ann Mary	9037280224	amj.maliyekkal26@gmail.com	II BSc
6	CLTSHC006	Devika K S	9207983124	devikaksudheer24@gmail.com	II BSc
7	CLTSHC007	Shahana C T	7593993756	shahnaaboobacker44@gmail.com	III BSc
8	CLTSHC008	Niya C V	8921842513	niyacv13@gmail.com	III BSc
9	CLTSHC009	Sona Mariya	7306471028	sonamariya941@gmail.com	III BSc
10	CLTSHC010	Abia Cleetus	7994128533	abiacleetaus02@gmail.com	III BSc
11	CLTSHC011	Anisha Vipin	8086887261	anishavibin7@gmail.com	III BSc
12	CLTSHC012	Gauri T S	8330874240	tsgauri72@gmail.com	III BSc
13	CLTSHC013	Anna Jose	8592832334	annajose941@gmail.com	III BSc
14	CLTSHC014	Ayana Bose	8078901937	ayanabose2002@gmail.com	III BSc
15	CLTSHC015	Abhirami K H	9074431703	abhiramikh793@gmail.com	III BSc
16	CLTSHC016	Ambika Reen Babu	8547070948	ambikareen@gmail.com	III BSc
17	CLTSHC017	Agna Rose Raju	8590746287	agnaroseraju02@gmail.com	III BSc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01/12/22 02:36 PM
APT TSE Exam 2022 Department of Physics


GPS Map Camera
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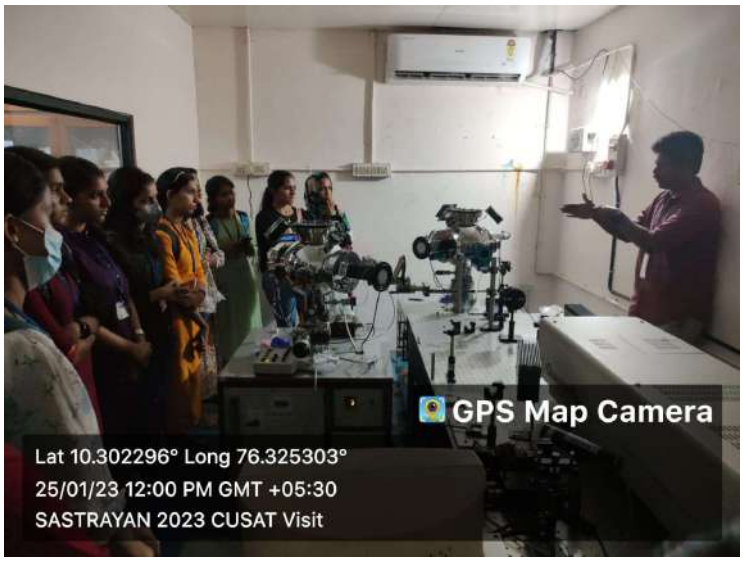
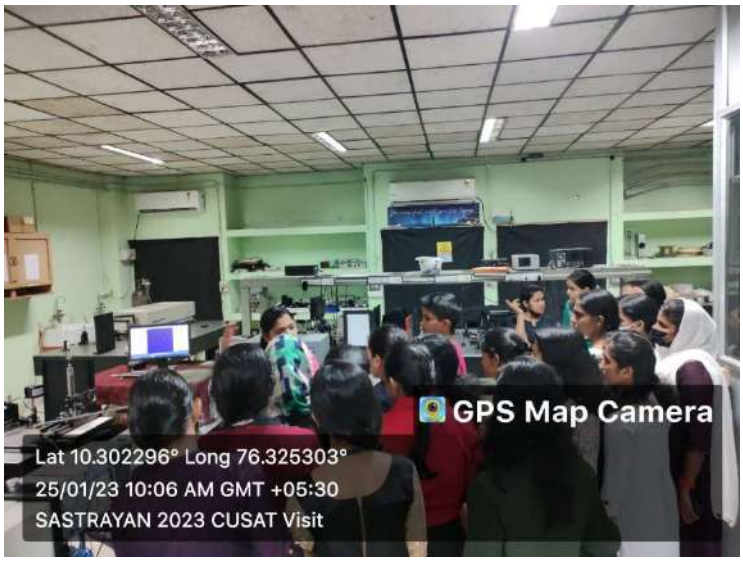
01/12/22 02:37 PM
APT TSE Exam 2022 Department of Physics

Study visit to Cochin University Research Labs 2023

A visit to Cochin University of Science and Technology (CUSAT) was conducted on 25th January 2023, as a part of CUSAT Open House, SASTHRAYAAN 2023 by the third-year BSc Physics students along with the Faculty in-charge Ms. Fency. K F. CUSAT organized this SASTHRAYAAN 2023 to showcase the vibrant and active research activities carried out in its various departments. The state-of-the-art facilities available in CUSAT were exhibited with live demonstrations, working models and presentations. 22 students were actively involved in this educational visit and they explored various labs of the International School of Photonics and around 14 labs of the Department of Physics, CUSAT. Students got valuable exposure to various cutting-edge research areas in Physics. Multiple exhibition stalls were arranged at the CUSAT Seminar complex along with illuminating visits to numerous research laboratories and departments on the CUSAT campus. This visit was organised as a part of visit to research institutes.





Staff Attendance Register

REMEDIAL COACHING 2022-23

Sl. No.	Designation	NAME	DATE / DAYS	1	2	3	4	5	6	7	8	9	10	11	12
1.		III B.Sc. Physics	M	12/7/22	17/8/22	21/9/22	11/10/22	16/11/22	29/11/22	16/12/22					
			E												
1.		Lakshmi Thilakan.	M	X	X	X	X	A	A	A					
2.		Athira K Balan	E	X	A	X	X	X	X	X					
3.		Sandra Santhosh	M	X	X	A	X	X	X	X					
4.		Arya Sunny.	E	X	X	X	X	X	X	A					
5.		Sathcartha T. S.	M	X	X	A	X	X	X	A					
			E												
			M												
			E												
		II B.Sc. Physics	M												
			E	12/7/22	14/10/22	21/11/22	9/12/22	16/1/23	27/1/23	31/1/23					
1.		Aleena Thankachan.	M	X	A	X	X	A	X	X					
2.		Nandana Murali	E	X	X	A	A	X	X	X					
3.		Swathi Sajan.	M	X	X	X	X	X	X	X					
			E												
			M												
			E												
		I Bsc. Physics.	M												
			E	27.10.22	3/11/22	15/11/22	29/11/22	09/12/22	22/12/22	24/1/22					
1.		Anjali K	M	X	X	A	X	X	X	X					
2.		Aryalakshmi C S	E	X	X	X	X	A	X	X					
3.		Devika Sivanand	M	X	X	X	A	A	X	X					
4.		Jerid. Johnson.	E	X	X	X	X	X	X	A					
5.		Shana Nessim K.A.	M	X	X	X	X	X	X	X					
			E												
			M												
			E												
			M												

Advanced learners

The Department of Psychology selects advanced learners by results of post admission tests, class tests, and classroom participation. Department conducting various programs to upgrade their standards and enhance their potentials.
Some of those programs includes:

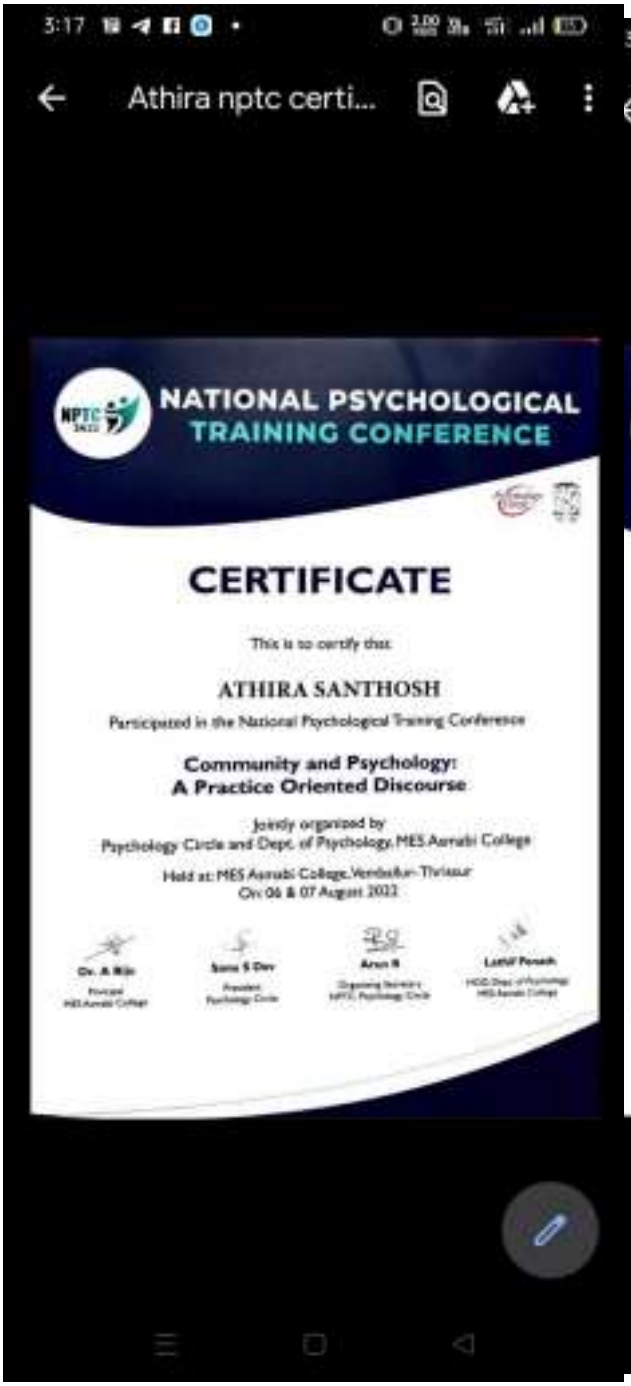
1. **Insight diving deep Research World**

This program is to develop skills in the research area of psychology. In this program students present various research papers, they select those from different journals, and websites.



2. Peer Tutoring




3:17
Athira nptc certi...
NATIONAL PSYCHOLOGICAL
TRAINING CONFERENCE
CERTIFICATE
This is to certify that
ATHIRA SANTHOSH
Participated in the National Psychological Training Conference
Community and Psychology:
A Practice Oriented Discourse
Jointly organized by
Psychology Circle and Dept. of Psychology, MES Asmabi College
Held at: MES Asmabi College, Vendalloor- Thrissur
On: 06 & 07 August 2022


3:17
Nadha nptc cert...
NATIONAL PSYCHOLOGICAL
TRAINING CONFERENCE
CERTIFICATE
This is to certify that
NADHA A
Participated in the National Psychological Training Conference
Community and Psychology:
A Practice Oriented Discourse
Jointly organized by
Psychology Circle and Dept. of Psychology, MES Asmabi College
Held at: MES Asmabi College, Vendalloor- Thrissur
On: 06 & 07 August 2022



3. National Seminar Attendance

SLOW LEARNERS

1.Remedial Teaching



2.Personal Attention



3.Peer Teaching



Department of Zoology

2.2.1 :Assessment of learning levels

2020-2023 batch

Identified the students of the year 2020 -2023 at the entry level by conducting class tests. They were categorised into three levels of learning, viz, 'Advanced learners, Average learners and Slow learners'. The list of the students at different learning levels is as follows:

Advanced learners

1. Athira Krishnan
2. Edrina Jude
3. Fathima Riyana
4. Sojiya Joy
5. Laveena Joseph
6. Lavanya Gopi
7. Jesna Basheer

Average learners

1. Anaswara N.U
2. Anakha K.A.
3. Aneeta Babu
4. Linu E.S
5. Nandhana P Nair
6. Roselit V.P.
7. Sreelakshmi R
8. Vishnupriya Lal
9. Nandhana A.P.
10. Jasna O.P
11. Bhagyasree Sreekumar
12. Sr.Dilna Sebastian
13. Anjana P.S.
14. Anupama Rajan

Slow learners

1. Sr.Athira Joy
2. Hishamol P.K
3. Nandhana Balakrishnan
4. Shincy Benny
5. Sincy Jaison
6. Amruthalakshmi

7. Gowri K. K.

The new list after assessment of the learning levels of the students

Advanced learners

1. Athira Krishnan
2. Edrina Jude
3. Fathima Riyana
4. Sojiya Joy
5. Laveena Joseph
6. Lavanya Gopi
7. Jesna Basheer
8. Anakha K.A.
9. Roselit V.P.
10. Sr.Dilna Sebastian
11. Vishnupriya Lal

Average learners

1. Anaswara N.U
2. Aneeta Babu
3. Anupama Rajan
4. Linu E.S
5. Nandhana P Nair
6. Anjana P.S.
7. Sreelakshmi R
8. Nandhana A.P.
9. Jasna O.P
10. Bhagyasree Sreekumar
11. Sincy Jaison

Slow learners

1. Sr.Athira Joy
2. Hishamol P.K
3. Nandhana Balakrishnan
4. Shincy Benny
5. Amruthalakshmi

Advanced learners were specially trained for quiz competitions, debates, seminar presentations etc. They were sent to different colleges for participating

intercollegiate competitions and they came in flying colours. Their experience and expertise were utilised for training average learners.

Average learners were further grouped into 2 and engaged peer teaching by the advanced learners once a week. The average learners were promoted based on the improvement in the internal exams to advanced learners category.

Apart from remedial coaching slow learners were given frequently asked questions from the previous year's university question papers and asked them to study and tests were given based on those questions. Based on their improvement, they were promoted to average learners category.

2021-2024 Batch

Identified the students of the year 2021 -2022 at the entry level by conducting class tests. They were categorised into three levels of learning, viz, 'Advanced learners, Average learners and Slow learners'. The list of the students at different learning levels is as follows:

Advanced learners:

1.Aryanandha J.P
2.Ritta Paul
3.Devika T.P
4.Maria Lijo

Average learners

1.Ashitha Sankar
2.Deepthimol K.B
3.Krishnagadha
4.Devika N.T

Slow learners

1.Anagha P.V
2.Lamiah Sadath
3.Nimisha Saji
4.Sreelakshmi C.R
5.Krishnapriya P.M
6.Aryanandha Mohan

After continuous evaluation the new list is as follows:

Advanced Learners

1.Devika T.P
2.Mariya Lijo

Average learners

1.Anagha P.V.

2.Krishnapriya P.M.
3.Lamiya Sadhath

Slow learner

1.Aryanandha Mohan

2022-25 batch

Advanced learners

1.Sr.Mahima Tirkey

Average learners

1.Nayana V Dev
2.Fathima Hanna
3.Nitha Fathima
4.Krishnapriya K
5.Ameena Sherin

Slow learners

1.Aiswarya P.G.
2.Saliha Beevi
3.Amrutha A.R.
4.Anamika P.V
5.Sreejitha P Mohanan

2022-24 PG Batch

1.Aswathy T.D
2.Divya Abraham
3. Drisya K.P
4. Jesteena Jose
5. Leens Tomy
6. Liya Pereira
7. Lulu Najila
8. Raghi Vasu
9. Soorya V.R

Advanced learners

1.Soorya V.R
2.Leens Tomy
3.Lulu Najila

Average Learners

1.Divya Abraham

2.Drisya K.P
3. Jesteena Jose
4.Liya Pereira
5.Aswathy T.D

Slow learner

1.Raghi Vasu

After continuous evaluation they attained the following status:

Advanced learners

1. Soorya V.R
2.Leens Tomy
3.Lulu Najila
4.Aswathy T.D
5.Liya Pereira

Average learners

1.Divya Abraham
2.Drisya K.P
3. Jesteena Jose
4.Raghi Vasu

No Slow learner

Department of Computer Science

Sacred Heart College for Woman ,Chalakudy

Criteria for categorising the students:

Calculated Over all score from 50% of qualifying examination 25% of Skill test and 25% of First internal examination:-

Over all Score >= 80 = Advance learner
Over all Score less than 80 and greater than 60 is average learner
Over all Score < 60 is slow learner

Sl.No	Admission Year	Full Name	Main Subject (Degree Programme)	Percentage of Qualifying Examination (Degre	Skill test	First Internal	Overall Score	Category of learner
1	2021	Aswini P A	Chemistry	70	16	4.9	75.5	Average Learner
2	2021	Blessy Baby	Physics	73	19	4.9	79.9	Advanced Learner
3	2021	Fansila P J	Physics	65	22	5	79.5	Average Learner
4	2021	Jesteena Joy	Physics	88	23	5	92	Advanced Learner
5	2021	Krishnanjana M G	Mathamatics	60	20	4.9	74.5	Average Learner
6	2021	Navya vasu	Physics	69	19	5	78.45	Average Learner
	2021	Sanika M B	Mathematics	68	18	5	77.15	Average Learner
7	2021	Sreelakshmi	Mathematics	60	19	5	74	Average Learner
8	2021	Sreelakshmi P M	Physics	75	22	5	84.65	Advanced Learner
1	2022	Anu Harshan	Physics	81				Average Learner
2	2022	Anuja P A	Chemistry	83				Advanced Learner
3	2022	Arshitha Shaji C	Physics	69				Average Learner
4	2022	Phoncy paul	Chemistry	81				Average Learner
5	2022	Sandra Ramachand	BSc.Computer	74				Average Learner
6	2022	Sona Biju	Physics	74				Average Learner
7	2022	Aswathy K J	Chemistry	78				Average Learner

Criteria for categorising the students:

Calculated Over all score from 50% of qualifying examination 25% of Skill test and 25% of First internal examination

Over all Score >= 80 = Advance learner

Over all Score less than 80 and greater

Over all Score < 60 is slow learner

Teacher in Charge	Year (2022-23)	Name of Students	Dates & Time
Dr. Santhosh Paul	I st & II nd	Aparna Raj. P.T	October 22 3-4 PM
		Praveena K.P	November 4 3.30-4.30
		Deepika K.R.	November 15 3-4
		Meghna Meghna Mohan	December 6 2-3
		Drishya K.	January 12 2-3
			February 16 3.30-4.30
			March. 21 3-4
Dr. Argaly Jacob.	III rd & IV	Aswini Jibi	June 16 3-4 PM
		Isha. P. Sunilkumar	July 20 3-4 PM
		Swarna. K.S	August 23 3-4 PM
		Aleena Wilson.	September 13 3-4 PM
		Bhavana. K.	November 11 3-4 PM
			January 11 3-4 PM
			February 23 3-4 PM
Dr. Laisa. A.L.	V th & VI th	Aleena Joshy.	June 15 3.30-4.30
		Aiswarya Krishnan	July 18 3.30-4.30
		Jewel Jhony.	August 26 3.30-4.30
		Sreelakshmi.	September 21 3.30-4.30
		Biju V.I	November 23. 3.30-4.30
		Anupama. K.B.	January 19 3.30-4.30
			February 15 3.30-4.30
			March. 2 3.30-4.30

Head of the Department
Department of Chemistry

2022 - 23
Advanced Learners.

60 III DC CHEMISTRY.

		14/1/23	28/1/23	18/2/23	
1	Abalya. V.L	a	x	x	Abalya
2	Akhila. A.B	x	x	x	
3	Aiswarya P.R.	x	a	x	
4	Amrutha T.K.	a	x	x	
5	Jaishna E.M.	x	x	a	
6	Jyothilakshmi A.S.	x	x	x	
7.	Shabanaz Fathima.	x	a	x	
8	Sneha Shaju	x	x	x	Sneha
9	Aleena Joy.	x	x	a	
10.	Angel Feba	x	a	x	
11	Manjima Sunil	x	x	x	
12.	Uthara T.B	a	x	x	
13	Anagha Sunil	x	a	x	Anagha
14	Megha P.P	a	a	x	
15	Pavithra R Menon	x	x	a	

M. Sc Chemistry.

		14/1/23	28/1/23	18/2/23	
1	Krishnapriya U	x	x	x	
2	Malavika T.P.	x	x	a	
3	Mayadevi. V.M	x	x	x	
4	Meera K.V	a	x	a	
5	Jeena Chandran	a	a	x	
6	Sreelakshmi. A.S.	x	x	a	
7	Aswathy S.	x	a	x	

Department of Chemistry
Sacred Heart College
Chalakudy

2022 - 23

III year B.Sc Chemistry.

46

		internal exam (%)	Seminars & Assignments	Overall Performance	SL/AL
1	Abalya V.L	83	92	95	AL
2	Aiswarya P.R	80	85	92	AL
3	Aiswarya Krishnan	75	82	80	SL
4	Akhila A.B.	94	93	92	AL
5	Amrutha T.K.	80	79	80	SL
6	Anupama K.B	60	70	68	SL
7	Biji. V.L	79	92	93	AL
8	Hiba U.	88	93	92	AL
9	Jaishna E.M.	85	90	91	AL
10	Jewel Johny.	76	78	79	SL
11	Jyothilakshmi A.S	79	93	94	AL
12	Krishna priya. C.G.	70	80	79	SL
13	Shabanaz Fathima	83	92	94	AL
14	Sneha Shaju	90	94	93	AL
15	Uthara T.B	85	93	95	AL
16	Aleena Joshy	77	72	70	SL
17	Aleena Joy.	90	92	93	AL
18	Anagha Sunil	81	94	90	AL
19	Angel Feba	91	90	94	AL
20	Ascnathy Pradeep	80	81	75	SL
21	Manjima Sanil	94	95	96	AL
22	Megha P.P	90	92	93	AL
23	Pavithra R Menon	78	76	73	SL
24	Sandra M.A.	83	82	94	AL
25	Sreelakshmi E.K.	80	70	72	SL

Group I

		June 9	July 10	August 10	September 11	October 10	November 10	December 9	January 10	February 10	March 4
1	Abalya. V.L	9	10	8	11	9	10	8	10	9	4
2	Akhila A.B	8	9	9	10	10	9	9	9	8	3
3	Aiswarya P.R	9	10	10	11	10	9	9	10	10	4
4	Aiswarya Krishnan	8	10	10	11	9	10	8	10	9	3
5	Amrutha T.K	8	9	9	10	9	9	9	9	10	3

Group II

		June 9	July 10	August 10	September 11	October 10	November 10	December 9	January 10	February 10	March 4
1	Biji. V.L	9	8	9	11	9	9	7	11	8	3
2	Hiba U	8	9	10	10	8	10	8	10	9	4
3	Anupama K.B	9	9	8	11	10	10	9	9	8	3
4	Jaishna E.M	8	8	10	11	9	8	9	11	9	4
5	Jewel Johny	7	9	9	10	8	9	7	9	8	3

Group III

		June 9	July 10	August 10	September 11	October 10	November 10	December 9	January 10	February 10	March 4
1	Jyothilakshmi. A.S	9	9	10	10	9	9	8	10	10	4
2	Sneha Shaju	8	8	8	11	10	9	9	9	8	3
3	Shabanaz Fathima	7	10	9	10	10	10	9	10	10	4
4	Krishnapriya. C.G	9	9	9	11	9	9	8	9	10	4
5	Aleena Joshy	9	10	10	11	8	10	8	9	8	3

Group IV

		June 9	July 10	August 10	September 11	October 10	November 10	December 9	January 10	February 10	March 4
1	Uthara T.B	8	9	10	11	9	9	9	10	9	3
2	Aleena Joy	7	10	9	11	10	9	8	10	10	4
3	Angha Sunil	9	10	10	10	9	10	9	9	8	3
4	Angel Feba	9	9	9	11	10	10	8	9	8	4
5	Aswathy Pradeep	8	9	9	11	10	9	8	10	9	4

Group V

		June 9	July 10	August 10	September 11	October 10	November 10	December 9	January 10	February 10	March 4
1	Mangina Sunil	8	9	10	11	9	10	8	10	9	4
2	Megha. P.P	8	10	9	11	9	10	8	9	9	3
3	Pavithra R Menon	9	10	10	10	10	9	9	10	10	4
4	Sandra M.A	9	9	9	10	10	9	9	9	9	3
5	Sreelakshmi. E.K	8	10	10	11	9	10	8	10	8	4

II year. B.Sc. Chemistry.

50 2022-2023

	Name	internal exam (%)	Seminars & assignment	Overall Performance	AL/SL	
1	Abhirami K.S	79	93	94	AL	
2	~~Avanya A~~	c				
3	Hridaya Subash	92	90	93	AL	
43	Isha P Sunilkumar	70	80	84	SL	
5	Sreenandhana B.S.	82	89	91	AL	
5	Swarna K.S.	79	93	90	AL	
6	Aleena Wilson	70	75	71	SL	
8	Anagha Sunil	94	93	92	AL	
8	Aswini Jibi	86	92	90	AL	
8	Bhavana K	78	72	70	SL	
10	Deepthi K	82	90	92	AL	
11	Efriya P.J	88	92	94	AL	
12	Emil mariya	75	72	73	SL	
13	Jesna Jofy.	78	92	91	AL	
14	Niveditha P Subhash	88	87	89	AL	
15	Soupernika T.J.	85	92	90	AL	

QP I		June (9)	July (10)	August (11)	September (9)	October (10)	November (11)	December (9)	January (8)	February (9)	March 10
1	Abhirami A.S	9	10	11	9	10	11	9	8	9	10
2	Hridaya Subhash	8	9	11	8	9	10	9	8	9	9
3	Sreenandhana. BS	7	8	10	7	10	11	8	7	8	10
4	Isha P Sunilkumar	9	7	9	9	10	10	7	8	8	9
5	Aleena Wilson	8	10	11	7	9	11	9	8	9	9
QP II 1	Swarna K.S.	7	10	10	7	9	10	8	7	8	9
2	Anagha Sunil	9	9	10	8	8	10	7	7	9	10
3	Aswini Jibi	9	7	11	8	10	11	9	8	9	10
4	Bhavana K.	8	10	11	9	10	11	8	7	8	8
5	Deepthi K	9	8	10	9	9	9	7	7	9	10
QP III 1	Efriya P.J	9	9	10	8	9	10	9	8	9	9
2	Emil Maria	8	10	9	8	10	11	7	7	8	7
3	Jesna Jofy.	7	8	9	7	10	10	8	8	7	8
4	Niveditha P.S.	7	9	10	7	8	11	9	7	8	10
5	Soupernika T.J	9	10	10	8	8	9	7	8	8	9

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	Name	Entry level exam	qualifying exam	Overall Performance	AL/SL
1	Ameena Nugain UN	96	92	94	AL
2	Aparna Raj P T	72	71	79	SL
3	Aysha Rafeek	94	95	93	AL
4	Drishya K	84	89	90	AL
5	Deepika K.R.	77	80	79	SL
6	Meghana Mohan	70	79	75	SL
7	Nourin K P	89	84	76	SL
8	Praveena K P.	58	74	72	SL
9	Shiga P Sunilkumar.	94	90	89	AL

	Name.	October	November	December	January	February	March.
gp I	1 Ameena Nugain	11	9	7	10	9	11
	2 Aparna Raj P.T	7	8	8	8	8	7
	3 Nourin K.P.	9	7	8	10	7	9
gp II	1 Aysha Rafeek	10	9	7	7	9	10
	2 Deepika K.R	10	9	7	8	8	9
	3 Praveena K.P	9	8	6	8	8	10
gp III	1 Drishya K	9	11	9	7	10	9
	2 Meghana Mohan	10	9	8	7	10	11
	3 Shiga P Sunilkumar	10	11	7	9	9	11

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I year M.Sc. Chemistry.

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Entry level qualifying

		Internal exam marks (%)	Seminar & Assignments	Overall Performances	AL / SL
1	Nazin A.N	75	78	79	SL
2	Anjana V.M.	78	80	82	AL
3	Vyshnavi Kartha	69	69	70	SL
4	Reshma CC	67	70	71	SL
5	Vishnupriya VR	75	79	80	SL
6	Celina. K.F	78	82	83	AL
7	Riya Rasana R.R.	83	84	83	AL
8	Theertha Krishna	75	79	79	SL
9	Sneha C.S	77	80	79	SL
10	Shanibha	81	83	82	AL

	Advanced Learners
1.	Anjana. V.M
2.	Celina. K.F
3.	Riya Razana
4.	Shanibha. S

	Slow Learners
1.	Nazin. A.N
2.	Vyshnavi Kartha
3.	Reshma. C.C
4.	Vishnupriya. C C
5.	Theertha Krishna
6.	Sneha. C S

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II year M.Sc. Chemistry.

		Internal Marks (%)	Seminars & Assignments	over all Performance	AL/SL
1	Krishnapriya U	85	84	86	AL
2	Malavika T.P	80	81	82.	AL
3	Akhila M.S.	75	79	78	SL
4	Mayadevi. V.M	82	83	83	AL
5	Aiswarya Mariya	80	78	80	SL
6	Meena K.V.	83	85	88	AL
7	Jeena Chandran	85	88	87	AL
8	~~Jesna Jofy~~ Brilly.	78	79	78	SL
9	Ansamol K.S.	78	78	80	SL
10	Aswathi. S.	81	85	84	AL
11	Sreelakshmi A.S.	85	89	88	AL
12	Nivedhya Rajesh.	80	78	79	SL

Advanced Learners		Slow learners.
1. Krishnapriya. U.	1	Akhila. M.S
2. Malavika. T.P	2.	Aiswarya. Mariya.
3. Mayadevi. V.M	3.	Brilly Thomas.
4. Meena. K.V	4.	Ansamol. K. Shajan.
5. Jeena chandran.	5.	Nivedhya Rajeesh.
6. ~~Advanced~~ Aswathy S.		
7. Sreelakshmi. A.S		