

SCHOOL OF FRESHMAN ENGINEERING



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Program Schedule 1





Hour/ Day	9 am-10 am	10 am -11 am	11am -12 noon	12.00 - 01.00 pm	$1 \ pm - 2 \ pm$	2 pm -3 pm	3 pm – 4 pm	4 pm – 5 pm
Monday (21.08.2023)						to Hostel		
Tuesday (22.08.2023)	Ice breaking (Class Coordinator)	Yoga (Dr. Sethuraman & Team)	Yoga (Dr. Sethuraman & Team)		Computing Proficiency (Dr. Kannan & Team)	Computing Proficiency (Dr. Kannan & Team)	Sports (Physical Director	Sports (Physical Director
Wednesday (23.08.2023)	Know your academics Director (Academic)	Examination process (CoE)	Fly abroad Director (International Relations)		Universal Human Values-1 (Health)	Universal Human Values-1 (Health)	Corporate Talk Director (Corporate Relations)	Corporate Talk Director (Corporate Relations)
Thursday (24.08.2023)	Competition Track – I (SMACE)	Competition Track – I (SMACE)	Competition Track – I (SMACE)		Competition Track – I (SMACE)	Competition Track – I (SMACE)	Competition Track – I (SMACE)	Sports (Physical Director)
Friday (25.08.2023)	Student's activities Director (Student's affairs)	Campus life Director (Campus Relations)	Become Entrepreneur (IEDC Coordinator)		Universal Human Values-2 (Social wellbeing)	Universal Human Values-2 (Social wellbeing)	Universal Human Values-3 (Life style, character building)	Universal Human Values-3 (Life style, character building)
Monday (28.08.2023)	Competition Track – II (SEET)	Competition Track – II (SEET)	Competition Track – II (SEET)		Competition Track – II (SEET)	Competition Track – II (SEET)	Competition Track – II (SEET)	Sports (Physical Director)
Tuesday (29.08.2023)	Mentoring (Class Coordinator	Motivational Talk	Motivational Talk		Interaction with peer students	Interaction with peer students	Sports (Physical Director)	Sports (Physical Director)
Wednesday (30.08.2023)	Competition Track – III (SAS)	Competition Track – III (SAS)	Competition Track – III (SAS)		Competition Track – III (SAS)	Competition Track – III (SAS)	Competition Track – III (SAS)	Sports (Physical Director)
Thursday (31.08.2023)	Visit in Local Area	Visit in Local Area	Visit in Local Area		Visit in Local Area	Visit in Local Area	Visit in Local Area	Visit in Local Area
Friday (01.09.2023)	Mentoring (Class Coordinator)	English Proficiency (Dr. Jothi & BEC Team)	English Proficiency (Dr. Jothi & BEC Team)		Mentoring (Class Coordinator)	Feedback Session (Class Coordinator)	Sports (Physical Director)	Sports (Physical Director)
Saturday (02.09.2023)	Cultural day (Fine Arts Club)	Cultural day (Fine Arts Club)	Cultural day (Fine Arts Club)		Cultural day (Fine Arts Club)	Cultural day (Fine Arts Club)	Cultural day (Fine Arts Club)	Cultural day (Fine Arts Club)

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Contact Details for FIP (2023 - 2024)

	FIP -2023 Core Team						Section Incharges				
	S.No Faculty Coordina		y Coordinator	Mobile No.		Section	Class coordinator		Mo	Mobile 9789479594	
- 1	1	Dr. S. Suresh K	umar (Mech)	9894665963 9944702898 9943440532 8940582354		A01 Dr. B. R. A		avind (ENG) 9789			
- 1	2	Dr. S. Jeyavijay	an (Phy)			A02	A02 Dr. K. Thanga A03 Dr. S. Thangar			386378 407491	
	3	Dr. M. Krishna	Paramathma (EEE)			A03					
	4	Dr. M. Karuppa	samypandian (EEE)			A04	Dr. SKM. Pot	hinathan (Civil)	99948	9994875787	
S.No		Activity	Faculty Coordinator	Mobile No.	S.No	A	ctivity	ity Faculty Coor		Mobile No.	
1		Yoga	Dr. K. Thangapandi	9080386378	12	Know yo	our academics	Dr. A. Arivarasan		9940776478	
2		Sports	Dr. K. Thangapandi	9080386378	13	Examin	ation process	Dr. P. Sundaresan		9488080147	
3		etition Track - I (SMACE)	Dr. S. Gowthaman	9486838520	14	Car	npus life	Dr. P. Karthik		860812488	
4	Compe	tition Track – II (SEET)	Dr. V. Prakash	9442969918	15	Studen	t's activities Dr. P. Deve		ndran	9488004793	
5	Compe	tition Track - III (SAS)	Dr. P. Selvarengan	8220367387	16	Fly	abroad Dr. M. Sivan Saraswati			9994162385	
6	Engli	ish Proficiency	Dr.C.Jothi	7502587098	17	Become	Entrepreneur Dr. G. Ch		itra	9597480891	
7	Compu	ting Proficiency	Dr.K.S.Kannan	9626042268	18	Corp	orate Talk Dr. Ta		rasi	8012214342	
8	~	versal Human Values-1	Dr. S. Mohan	9894162738	19	Motiva	ational Talk	Dr. A. Arivarasan		9940776478	
9		versal Human Values-2	Mr. M. Matheswaran	9840115044	20		ion with peer ed students	Dr. K. Gurusamy		9865169536	
10	~	versal Human Values-3	Dr. V.T. Muthukani	8148308322	21	Feedb	back Session Mrs. S.		Kiruba	770808196	
11	Visit	in Local Area	Dr. S. Thangarasu	8428407491	22	Cul	tural day	Dr. D. Gee	tha	934470265	

 Visit in Local Area
 Dr. S. Thangarasu
 8428407491
 22
 Cultural day
 Transport related issues: Mr. Jeyachandran-7845357318

	HOS	TEL HELP DESK	(I" YEAR STUDENTS)	1. 19	
Hostel Name	Name of Warden	Mobile No.	Hostel Name	Name of Warden	Mobile No.
NELSON MANDELA (MH I)	P.Sundaresan	9488080147	ANNAI THERASA (LH 2)	Dr. M.Sornalakshmi	9176311411
LSON MANDELA (MH I)	C.Samstephen	9789221864	ANNAI IHERASA (LH 2)	M. Vanaragavi	6384001988
MENC HOSTEL AS	Dr. V.Dineshkumar	8838382371	DEDICONDUCTOR	Dr. S.Viji	7200825816
MENS HOSTEL (V)	G.Muthu Palanivel	6384001983	INDRA GANDHI (LH 3)	K.Muthulakshmi	6384001993
MENO BOOTEL AND	B.Veerasami	9751702400			
MENS HOSTEL (VII)	P.Pandi	6380585282			



School of Freshman Engineering Freshman Induction Programme 2023-2024 A Report

Freshman Induction Programme was kick started by a grand inaugural on 21 August 2023 at 11 am in our University Sports Arena to extend a red carpet welcome to the first-year students who were admitted to the Engineering Programmes. The objective of the programme was to inform parents and students about the academic aspects of the course, and the university's rules and regulations, and to encourage parental involvement in monitoring students progress.

The inauguration was graced by the presence of Mr. Ramchandar Duraisamy, Director of Business Operations at Codoid Innovations Pvt Ltd, Chennai, along with notable dignitaries such as Dr. K. Sridharan, Chancellor of KARE, Dr. S. Narayanan, Vice Chancellor of KARE, Dr. S. Shasi Anand, Vice President of KARE, Dr. V. Vasudevan, Registrar of KARE, and Dr. N. Rajini, Dean of Freshman Engineering at KARE.

The programme began with the lighting of the lamp by the dignitaries. Dr. S. NarayananVice Chancellor, KARE welcomed the distinguished guests, management, students, parents, and faculty to KARE and gave a brief introduction about the university. Dr. V. Vasudevan Registrar, KARE introduced the officials, while Dr. N. Rajini Dean-Freshman Engineering, KARE provided a clear introduction aboutFIP-2023. Mr. A. Lingusamy, Director of Admissions at KARE, addressed the parents and students, and Mr. Raju, Admission Associate at KARE, offered a special note to the parents and greeted the students. Dr. K. Sridharan Chancellor, KARE delivered Presidential address to the parents and students, discussing the administrative and course systems and sharing inspiring words from the former Prime Minister, Dr. A. P. J. Abdul Kalam as well. Dr. S. Shasi Anand Vice president, KARE felicitated the students and parents, highlighting the importance of education and technology.

The Guest of Honour, Mr. Ramchandar Duraisamy, gave the Inaugural Address and shared his experiences as a successful businessman. He urged the students to keep up with changing trends in engineering and to prioritize their studies. He emphasized the importance of constantly working towards becoming the best in their field and wished the first-year students a warm welcome to the college. The Freshman Induction programme concluded with a vote of thanks delivered by Dr. A. Samson Nesaraj, Director of Student Affairs at KARE, followed by the National Anthem. Freshman Induction Programme comprised the following activities that started from 22 August 2023 to 02 September 2023.





2 Interaction with Peer Students

Youngsters and teens benefit from the social and consistent encouragement that companions offer. Peer connections give a novel setting in which youngsters get familiar with a scope of basic social profound abilities, like compassion, participation, and critical thinking methodologies. Friends can be strong powers that work with or on the other hand undermine group programmes. Peers, or a group of people who have similar interests, age, background, or social status, serve as an essential source of information, feedback, and support to individuals as they establish their sense of self. With this notion the Freshman induction Programme started with an Interaction with Peer Students to break the coldness and make the students feel more relaxed and comfortable from the start.

Learning Outcome: Learning through interaction with the peer groups makes them become more confident and exhibit their latent talents



Peer group interaction



3 English Proficiency

Literacy Proficiency entertains and gives aesthetic pleasure of learning a flawless language. The focus is on the words themselves and on a conscious and deliberate arrangement of the words to produce a pleasing or enriching effect.. The motto of this activity is to hone the communication skills of the freshers who step into a new environment. This session is more than an ice breaker for the session begins with a brief self- introduction cum two truths and a lie about you which brings the students out of their comfort zone. This activity breaks the rigidity of a student and gives confidence to face the audience at the first hand. Once they finish this activity, they get rid of the stage fear and get exposed to. From then on, they take an active and voluntary participation in other activities like Building Vocabulary (like brain storming listing out words related to a theme), Run to the board (writing thematic words on the board based on the topic), Memory test, Story Reading and Narrating, Mini Presentation and Group Discussion. The activities focus on enhancing the listening, speaking, reading and writing skills of the students.

Learning Outcome: Learning vocabulary and enhancing communication skills through entertainment



Active participation of the students in activities to enrich vocabulary





Participation of students in Presentations and Memory Test



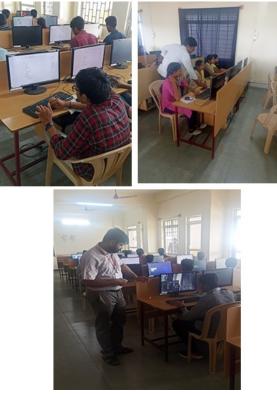




4 Computer Proficiency

Computer Proficiency is an activity based learning which covers the fundamental concepts and components such as binary system, hardware, software, central processing unit, storage devices, memory, operating systems, and networking and internet that form the basis of computer systems. The faculty enlightened the students in terms of system numeration and syntax starters. System numeration, is also known as numeral systems or number systems, which refers to the way numbers are represented and expressed using symbols or digits. While Syntax starters can be a fun and interactive way to introduce and practice programming concepts and are designed to be engaging and can be used as icebreakers, warm-up exercises, or quick brain teasers to reinforce learning.

Learning Outcomes: To brainstorm and brush their background knowledge on computer.



Students are seen operating computer systems monitored by Faculty



5 Examination Process

In a quest to demystify the Examination Process at the Kalasalingam Academy of Research and Education (KARE), the esteemed Controller of Examination, Dr. J.T. WinowlinJappes, delivered an enlightening lecture on 23 August 2023 and 24 August 2023 for the students of A and B series respectively.

Key Highlights and Topics Covered were Examination Structure, CGPA and Non-CGPA, Course Types, Importance of Attendance, EMGRC Committee, Makeup Examination, Paper Valuation Process, Result Dates.

Dr.Jappes commenced his presentation by elucidating the comprehensive examination structure at KARE. This encompassed Sessional Examinations, which are vital for continuous assessment, and End Semester Examinations, which hold considerable weight in determining academic progress. The Controller of Examinations clarified the distinction between Cumulative Grade Point Average (CGPA) and Non-CGPA systems, offering clarity to the student body regarding grading methodologies.

Dr.Jappes delineated various course types, shedding light on their significance and how they contribute to a well-rounded education. Further, the lecture underscored the paramount importance of regular attendance, as it is directly correlated with academic success and compliance with university regulations. Dr.Jappes introduced the Examinations Malpractice and Grievance Redressal Committee (EMGRC), emphasizing its role in ensuring the fairness and integrity of the examination process. He also provided an overview of the Makeup Examination Process, detailing the steps for students who may have missed an examination due to unforeseen circumstance.

The lecture also touched upon the meticulous process of paper valuation, reassuring students of the thoroughness and objectivity involved in assessing their academic performance. Dr.Jappes concluded by disclosing the anticipated results dates, offering students a timeline for when they can expect to receive their examination results. The CoE delivered this wealth of information with clarity and precision, ensuring that the students left the lecture hall with a comprehensive understanding of the examination procedures at KARE.

Learning Outcome(s): Enhancing the understanding and reassurance of the KARE community regarding the rigors and fairness of the examination process, ultimately contributing to a conducive learning environment.



From right , Dr JT Winowlin Jappes, the Controller of Examination, KARE along with the Dean Freshman Engineering Dr N.Rajini Professor, Dept. of Mechanical Engineering, KARE and the Event Co-ordinator Dr Arivarasan Associate Professor, Dept. of Physics, KARE.



6 Universal Human Values

Under the umbrella term Universal Human Value, Programmes on Health and Hygiene - Physiotherapy Practice, Legal Awareness and Social Well Being, and Life style, Character building, and Life skills were organised.

A comprehensive Freshman Induction Programme (FIP) 2023 on Health and Hygiene was impeccably orchestrated by the School of Freshman Engineering on the 23rd and 24th of August 2023, at the illustrious K.S. Krishnan Auditorium, within the esteemed premises of KARE (Kalasalingam Academy of Research and Education).

Distinguished medical luminaries Dr. K. Jothiprasanna, Dr. R. Rajavel, Dr. P. Shanthini, and Dr. V. Prasanna hailing from the venerable Kalasalingam Medical College and Hospital, Krishnankoil, graced the occasion as the erudite resource persons. Their erudition and expertise were brought to bear on a wide array of subjects, encompassing personal healthcare, hygiene, preventive healthcare strategies, the mitigation of anemia, and personal well-being. Notably, an interactive practice session was conducted, affording students invaluable insights into the transformative power of physical practices in enhancing their daily health regimen. In addition to these vital aspects, the speakers underlined the pressing necessity for tailored programs aimed at fostering the well-being of both adolescent girls and boys, empowering them to navigate the intricacies of their physical well-being and personal lives.

The impact of this enlightening event was far-reaching, benefiting a staggering 1300 students. The coordination of this remarkable endeavour was expertly handled by the trio of Dr. S. Mohan, Mr. M. Matheswaran, and Dr. V. T. Muthukani, all hailing from the School of Freshman Engineering. The gathering was warmly welcomed by Mrs. Sri Dhivya Research Scholar of English, whose eloquent words set the tone for the proceedings. Subsequently, Ms. Tamilarasi, Assistant Professor of Mathematics, introduced the esteemed resource persons, providing a glimpse into their illustrious backgrounds. The culmination of this remarkable event was marked by a heartfelt vote of thanks delivered by Dr. A. Arivarasan.

Learning outcome(s): Equipping the attendees with valuable knowledge and insights to lead healthier, more fulfilling lives.



Chief guests of the event





Dr C. Jothi, Asst. Prof / English, Honouring the Resource Person





Dr V.T Muthukani, Asst. Prof/ Maths, Honouring the resource Person



Health and Hygiene Programme Practice Session





Dr. K. Jothiprasanna/ Resourse Person, Trains the Students (Physical Practice)



Students participation in the events





Dr. K. Jothiprasanna/ Resourse Person, Trains the Students (Physical Practice)

The School of Freshman Engineering orchestrated a profoundly enlightening Freshman Induction Programme centered on Legal Awareness and Social Well-being. This intellectually stimulating event unfolded with distinction on the 25th and 30th of August 2023, within the prestigious confines of the K. S. Krishnan Auditorium, KARE (Kalasalingam Academy of Research and Education).

The programme was graced by the erudite presence of Lr. D. Muthulakshmi and Lr. P. Shyamala, esteemed faculty members from the Kalasalingam School of Law, Krishnankoil, who assumed the pivotal role of resource persons. Their profound knowledge and sagacious insights set the stage for an exploration of various facets of the legal realm, including Hindu Law, the Law of Contracts, the Consumer Protection Act, the Dowry Prohibition Act, the Factories Act, and the Information Technology Act. Their eloquent discourse extended beyond the mere exposition of laws, delving into the critical importance of fostering an awareness of legal intricacies pertaining to the challenges faced by both men and women. It was emphasized that such awareness should permeate college campuses, particularly benefiting young women by arming them with the means to adeptly navigate the complexities of their day-to-day lives.

The profound impact of this programme reverberated across the minds of over 1300 students, who were enriched by the knowledge imparted. The meticulous coordination of this transformative event was masterfully executed by the trio of Dr. S. Mohan, Mr. M. Matheswaran, and Dr. V. T. Muthukani, distinguished members of the School of Freshman Engineering. Dr. G. Tamilarasi, an Assistant Professor of Mathematics, extended a gracious welcome to the attendees, setting a tone of warmth and inclusivity. The resource persons were introduced with great reverence by Dr. M. Sivanandha Saraswathy, Assistant Professor of Mathematics, who provided valuable insights into



their illustrious backgrounds. The culmination of this intellectually enriching event was marked by a heartfelt vote of thanks, eloquently delivered by Dr. A. Arivarasan.

Learning Outcome(s): Bringing knowledge and insights essential for the pursuit of a just and informed society.



Dr. G. Chitra, Asst. Prof / Mathematics, Honouring the Resource Person



Lr. P. Shyamala, Delivering the Lecture





Participants of the induction program



Legal Awareness and Social Well Being



As part of Universal Human Values, a session on Life style, Character building, and Life skills was held on 25 August 2023 and 30 August 2023 at K.S.Krishnan Auditorium, graced by the august presence of Mr. Kaarthick Subramanian, Agira Technologies, Human Resources Director. . The primary objective was to equip our first-year students with the knowledge and skills necessary to navigate college life successfully and to foster personal growth and character development.

The session began with an introduction to the transition from high school to college. The importance of balancing academics, extracurricular activities, and personal life was emphasized. Time Management and Organization: Students were provided with practical strategies for effective time management and organization. The use of tools like planners and digital calendars was encouraged. The significance of setting SMART goals, both short-term and long-term, was discussed. Students were encouraged to identify their personal and academic goals. Common stressors in college were addressed, and stress management techniques were shared, including deep breathing, meditation, and exercise.

About healthy lifestyle choices, the importance of a balanced diet, regular exercise, and adequate sleep for overall well-being was highlighted. The risks of substance abuse were discussed. Basic financial concepts, such as budgeting and saving, were introduced. Responsible spending habits and avoiding excessive debt were emphasized. The values contributing to good character, such as honesty, integrity, and empathy, were explored. Real-life examples of individuals with strong character were shared.

Effective communication, including listening skills, public speaking, and conflict resolution, was discussed as a crucial life skill. The talk was delivered in a lecture-style format, with interactive elements such as open discussions, real-life examples, and Q&A sessions. Learning Outcome(s): Honing the students critical thinking and mustering their courage to face lifes challenges.

Adding to the previous session on, Character building, and Life skills, The resource Person Mr. Pankaj Kumar Sinha, HR Manager, Ebix Technologies addressed issues on Factors Affecting Resilience. He discussed the various factors that can impact an individual's resilience, including mindset, social support, and coping strategies. Students were encouraged to reflect on their own resilience factors.

The significance of maintaining a positive mindset and its impact on overall well-being and success were emphasized. Strategies for cultivating positive thinking, such as reframing negative thoughts and practicing gratitude, were shared. The concept of mindset, specifically fixed mindset vs. growth mindset, was explained. Students were encouraged to adopt a growth mindset to





Chief guest speech about Life skills

embrace challenges and view failures as opportunities for growth.

During the workshop, students participated in interactive exercises designed to boost their positive thinking skills. These exercises included journaling, self-reflection, and peer discussions.

The workshop was conducted in a highly interactive and participatory format to engage the students effectively. We incorporated group discussions, case studies, role-playing exercises, and self-assessment tools to facilitate a deeper understanding of the concepts.

Learning Outcome(s): Making the students to tackle challenges and maintain a positive outlook.



Positive outlook of the participants



7 Corporate Talk

During the two weeks freshman Induction program, the Office of Corporate Relation arranged an interactive session for first year student on 23.08.2023 and 24.08.2023 at K.S. Krishnan Auditorium. These sessions were presided by. Prof. S. Narayanan, Vice Chancellor, KARE, Dr N. Rajini, Professor and Dean, School of Freshman Engineering, KARE . Vice Chancellor welcomed and honoured the chief guests and Prof. Alavudeen Director of Corporate Relation. offered the felicitation address and during his address Prof. Alavudeen pointed out the previous year's student placement in reputed industries with package, overall placement details, placement office benefits for the students and encouraged the first year students. The resource persons were Mr. T. Barathiraja, Director and CEO Touchmark Descience Pvt, Ltd. Chennai, Tamil Nadu and Mr. David Netto, Senior Talent Acquisition Business Partner, ADP India Pvt, Ltd. Chennai, Tamil Nadu. The detailed the industries expectations from candidates and actively interacted with students.



Inagural Speech by Vice Chancellor



Prof. S. Narayanan Vice Chancellor, KARE honours the Guest





Freshman engineering attendees of the programme



8 Competitions

Competition Track-I (SMACE)

Department of Mechanical Engineering organized the event with the title "RC Car Design and Racing Competition" for first-year students in the Freshman Induction Program 2023. The event was conducted for 8 days from 23.08.2023 to 01.09.2023 in the 11^{th} and 5^{th} blocks and The event was an exhibiting showcase of RC car enthusiasts' skills and the thrill of high-speed racing. It furthermore brought together RC car racers, hobbyists, and fans from near and far to compete in various categories and experience the excitement of RC car racing.

Event Highlights:

- 1. Various Categories
 - The competition featured an array of categories, as follows
 - Off-road Racing: Participants navigated challenging terrains with their off-road RC cars.
 - On-road Racing: High-speed races on a specially designed on-road track.
 - Custom Builds: Enthusiasts displayed their unique and customized RC cars.
- 2. Technical Inspection
 - Each RC car underwent a rigorous technical inspection to ensure safety and adherence to competition standards. Inspections covered aspects like battery placement, weight limits, and rule compliance.
- 3. Skill Challenges
 - Skill challenges, such as obstacle courses, hill climbs, and precision driving tests, added an extra layer of excitement and competition.
- 4. Spectator Engagement
 - A diverse audience, including RC car fans and students from various departments gathered to witness the action. Spectators had designated viewing areas and opportunities to interact with competitors and their vehicles.



Learning Outcomes: To demonstrate the students skills, innovation, and dedication while engaging with a broader audience of spectators and hobbyists.

Event Organizers:

- 1. Dr.S.Gowthaman, Associate Professor
- 2. Dr.M.Sivasubramanian, Associate Professor
- 3. Dr.K.Mayandi, Associate Professor
- 4. Dr.S.Kavitha, Associate Professor
- 5. Dr.G.Ebenezer, Associate Professor
- 6. Dr.S.Vignesh, Associate Professor



Students participation in the competition



Students participation in the competition



Competition II (SEET)

The *Sustainable Smart Home Design Challenge* event was organised from 23.08.2023 to 30.08.2023 from by the School of Electronics, Electrical and Biomedical Technology on all days in the Central Computing Facility arena in the TIFAC CORE building, KARE. Students from all sections of Freshman Engineering participated.



Students participation in the competition

Students were asked to form a group of 7 each and brainstorm to bring out ideas to Design a Sustainable Smart home. Each team then built a prototype of their sustainable smart creatively.

The materials like Foam Board, Glue, Scale, Cutter, Arduino board with sensors, wires etc. Were provided. Since the students are first-year students, in order to help them work with Arduino help was offered through Final year SEET students.

The students were asked to address the following objectives:

Objective 1: Usage of maximum Natural light resources and Reduce electric source using given components

Objective 2: Automatic turning on/off of lights/fan based on person availability using either Ultrasonic sensor Components or IR Sensor

Evaluation criteria were also shared with them and students were awarded points based on their ideas, and hardware work. Almost 1,200 students participated in the event.

Learning Outcome: To learn a lot about sensors in a practical way





Students performance at lab







Competition Track III (SAS)

The competition track III events of FIP were organized by the School of Advanced Sciences that comprises Departments of Mathematics, Physics and Chemistry. These events were organized from 22 August 2023 to 01 September 2023. The Department of Physics organized 4 events such as *Popsicle bridge challenge, the straw tower challenge, the egg drop challenge, and the balloon-powered car challenge.* The Department of Chemistry organized 3 events: *Rocket launching, long polymer, and giant bubble.* All A series and B series sections participated in the events. Four sections per day participated in an event. Student teams were created. The event was conducted from morning 10 a.m. to evening 4 p.m. SAS laboratories, Physics Lab1, Physics Lab2, Chemistry Lab1 and Chemistry Lab2 were the venues for the events. More than 1,500 students participated in Competition Track III events. The required items for the events were provided by KARE. Students eagerly participated in the events. They actively prepared projects.

Learning Outcomes: Incurring knowledge on the fundamental concepts of Physics and Chemistry and applying that knowledge to construct the devices.



Students' performance at lab





Students' participation on Straw tower and balloon powered car challenge



9 Students' Activities

Dr. A. Samson Nesaraj, Director (Student Affairs) gave a presentation about the 'Student Affairs Policy' on 25th August, 2023 and 30th August, 2023 in the Freshman Induction Programmes organized for the first year UG Engineering students at K.S. Krishnan Auditorium. In his presentation, he elaborated about the organization structure of the Student Affairs Office. He spoke about the unique faculty advisory system available at KARE. He emphasized the parental care provided by the faculty members in solving their academic related issues along-with personal problems, if any. He presented the importance of counselling and he briefed the students that the counselling is also provided by the external members if necessary. In his presentation, he encouraged the students to involve themselves in different non-academic activities in order to make them eligible to earn non-credits which are mandatory to complete their UG degree at KARE. He explained about various activities and programmes of 12 non-academic clubs available in the University. He described about the sports facilities to a greater extent in order to maintain their physique hale and healthy along-with their academic journey in KARE.



Presentation of the director students affairs about the responsibility







Students' participation in the event



10 Campus Life

On the designated dates (25 August 2023 & 30 August 2023), the esteemed Director of Campus Residence, Dr J.T. WinowlinJappes, graced our institution with a captivating lecture entitled "Campus Life at KARE". This informative talk provided an insightful glimpse into the myriad facilities and attractions that the Kalasalingam Academy of Research and Education (KARE) has to offer.

Dr. Jappes commenced his presentation by shedding light on the comprehensive array of facilities available within the KARE campus. These encompassed the state-of-the-art hostels, a refreshing swimming pool, a convenient beauty shop, a well-equipped gymnasium, extensive sports facilities, yoga amenities, a serene temple for spiritual solace, and a well-appointed guest house for visiting parents.

In a nod to practicality, Dr.Jappes provided invaluable information regarding KARE's proximity to essential transportation hubs. He highlighted the distance from KARE to the nearest railway station, Srivilliputtur, ensuring that students and parents could make informed travel plans. Additionally, the distance to the nearest airport, Madurai, was elucidated, offering convenience for those arriving by air. Beyond the confines of the campus, Dr.Jappes thoughtfully pointed out nearby tourist destinations that students and visitors could explore. These included the natural splendors of Kuttralam and Kodaikanal, the cultural richness of the Meenakshi Amman Temple, the archaeological significance of Keeladi, and the historical grandeur of Thirumalai Nayakkar Mahal. His recommendations opened up a world of opportunities for exploration and cultural enrichment.

Dr.Jappes delivered these insights in an engaging manner, leveraging visuals and practical advice to ensure that the audience left the lecture hall with a comprehensive understanding of the campus and its surroundings.

Learning Outcome: To obtain a comprehensive overview and knowledge of the rich tapestry of experiences and opportunities available at KARE





Dr N.Rajini, Professor of Mechanical Engineer and Dean of Freshman Engineering honours Dr J.T Winolin Jappes Director, Campus Residence, KARE



Speech given by the Chief Guest



11 Become Entrepreneur

A session on Become Entrepreneur was hosted by Innovation and Entrepreneurship Development Centre (IEDC) which acts as an incubation cafe to establish incubation centres on the campus. The esteemed resource person of the session was Dr J. Deny, Deputy Director, IEDC (PI) of KARE. The function of the centre was envisioned to create an ecosystem to promulgate the idea of innovation, entrepreneurship, creation of IPR and patenting. The IEDC at KARE was established in the year 2014 as an initiative of the National Science and Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology (DST), New Delhi. With an aim of developing an institutional mechanism to create entrepreneurial culture in academic institutions to foster the growth of innovation and entrepreneurship among the faculty and students. KARE-IEDC was established in 2014 with a special focus on three areas - Technopreneurship, Women Entrepreneurship and Rural Entrepreneurship. KARE-IEDC was recognized as a Business Incubator/Host Institution in 2018 by the Ministry of Micro and Small-Scale Industries, Govt of India. KARE-IEDC was associated with the Department of Science and Technology New Delhi, Entrepreneurship Development Institution of India Ahmadabad, Entrepreneurship Development Innovation Institute Chennai, Indian STEP, Business Incubator Association India and UBI Global Sweden.

Atal Community Innovation Center-Kalasalingam Innovation Foundation (ACIC-KIF) is a nonprofit community innovation centre established in April 2021 with the support of AtalInnovation Mission, NITI Aayog, Govt. of India. The aim of ACIC is to promote economy, and employment, and enable community-oriented innovations. We encourage innovative projects from all stages starting from ideation, early traction, validation, and scaling. The ACIC-KIF provides community innovation space at subscription charges to innovators and startups, handholding, prototyping, validation, POC, pre-commercial versions, software development and other services required for startups. We also conduct extensive training on different technological aspects, patenting and other services required for startups and innovators. Once the Proof-of-concept (POC) is developed, we provide scaling services to convert your POC to pre-commercial and commercial versions. So far, this centre has incubated 22 startups and a few common issues faced by the nearby community are identified and solved by ACIC-KIF.



KARE established the Institutions Innovation Council in 2019. Through this KARE-IIC, around 5597 students benefited in the last three assessment years. KARE-IIC provides mentoring, seed fund support and conducting training programs related to Innovation, entrepreneurship and IPR. KARE- IIC got 4 Star rating from the Ministry of Education Innovation Cell, Govt of India for promoting innovations and startups on campus during 2021-22.KARE ranked 6th Deemed University in the Atal Ranking of Institutions on Innovation, Achievements (ARIIA)-2021. Through this innovation ecosystem, 49 startups are supported.



Invitation of the Innovation & Enterpreneurship program



12 Local Visit

A visit to the nearby locality enlightens the students to know their surroundings. List of below mentioned places were visited by the students during the local visit from 22.08.2023 to 01.09.2023

- 1. Gandhi Memorial Museum
- 2. Thirumalai Nayakkar Mahal
- 3. Kalaignar Centenary Library
- 4. Keeladi Museum

Importance about the places

Gandhi Memorial Museum:

The Gandhi Memorial Museum serves as a remembrance and tribute to the efforts of our very own father of the nation, Mahatma Gandhi. Established in 1959 in his cherished memory, eleven years after his demise, it is one of the few Gandhi Museums in the country. The Gandhi Memorial Museum in Madurai is built inside the historic Tamukkam Palace, which was once the residence of Rani Mangammal of the Nayak dynasty. Dating back to 1670 AD, the palace was converted into a museum detailing the life of one of Indias most admired freedom fighters and opened for public in 1959. It also displays a part of the blood-stained dhoti of Mahatma Gandhi from the day of his assassination.



Students posing for a snap at Gandhi Museum



Thirumalai Nayakkar Mahal:

Under the care of the Tamil Nadu Archaeological Department and built in 1636 by King Thirumalai Nayak, this palace is a blend of Dravidian and Islamic architectural styles featuring majestic pillars and brilliant stucco work done on its domes and arches. Divided into two sections Swarga Vilasam and Ranga Vilasam, a tour of the palace will let you into the royal residence, workers' quarters, ponds and gardens, religious places, the throne room and other areas of importance. Thirumalai Nayak Mahal was constructed way back in the 17^{th} century.



Students at Thirumalai Nayak Mahal

Keeladi Museum

The museum has the artefacts and crafts used by the urban civilization from the 6th century BC. There were big controversies in fixing the time period of this civilization. First, it was said that the Keeladi excavations belonged to 300 BCE. Later, the carbon datings confirmed that the excavations were much older than thought before and belonged to 800 BCE. This finalised that the Tamil Sangam era was older than thought before and dated back to 800 BCE. The museum has artefacts that depict the history of Tamil and the heritage of Tamil Nadu.



Students at Keeladi Museum



Kalaignar Centenary Library:

The Kalaignar Centenary Library, with a basement floor, Ground floor, and Six Floors, will be an intellectual beacon of South Tamil Nadu. It is designed to be used by children, students, youth, researchers, job seekers, women, and senior citizens.



Students posing for click at Kalaignar Centenary Library

hedule of the Local visit					
S. No	Date	Sec	Name of the Class Coordinators	Place	
1	22.08.2023 B13		Ms. Tamilarasi (MAT)	Gandhi Memorial Museum	
2	22.08.2023	B14	Dr. S. Bathrinath (Mech)	Kalaignar Centenary Library	
3	B09		Dr. S. Dinesh Kumar	Kalaignar Centenary Library	
4	23.08.2023	B10	Dr. S. Syed Ali Fathima	Gandhi Memorial Museum	
5	23.08.2023	B11	Dr. P. Sundaresan	Keeladi Museum	
6]	B12	Mr. G. Ebenezer	Thirumalai Nayakkar Mahal	
7		A13	Dr. A. Hariharasudan	Gandhi Memorial Museum	
8	24.08.2023	A14	Dr. P. Karthick	Kalaignar Centenary Library	
9	24.08.2025	A15	Dr. T. Theivasanthi	Keeladi Museum	
10		A16	Dr. P. Selvarengan	Thirumalai Nayakkar Mahal	
11		B05	Dr. V. T. Muthukani	Kalaignar Centenary Library	
12	25.08.2023	B06	Dr. P. Laxmi Narayanan	Gandhi Memorial Museum	
13	20.00.2020	B07	Dr. S. Maragathasundari	Keeladi Museum	
14		B08	Mr. N.V.S Natteshan	Thirumalai Nayakkar Mahal	
15		A09	Mr. S. Shargunam	Gandhi Memorial Museum	
16	28.08.2023	A10	Dr. C. Jothi	Keeladi Museum	
17	20.00.2020	A11	Dr. M. Sivanandha Saraswathy	Thirumalai Nayakkar Mahal	
18		A12	Dr. P. Devendran	Kalaignar Centenary Library	
19		A05	Mrs. Lincy Kiruba S	Kalaignar Centenary Library	
20	30.08.2023	A06	Dr. G. Chitra	Gandhi Memorial Museum	
21	00.00.2020	A07	Dr. S. Gowthaman	Keeladi Museum	
22		A08	Dr. A. Arivarasan	Thirumalai Nayakkar Mahal	
23		A01	Dr. B. R. Aravind	Kalaignar Centenary Library	
24	31.08.2023	A02	Dr. K. Thanga Pandi	Gandhi Memorial Museum	
25	01.00.2020	A03	Dr. S. Thangarasu	Keeladi Museum	
26		A04	Dr. SKM. Pothinathan	Thirumalai Nayakkar Mahal	
27		B01	Dr. D. Geetha	Gandhi Memorial Museum	
28	01.09.2023	B02	Mr. M. Matheswaran	Thirumalai Nayakkar Mahal	
29	01.00.2020	B03	Dr. J. Jeyabharathi	Kalaignar Centenary Library	
30		B04	Dr. Angshuman Chattopadhyay	Keeladi Museum	

Schedule of the Local visit



Summary of the Local visit:

After visiting Gandhi Museum, Student's came know about Mahatma Gandhi's pre-independence struggle and include photos, manuscripts, quotations, photocopies of letters and other significant articles from the time.

Visiting Thirumalai Nayakkar Mahal made the Students know about the architecture and rich history of King Thirumalai Nayak. Besides, the palace is a testimony of a blend of Dravidian and Islamic architectural styles featuring majestic pillars and brilliant stucco work done on its domes and arches.

Keeladi Museum illustrated about the urban civilization from the 6^{th} century BC. This civilization thrived along the banks of the river Vaigai. Also, the museum exhibited brick structures used in 800 BCE and earthenware structures. The museum also has animated paintings that explain the livelihood of the people who lived in that era.

After visiting Kalaignar Library, Student's came know about the learning, encompassing not only books but also a wide range of information resources, arts, culture, science, and technology.



Students at Kalaignar Library



13 Motivational talk

As a note of motivation to the freshers who just stepped out from their school, the School of Freshman Engineering organized a motivational talk for the students on 29 August 2023 at the Admin block seminar hall for Tamil students and K. S. Krishna Auditorium for Telugu Students.

Mr. J.A.D. Samuel started the session with the topic of Personality Development The main objective of the programme was to familiarize students with the emerging ideas and trends on how to develop personality in the 21st-century contexts. The programme also aimed to teach students to work with various professionals, people and groups to understand the meaning of life and work in the present context; to enhance their communication skills and interpersonal skills to function in professional and social settings effectively; to enrich academic language skills (writing and presentation skills)for academic writing and presentations; to understand effective planning, time management and implementation for setting goals and achieving both personal and professional goals; to learn to evaluate oneself (self-appraisal and introspection) for further growth, personally and professionally.

Mr Raju Madhira motivated the students with the topic of self-esteem and how to develop knowledge and skills. He, in addition, discussed the ability which is inherent or inbuilt. Further, he explained the kind of role students' development would play in the days to come. His main focus throughout the session was on skills, ability, and knowledge. Next, he defined competency as the ability to apply a set of related knowledge, skills and abilities to successfully perform certain tasks. He did several activities with the students and the type of activity involved the learners in a group or pairwork to perform certain tasks. He ended his presentation with a brainstorming puzzle which was welcomed by the students .The session ended with question and answer phase. The session was praiseworthy as it involved the learners and learning took place to help the students acquire or develop some basic skills which would enable them to get job opportunities.





Mr. J.A.D. Samuel interacts with the students during QA phase



Motivational talk by Raju Madhira



14 Yoga

Pupils deal with many distractions, temptations, overstimulation and peer pressure. Higher educational institutions are challenged to do more with less and be creative in how they reach even the most isolated child. Yoga is a low -cost, helpful tool that can have a positive impact on children. According to Patanjali, Iyamam, Niyamam, Asanam, Pranayaman, Prithakaram, Dharanai, Dyanam and samarthi are the light limbs of Yoga.

Asanas Make the body flexible and increase the immunity power. It makes the body and Mind fresh. Selected asanas are done by the students by the guidance of the Yoga Trainer. Yoga Instructors helped the students to do asanas correctly to get full benefits of the postures. The following 20 asanas were done by the students.

Warm up. Surya Namaskar makes the body and mind fresh. Super brain yoga makes right and left brain to work. Hand exercises give flexibility to hand joints and shoulder. Eka pada asana gives balance to the leg. Tada asana makes the leg ankle flexible. Utkatasana makes the thigh strong. Chakrasana makes the back bone and spine flexible. Leg exercise makes 72000 nerves in the body active. Neuro muscular breathing exercise opens the lungs air bags and gives more oxygen to the body cells. Eye exercise makes the eye ball nerves strong and is used to prevent long sight and short sight problem. Padmasana gives concentration. Vajrasana makes the mind and digestive system strong. Navasana removes the stomach problems, Navukasana Makes the back bone flexible. Balasana gives strength to leg knees. Massage for the body creates freshness. Acu Pressure removes depression, anxiety and sleeping disorders. Butterfly gives strength to the hip and swing exercise gives strength to knee joints.

Pranayama is the breathing technique which removes blockages in the nadis. Students Practiced the following Pranayamas. 1. Kapalapathi. 2. Ujaiyee. 3.Bramari. 4.Agnisara. 5.Basthirika and 6. Nadisuthi.

Meditation gives concentration and tolerance power and also improves the memory power as well. Students performed initial stage meditation and finally ended with relaxation exercise. Relaxation exercise is the technique using the mind to give strength to the physical body.



Students practicing Yoga







Students practicing Yoga

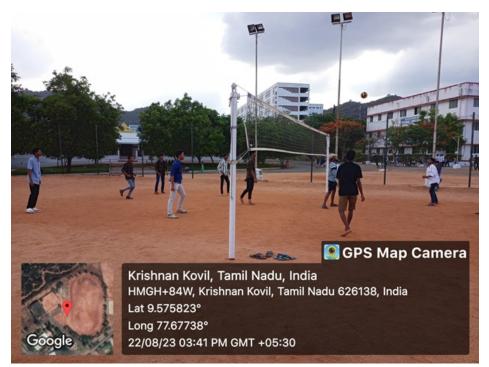






15 Sports

Freshman Induction Program 2023 lays equal focus on sports activity throughout the 10 days between 4.00 and 5.00 PM. The students sportively played games like Chess, Carom, Badminton, Volleyball, Football, Throw ball and Basket ball on their own choice. The physical director encouraged them and gave guidance to the students to participate actively every day in any of the sports activity to improve their physical and mental strength. Further, she discussed the non CGPA courses offered in Sports to strengthen their academic performance.



Students are seen actively participating in sports





Students playing outdoor games







Students playing indoor games











16 Feedback

Learning and improvisation have no limits. It is a habitual process of Freshman Induction Programme to receive feedbacks from the students about the diverse programmes being conducted from 21 August 2023 to 02 September 2023. The responses from the students are quite overwhelming. Around 90% of them have recorded affirmatively. The sample of the feedback form and its analysis are as follows.

Name of the student: Danushaa Sri Application No/Register No: 202301678 Section & Department: A05& Biotechnology Date: 31-8-2023

Students are requested to answer all the questions given.

A. How would you rate the **FIP** overall?

- More Informative
- Informative
- Helpful
- Satisfactory

Rate the quality of information you have received with regard to the followings:



S. No	Description	Strongly Agree	Agree	Disagree	Strongly Disagree
1	Physical activity (Yoga and Sports) helps to relieve stress, mind		~		
	relaxation and maintain fitness.				
2	RC-Car Competition makes me to apply critical thinking towards the specific target. [Competition Track-I]	\checkmark			
3	Sustainable smart house design competition taught me to understand the importance of Sustainable Development Goals (SDGS) [Competition Track-II]		V		
4	Science in Action competition helps to recollect scientific concepts treating real time prototype model. [Competition Track-III]		V		
5	Activity based learning through games assist to improve my communication skills. (English Literacy)		V		
6	Basic Information about software/ hardware help us to gear up computing knowledge. (Computing Proficiency)		V		
7	The regulation related to assessments and attendance requirements were clearly explained. (Examination process)	\checkmark			
8	Grasped the information about extra and Co- Curricular activities like NCC, NSS, YRC, Fine Arts Club, Tamil Mantram, Photography Club at the college through Induction Programme. (Campus Life)	~			
9	Students activities help us to understand the need of collaborative learning. (Students Activities)		V		



S. No	Description	Strongly Agree	Agree	Disagree	Strongly Disagree
	Fly abroad talk helped me				
	to understand the				
	international study centre,				
10	exchange semester	\checkmark			
	studies and placement				
	after graduation.				
	(Fly Abroad)				
	The Induction Programme				
	supported me in understanding				
11	the clear view of business and		\checkmark		
	administration.				
	(Become Entrepreneur)				
	Information on corporate provided				
10	by the HR & resource person		\checkmark		
12	was relevant, informative				
	and useful. (Corporate talk)				
13	Interaction with peer students				
	was useful and informative.	✓			
14	Mentoring of the class coordinator				
	help us to understand academic		\checkmark		
	road map and logical supports.				

B. Your learning outcome about the place you visited during FIP (Kalaignar Centenary Library, Keeladi, Gandhi Museum, Thirumalai Naicker Mahal)?

It was a knowledgeable experience, I had seen ancient photos of Madurai City, Tamil Nadu culture etc.,

C.How the postures and stretches helped you to bring flexibility in your body? (Health Session)

This session helped to improve physical fitness and mental health alot . Different types of asanas we had done in this session.

E.State few ways to overcome or prevent issues related cybercrime and ragging? (Legal Awareness)

It is an very good session to know about the mistakes we are doing and not to do it in the future

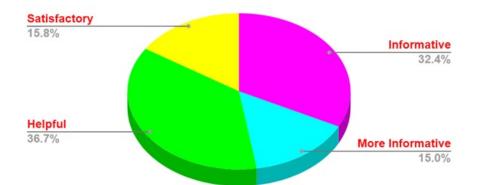
Further Suggestions. (100 words)

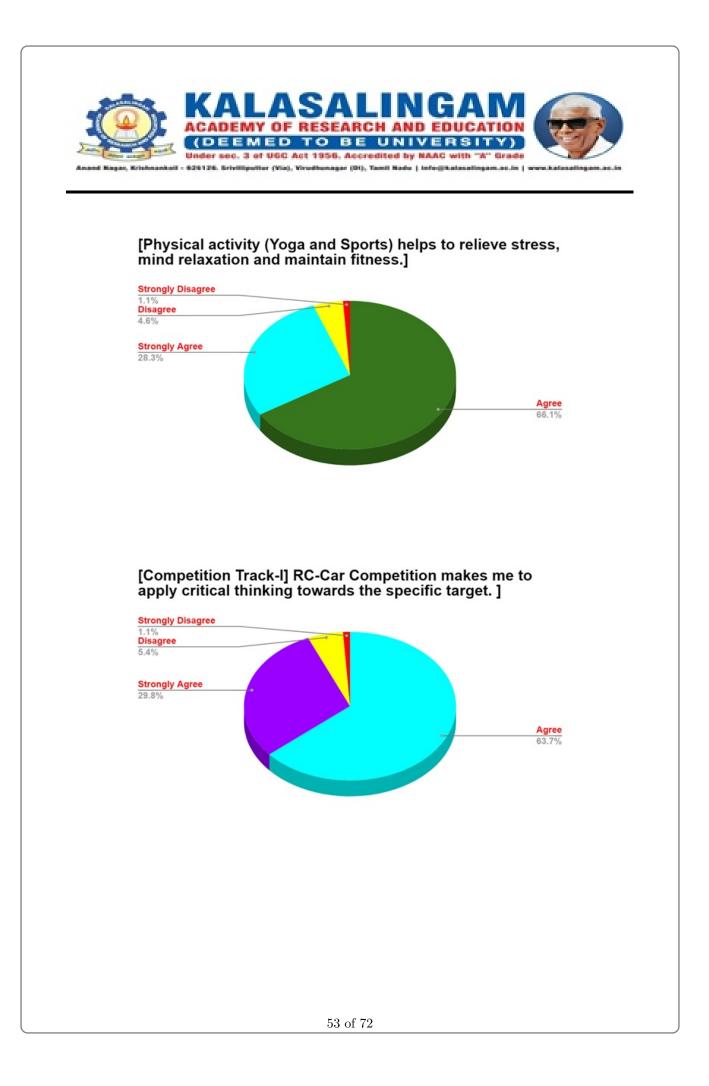
FIP is needed for all students to become active in their studies Share your learning outcomes from the following expertise talks:

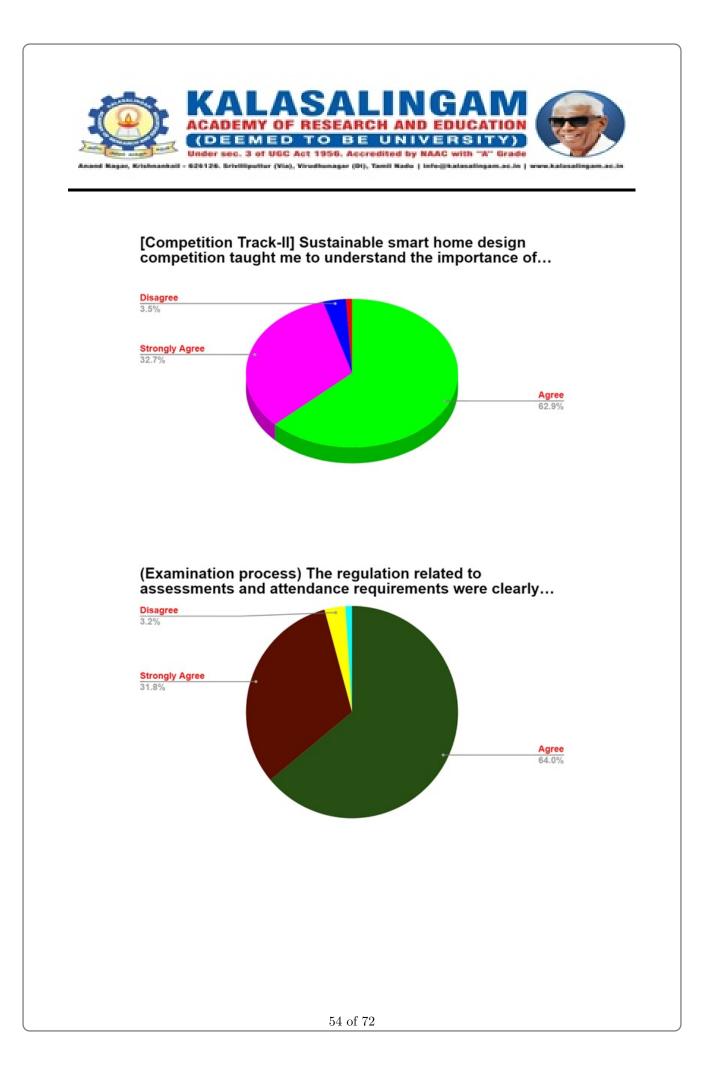


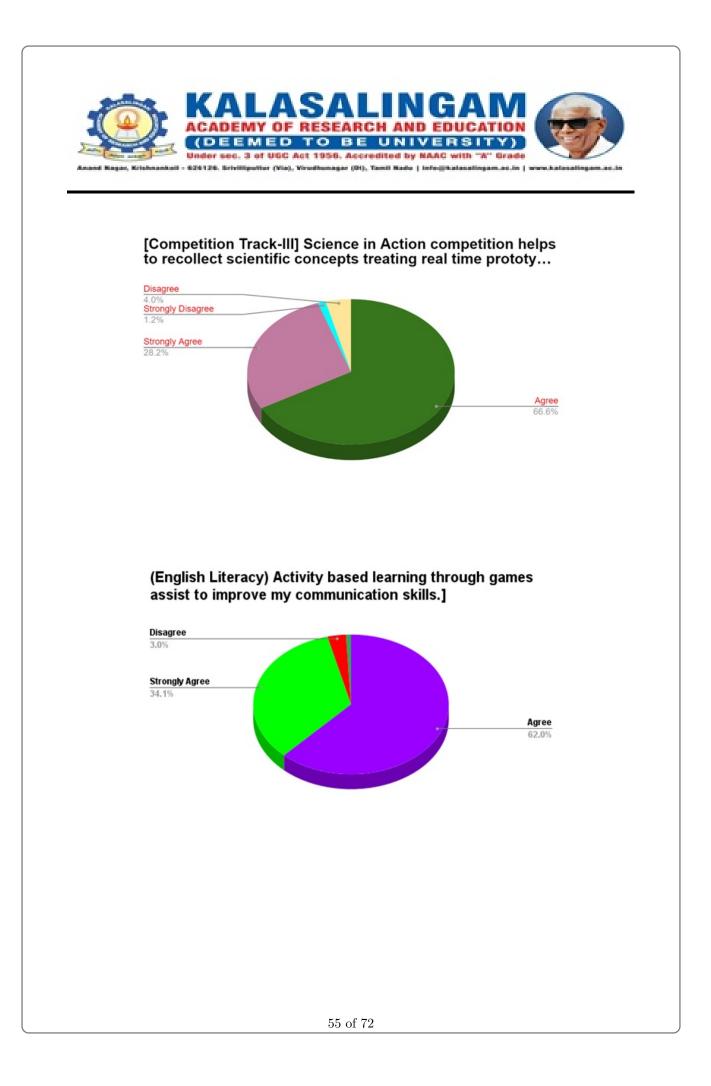
S.No	Topic	Research Person	Learning Outcomes	
1	Personal Development	Mr. J. A. D. Samuel (Tamil Speaker)	I learnt that you have to keep yourself on track by thinking positive and keeping your surroundings positive	
2	How to develop the concept of self-esteem?	Mr. Raju Madhira (Telugu Speaker)	I learnt that feature is in our hands we must use the time wisely. It's ok if u fail try kee on trying till u succeed. Dream big make the dreams come true	
3	Human Resource Development	Mr. S. Karthick	I learned how to develop new skills, knowledge and Positive attitude	

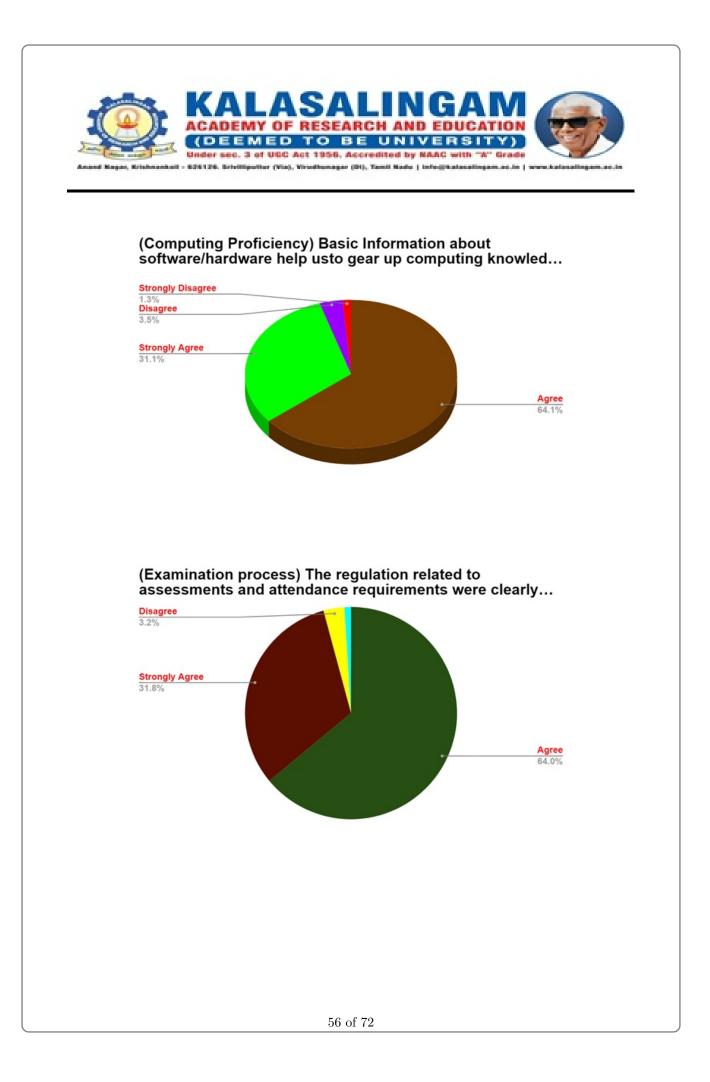
How would you rate the FIP overall?

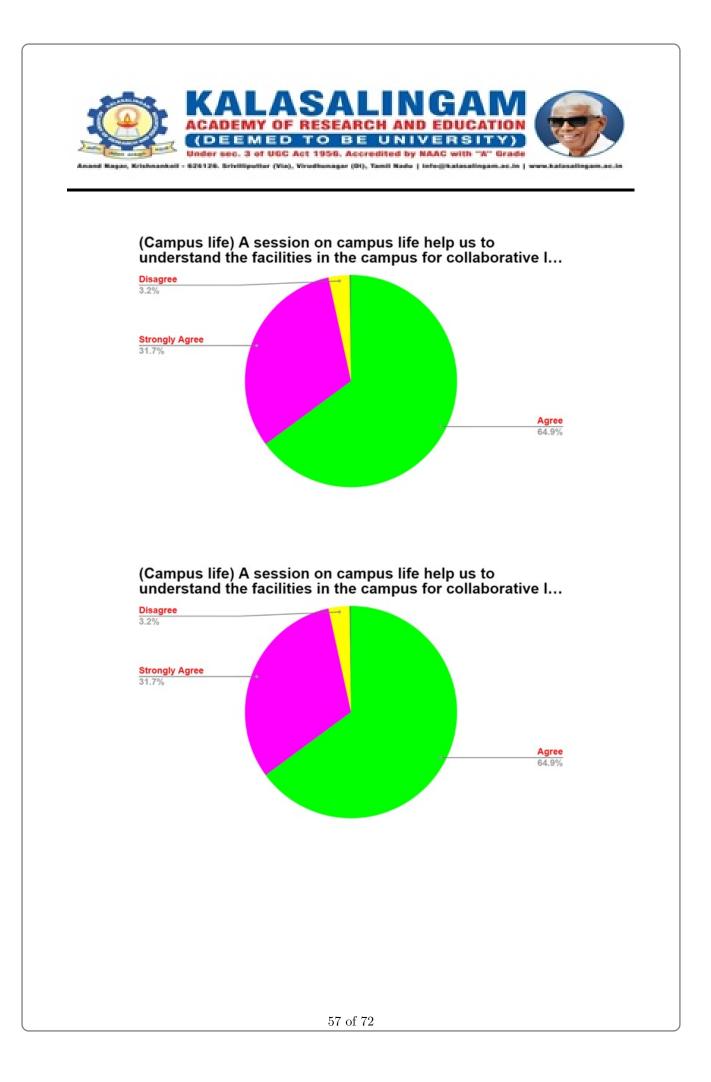


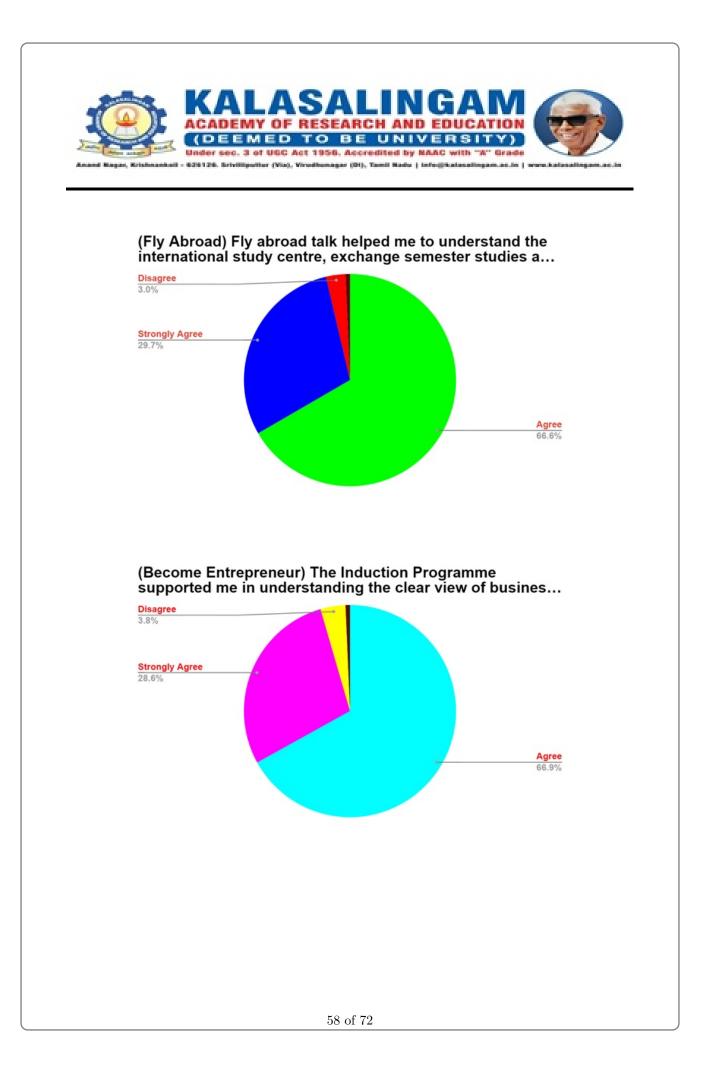


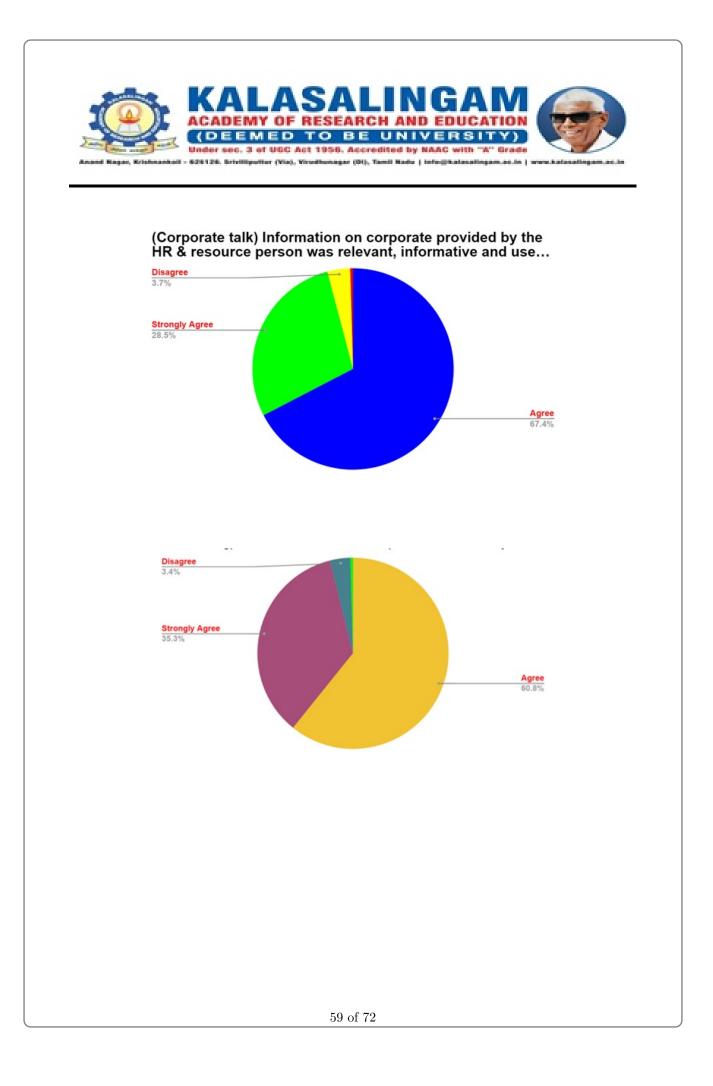


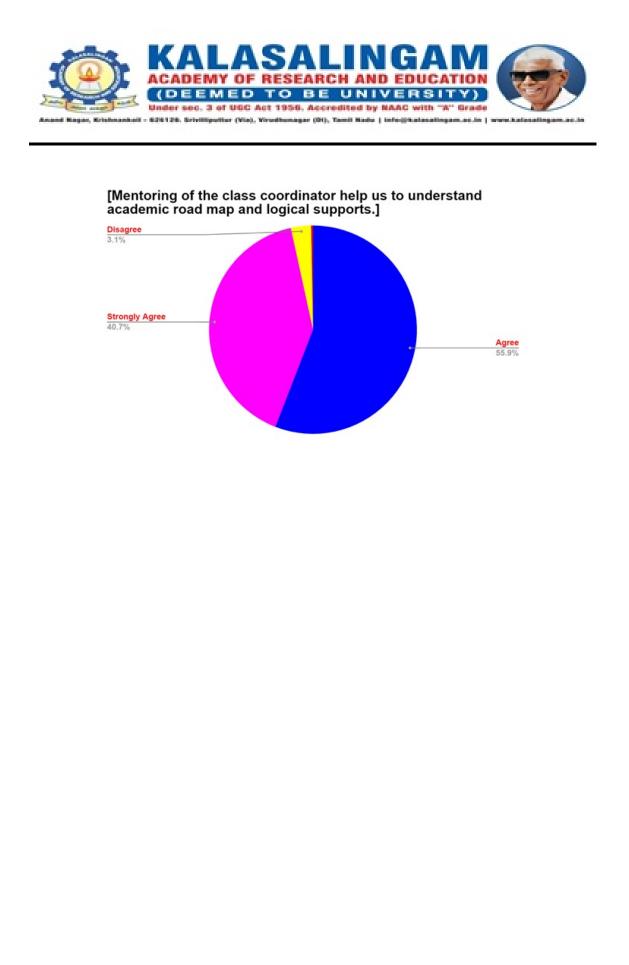














17 Cultural Activities

As a part of Freshman Induction Program(FIP-2023-24) cultural events entitled, "FRESHERS FIESTA 2K23", were conducted on 2 September, 2023 at four different venues- K.S. Krishnan Auditorium, Dr APJ Abdul Kalam Block Seminar Hal, Dr Srinivasa Ramanujam Block Seminar Hall and Admin Block Seminar Hall by the Direction of Dr A. Samson Nesaraj, Director-Student Affairs and Dr. N. Rajini, Dean Freshman Engineering. 1800 students participated in various events conducted by Fine Arts Club, Tamil Mandram, Photography Club and Youth Red Cross Team from 9.00am to 4.00pm.

Details:

1	Name of the Event		FRESHMAN INDUCTION PROGRAM-		
1.			CULTURAL EVENTS		
2.	Date of the Event	:	02-09-2023		
3.	Name of the School	:	School of Freshman Engineering		
4.	Title of the event	:	FRESHERS FIESTA 2K23		
5.	Name of the coordinators(s)	:	Dr. D. Geetha & Dr. P. Lakshminarayanan		
6.	No. of participants	:	1800		
7.	FDP Brochure	:	Enclosed below		





Invitation of Freshers Fiesta 2023



Agenda of Aurora 2023



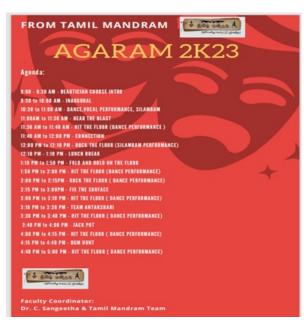


Invitation of Aurora 2023



Invitation of Youthmania 2023





Agenda of Agaram 2023



Senior students start their events by lighting the lamp





Freshers are seated in the arena



Orchestra of KARE





Students honouring the Director, Student Affairs



Students participation in the event







Performance of the students





Performance of the students



Performance of the students







Connections









- https://www.youtube.com/watch?v=0en6NNpAaCU&list=
 PLMAgEHsE8kpIiTEf0L0PlnylZ2S8ZVG06&index=1&ab_channel=kalasalingamFIP
 COMPETITION 1- Popsickle Bridge
- https://www.youtube.com/watch?v=H5n_2y7Yh7E&list= PLMAgEHsE8kpIiTEf0L0PlnylZ2S8ZVG06&index=2&ab_channel=kalasalingamFIP COMPETITION 2-EEE - Sustainable Smart Home Design
- https://www.youtube.com/watch?v=rKKN7niRSh8&list= PLMAgEHsE8kpIiTEf0L0PlnylZ2S8ZVG06&index=3&ab_channel=kalasalingamFIP COMPETITION 3- Long Polymer Making
- https://www.youtube.com/watch?v=4zxHfZUHDj0&list= PLMAgEHsE8kpIiTEf0L0PlnylZ2S8ZVG06&index=4&ab_channel=kalasalingamFIP COMPETITION 4 Long Polymer Making
- https://www.youtube.com/watch?v=mIVzzUE_v_A&list= PLMAgEHsE8kpIiTEf0L0PlnylZ2S8ZVG06&index=5&ab_channel=kalasalingamFIP COMPETITION 5-Giant Bubble Making
- https://www.youtube.com/watch?v=ojTY6vo1B0E&list= PLMAgEHsE8kpIiTEf0L0PlnylZ2S8ZVG06&index=6&ab_channel=kalasalingamFIP COMPETITION 6-Giant Bubble Making
- https://www.youtube.com/watch?v=WbeHjifjpDw&list= PLMAgEHsE8kpIiTEf0L0PlnylZ2S8ZVG06&index=7&ab_channel=kalasalingamFIP COMPETITION 7-Giant Bubble Making
- https://www.youtube.com/watch?v=kQNWF04bf9A&list= PLMAgEHsE8kpIiTEf0L0PlnylZ2S8ZVG06&index=8&ab_channel=kalasalingamFIP COMPETITION 8-EEE - Sustainable Smart Home Design
- https://www.youtube.com/watch?v=UNDk4bV5Njk&list= PLMAgEHsE8kpIiTEf0L0PlnylZ2S8ZVG06&index=9&ab_channel=kalasalingamFIP COMPETITION 9-Balloon Powered Car
- https://www.youtube.com/watch?v=6I-UeXsv70Q&list= PLMAgEHsE8kpIiTEf0L0Plny1Z2S8ZVG06&index=10&ab_channel=kalasalingamFIP COMPETITION 10-Balloon Powered Car



- https://www.youtube.com/watch?v=o-2VoHFsTP8&list= PLMAgEHsE8kpIiTEf0L0Plny1Z2S8ZVG06&index=11&ab_channel=kalasalingamFIP COMPETITION 11-EEE - Sustainable Smart Home Design
- https://www.youtube.com/watch?v=BSumfV-d56s&list= PLMAgEHsE8kpIiTEfOLOPlnylZ2S8ZVG06&index=12&ab_channel=kalasalingamFIP COMPETITION 12 - Popsickle Bridge
- https://www.youtube.com/watch?v=1cQmlitxzr8&list= PLMAgEHsE8kpIiTEf0L0Plny1Z2S8ZVG06&index=13&ab_channel=kalasalingamFIP COMPETITION 13-Alcohol Roctket Challenge
- https://www.youtube.com/watch?v=lIqczcSignc&list= PLMAgEHsE8kpIiTEfOLOPlnylZ2S8ZVG06&index=14&ab_channel=kalasalingamFIP COMPETITION 14-EEE - Sustainable Smart Home Design
- https://www.youtube.com/watch?v=4jqPzd9W-Qg&list= PLMAgEHsE8kpIiTEf0L0PlnylZ2S8ZVG06&index=15&ab_channel=kalasalingamFIP COMPETITION 15 -Rc Car Design and Race