



Holy Cross College (Autonomous) Nagercoil – 629 004

Affiliated to Manonmaniam Sundaranar University, Tirunelveli
Nationally Accredited with A+ Grade (CGPA 3.35) by NAAC IV Cycle
An ISO 9001:2015 Certified Institution

SSR
2019-2020
to
2023-2024

3.3.1 Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident



Institution Innovation Council (IIC) Annual Report 2023-2024





HOLY CROSS COLLEGE (AUTONOMOUS)
Accredited with A⁺ Grade (CGPA 3.35 – 4th Cycle) by NAAC
Nagercoil - 629 004, Tamil Nadu, India

INSTITUTION'S INNOVATION COUNCIL (IIC)
ANNUAL REPORT (2023 - 2024)

Mentoring Clinic on Patents: A Guide to Protecting the Intellectual Property

Institution's Innovation Council in association with Holy Cross Innovation and Incubation Centre organized a Mentoring Clinic on "Patents: A Guide to Protecting the Intellectual Property" from 05-06-2023 to 07-06-2023. Ms. Meena Balakrishnan, IPR Attorney and Registered Patent Agent, Sprinton Law Office Law Firm, Coimbatore was the resource person. On 5th June 2023, she delivered a talk on the importance of filing the intellectual property. Afternoon, she started the mentoring session, the research scholars, students and the faculty members came in groups and discussed their innovative ideas and the inventions. The resource person gave groupwise mentoring and shared her valuable inputs. On 6th June to 7th June 2023, the mentoring session began at 10:00 am, the IPR attorney helped the students and the faculty members for patent drafting. All the participants utilized the facilities arranged by the management and the IIC members. As a result of this mentoring event 10 utility patent, 3 design patent and one trademark were filed. Total 100 participants were participated and get benefitted from this event.



Session on Accelerators/ Incubation - Opportunities for Early-Stage Entrepreneurs



Startup cell of Institution's Innovation Council organized a session on "Accelerators/ Incubation - Opportunities for Students and Faculty - Early-Stage Entrepreneurs" on 27-06-2023. Mrs. A. Glory, District Resource Person Non-Farm, Magalir Thittam, Kanniyakumari District was the resource person and spoke about the opportunities and schemes provided by Central and State Governments for entrepreneurship. She explained that the students must be aware of illegal financing groups that lure people into getting loans which leads to dreadful incidents. She also informed the students about Dr. Ambedkar's scheme for SC/ST

students through which they can be benefited. In addition, she shared the places where people can market their products like exhibitions, DD Agri marketing and so on. Totally, 80 students and 10 faculty members were benefitted from the orientation session.

Orientation Programme on Internshala

Internship cell of Institution's Innovation Council organized an orientation programme on "Internshala" on 28-06-2023. An orientation on Internshala online training was given by Dr. R. Sree Devi (Innovation Ambassador), Assistant Professor of Commerce, Holy Cross College (Autonomous) Nagercoil. She highlighted that the Internshala is India's No.1 internship jobs and training platform with 40000+ paid internships in Engineering, MBA, media, law, arts, and other streams. She mentioned a large number of courses and its importance for future career. She emphasized the need of registration in the portal. The programme focused on Internshala Training programmes with stipend and various jobs in different locations. 124 participated were participated in the programme.



Session on Business Model Canvas



Startup cell of Institution's Innovation Council organized a session on "Business Model Canvas" on 30-06-2023. Mr. N. Rahul (project lead), Mr. C. Gigin Durai (project Associate), and Mrs. Nagalingam (project Associate), Tamil Nadu startup and Innovation mission, Govt of Tamil Nadu were the resource persons. In the morning session Mr. N. Rahul explained about new businesses, product types, marketing and price strategies, sales process and Government schemes. In the afternoon session Mr. C. Gigin Durai explained about the business models and conducted group activities with students. Each groups discussed their business ideas and they have

got the new way of business thoughts. Mrs. Nagalingam explained the impacts of business models and the government training scheme facilities availed in this business models. Students were able to understand how to do business plan and model. The students were interested to participate in it and motivated to start new business. Totally 99 participants were benefitted from the session.

Panel Discussion with Innovation and Start-up Ecosystem Enablers

Social Media Cell of Institution's Innovation Council conducted a Panel discussion with innovation and Start-up Ecosystem Enablers on 17-07-2023. The topic for the panel discussion was "Designing and Building of E-Vehicle". The resource persons Mr. Jinu Martin, Founder/CEO, Lagoon Technologies, Mr. Sujin Roshan, Chief Information Officer, Lagoon Technologies, faculty and students discussed on the designing and building of e-vehicle. The programme was very useful and informative which kindled the young minds with the spark of innovation. 40 students and 6 faculty members were participated in the panel discussion.



Hands-on Training on Internshala



Internship cell of Institution's Innovation Council organized a Hands-on Training on "Internshala" on 21-07-2023. Dr. R. Sree Devi (Innovation Ambassador), Assistant Professor of Commerce, Holy Cross College (Autonomous) Nagercoil was the resource person. She gave a hands-on training to search and register for internship and job through internshala. The students got a knowledge about how to register and select suitable training in the portal. After the training session students clarified their doubts with the resource person. 85 students were benefitted from the programme. As an outcome of the

training programme some students were registered for internship through internshala.

Session on Angel Investment /VC Funding Opportunity for Early-Stage Entrepreneurs

IPR cell of Institution's Innovation Council organized a session on "Angel Investment / VC funding opportunity for early-stage Entrepreneurs" on 25-07-2023. Mr. R. Sujith, District Resource Person, Prime Minister Formalisation of Micro Food Processing Enterprises Scheme, Nagercoil was the resource person. He highlighted and explained about all the funding schemes for entrepreneurs including several subsidy schemes (from 5% to 80%) funded by Ministry of Micro, Small and Medium Enterprises (MSME), Micro Units Development Refinance Agency (MUDRA), Centre for Entrepreneurship Development (CED), Entrepreneurship Development Institute of India (EDII), Prime Minister Formalisation of Micro Food Processing Enterprises Scheme (PMFME), Bahwan Cybertec etc. He also discussed about the qualities of entrepreneur and entrepreneurial process and then listed out the top 10 women entrepreneurs. Ninety-two early-stage entrepreneurs from various discipline were benefitted from this session.



Session on Achieving Value Proposition Fit & Business Fit



Startup cell of Institution's Innovation Council organized a session on "Achieving Value Proposition Fit & Business Fit" on 25-07-2023. The resource person Mr. P. Muthukumar, Faculty, Indian Bank Rural Self Employment Training Institute, Kanyakumari District spoke about the opportunities and schemes provided by Central and State Governments for the

development of Startup. He also explained about the natural resources available in our district viz plantain, jackfruit and fish and asked the students to manufacture unique products from the resources. In addition, he shared the places where people can market their products like exhibitions, DD Agri marketing and so on. Nearly 46 participants attended the programme.

Intra Institutional Startup Competition

Startup cell of Institution's Innovation Council organized an Intra Institutional Startup competition on 08-08-2023. The competition was announced on 01-08-2023, 25 teams were registered for the competition and the innovative products were displayed on 8th August. Out of the 25 registered teams, 22 teams were participated in the competition. The students exhibited their innovative products and explained it. Dr. Sheeba Daniel, Convenor of IIC and Dr. Jeni Chandar Padua, Dean of Entrepreneurship Development were the judges. The judges evaluated the innovative products and the first three prizes were given to lot no: 6, 17 and 10 respectively. After the evaluation, the students of each department came and saw the innovative products and encouraged the participants.



Outreach Program on How to be Innovative



Innovation cell of Institution's Innovation Council organized an outreach program on the topic, "How to be Innovative" on 08-08-2023 at Pioneer Kumaraswamy College, Nagercoil. the resource person, Dr. R. Krishnapriya, (Innovation Ambassador), Assistant professor of Physics Holy Cross College (Autonomous), Nagercoil, gave a lively talk on "How to be innovative". She inculcated the students about innovation and also explained the early stage, middle stage, and final stages of invention. She shared her knowledge and experience as a mentor in order to pinpoint the areas where we fall short in expressing our innovative approach to start a business, how to remove obstacles, and how to take risks in order to innovate for the growth of enterprises. She motivated the students to become innovators. As an outcome, the students came to know about the advantages to become an innovator and built the culture of scientific innovations with in the campus. Totally 40 students were benefitted from the programme.

Session on Intellectual Property and Sustainable Development

IPR cell of Institution's Innovation Council organized a session on "Intellectual Property and Sustainable Development" on 21-09-2023. Dr. Sheeba Daniel (IIC convener and Innovation Ambassador), Assistant Professor of Chemistry, Holy Cross College (Autonomous), Nagercoil was the resource person. She gave an introduction on sustainable development and explained the 17 goals of sustainable development. Out of the 17 goals she highlighted the 9th goal Industry, Innovation and Infrastructure and described the role of innovation and intellectual property in sustainable development. She explained in detail about the components of intellectual property and displayed lot of innovative designs. She motivated the students to acquire more IP rights which will help them to promote innovation, protect intellectual property and contribute to economic growth. She displayed the patents and designs filed by the students and faculty of our institution. She motivated the students to think creatively and critically and also encouraged to do innovations for sustainable developments. She kindled the young minds with the spark of innovation. Totally 65 students were benefitted from this session.



Internal Hackathon



Institution's Innovation Council conducted the Internal Hackathon for Smart India Hackathon 2023 on 23-09-2023. Dr. M. Abila Jeba Queen (Innovation Ambassador), Assistant Professor of Physics, Holy Cross College (Autonomous), Nagercoil was appointed as the single point of contact (SPOC) for Smart India Hackathon 2023. Nine teams were registered for the internal hackathon, each team consist of 6 students. Dr. M. Abila Jeba Queen conducted the internal hackathon, all the teams presented their ideas and the team leaders of each team uploaded the ideas in the Smart India Hackathon 2023 portal. Totally, nine teams were submitted their innovative ideas for the problem statements listed in the Smart India Hackathon 2023 portal.

Session on Women and IP: Accelerating Innovation and Creativity

IPR cell of Institution's Innovation Council organized a session on "Women and IP: Accelerating Innovation and Creativity" on 27-09-2023. Dr. F. Brisca Renuga, Associate Professor of Zoology, Holy Cross College (Autonomous), Nagercoil was the resource person. She gave a brief introduction on the significance of IPR. She highlighted patents, trademarks, industrial designs, geographical indications, copyrights etc., with their corresponding rules, regulations, their needs and role especially pertaining to Indian context. She encouraged the students and gave the idea about how to create new inventions from daily facing problems. She also displayed several Indian women innovators and their business venture. She gave a chance for the students to present their new creations, more than 15 students shared their new ideas. She also spelled on the need of patents and how it is used to protect their creations. Totally, seventy students were benefitted from this session.

HOLY CROSS COLLEGE (AUTONOMOUS)
Accredited with A+ Grade (CGPA 3.35 - 4th Cycle) by NAAC
An ISO 9001:2005 certified Institution Four star rating by
MoE's Innovation cell NAGERCOIL - 629 004

INSTITUTION'S INNOVATION COUNCIL

IPR CELL OF INSTITUTION'S INNOVATION COUNCIL
Organizes a Session on
"Women and IP: Accelerating Innovation and Creativity"

Resource Person
Dr. F. Brisca Renuga
Associate Professor of Zoology
Holy Cross College (Autonomous)
Nagercoil

Date: 27.09.2023
Time: 1.15 p.m to 3.15 p.m
Venue: St. Joseph's Hall

Secretary : Dr. Sr. M. Mary Hilda
Principal & President of IIC : Dr. Sr. S. Sahayaselvi
Vice President of IIC : Dr. A. Anami Augustus Arul
Convener of IIC : Dr. Sheeba Daniel

Organizing Secretaries
Dr. C. Anitha, IPR Coordinator
Ms. S. Franista Dharshana
Dr. B.T. Deiba



Orientation Session on Innovation and Creativity - ATL School

Holy Cross College (Autonomous), Nagercoil
Accredited with A+ Grade by NAAC - CGPA 3.35 (4th Cycle)
Social Media Cell (SMC)

Orientation Session For ATL - School
Innovation and Creativity
12/10/2023 @ 10 am

Resource Person: **Er. Arul Jerald Prakash**
(Former Director, Kerala Science and Technology Museum and Priyadarshini Planetarium)

Venue: Government Higher Secondary School, Rajakkamangalam

President of HC: Dr. Sr. S. Sahayaselvi, Principal
Convener of HC: Dr. Sheeba Daniel
Program Coordinators: Sr. S. Anitha Mary & Dr. P. Aji Jithyay



Social media cell of Institution's Innovation Council organized an orientation session on "Innovation and Creativity" to the students of ATL school - Government Higher Secondary School, Rajakkamangalam on 12-10-2023. Er. Arul Jerald Prakash, Former Director of Kerala Science and Technology and Priyadarshini Planetarium, Thiruvananthapuram, a well-known innovator and motivational speaker addressed the school students and kindled their minds and thoughts with innovation and creativity through real life experiments and introducing various scientist who were known for their

innovation. This programme created an awareness on innovation and creativity among the school students. Totally, 73 students and 6 teachers were benefited from this programme. Ms. Usha Nirmala, Headmistress of Government Higher Secondary School, Rajakkamangalam expressed gratitude to the resource person, faculty members and students.

Institution's Innovation Day Celebration

To commemorate Institution's Innovation Day (Dr. A.P.J. Abdul Kalam's Birth Anniversary), the innovation cell of Institution's Innovation council organized a session on "Innovate to Elevate: A Dynamic Interactive Session on Fostering Creativity and Innovation" on 17-10-2023. Ms. J. Mary Asha (Innovator), I M.Sc Physics, Holy Cross College (Autonomous), Nagercoil was the resource person. She has published a patent in the Indian Patent Journal and filed a design patent. As an innovator, she shared her experience on design thinking and innovation. She displayed her innovations and motivated the students to do innovation. The session was very interactive and students clarified their doubts regarding design thinking and innovation. Students were identified the avenues where they could express their creativity and apply their innovative ideas. Nearly 68 students and 4 faculty members were participated in the interactive session.



Motivational Session by Successful Innovator



Innovation cell of Institution's Innovation council organized a motivational session on "My Story of a Successful Innovator" on 19-10-2023. Er. Arul Jerald Prakash, Former Director of Kerala Science and Technology and Priyadharshini Planetarium, Thiruvananthapuram was the resource person. The resource person started the session on Innovation. He talked about international and national innovators. After that he spoke about his self-innovations. He spoke about his hardships and failure in his life which made him a successful innovator. He was the first person who invented the world's first

tilted dome planetarium of a net worth of Rs. 15 crores. He invented automated (Joy Stick Operated) motorized wheel chair for which he received “DIVYANGJAN” award from the president of India. He formulated 3D screen and 3D projection. His other innovations are Butterfly Garden and Horticulture Therapy Garden. He concluded his speech with Global Innovation Index. There was great enthusiasm among the students and they were highly spirited. Nearly 66 participants were participated and get benefitted from the session.

Motivational Session by Successful Entrepreneur

Startup cell of Institution’s Innovation council organized a motivational session on “My Story of a Successful Entrepreneur” on 19-10-2023. The invited speaker Mr. P. Kalaperumal, Proprietor of Perumal Engineering Works, Nagercoil spoke about the opportunities and Challenges of a successful entrepreneur through his personal experience. He has faced lot of obstacles in his life and he has overcome the hurdles with courage and confidence. He explained the success story of his business and motivated the students to become entrepreneurs. Totally 50 participants were benefitted from this session.



Workshop on Problem Solving and Ideation

Holy Cross College (Autonomous)
 Affiliated to Mar Thoma Syrian University
 Accredited with A+ Grade (CGPA-3.32) by NAAC-19 Cycle
 Nagercoil, Tamilnadu, India

INTERNSHIP CELL OF INSTITUTION'S INNOVATION COUNCIL
 organizes
Workshop on Problem Solving and Ideation

Resource Person:
 Dr. A. Shyla Suganthi (Innovation Ambassador)
 Head & Assistant Professor of Zoology
 Holy Cross College(Autonomous)
 Nagercoil-4

Date: 26.10.2023
Time: 1 pm - 3pm
Venue: Seminar Hall

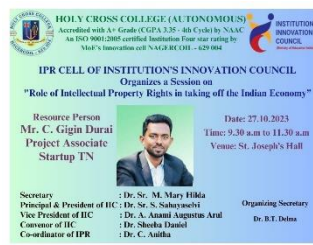
Members: President of HCC: Dr. S. Shyla Marie
 President of IC: Dr. S. Subramanian
 Convener of IC: Dr. Shyla David
 Head officer of Internship Cell: Dr. M. K. Angel Mathis
 Organizing Coordinator: Dr. S. Shyla Marie



Internship Cell of Institution’s Innovation Council organized a workshop on “Problem Solving and Ideation” 26-10-2023. The workshop focused on applying innovative ideas in real life problems. Dr. A. Shyla Suganthi (Innovation Ambassador), Head & Assistant Professor of Zoology, Holy Cross College (Autonomous) Nagercoil was the resource person. She highlighted many innovative ideas which were applied in day today life problems and made the things easy. Also, she explained how the small ideas can be converted as innovative ideas and solve real life problems. At the end of the workshop the students got clarity on ideation through interaction with the resource person.

Session on Role of Intellectual Property Rights in taking off the Indian Economy

IPR cell of Institution's Innovation Council organized a session on "Role of Intellectual Property Rights in taking off the Indian Economy" for interested student innovators on 27-10-2023. Mr. C. Gigin Durai, Project Associate, StartupTN, Nagercoil was the resource person. He gave a talk on the importance and benefits of intellectual property rights in Indian economy. He presented the global innovation index of various countries and pointed out the current status of our nation. He explained that how the intellectual property's potential acts as a catalyst for the social and economic progress of our nation. He described the role of intellectual property protection (IPP) regime especially the patent system in fostering innovation technology and industrial development of a country. The session instilled the students to know about the role of IP rights for the economic development of our country. Totally 74 students were benefitted from this session.



Seminar on Transforming Innovative Ideas into Inventions

The IPR cell of Institution's Innovation Council, Holy Cross College (Autonomous), Nagercoil organized a seminar on "Transforming Innovative Ideas into Inventions" for the budding innovators on 11-12-2023 at 10:30 am in St. Joseph's Hall. The programme started by invoking God's blessing through a prayer song. Ms. M. Anusha, II M.Sc Chemistry, Holy Cross College

(Autonomous), Nagercoil welcomed the gathering and introduced the resource person Dr. S. Lizy Roselet (Innovation Ambassador), Assistant Professor of Chemistry, Holy Cross College (Autonomous), Nagercoil. The resource person introduced the topic by engaging the students in



National Education Day Celebration

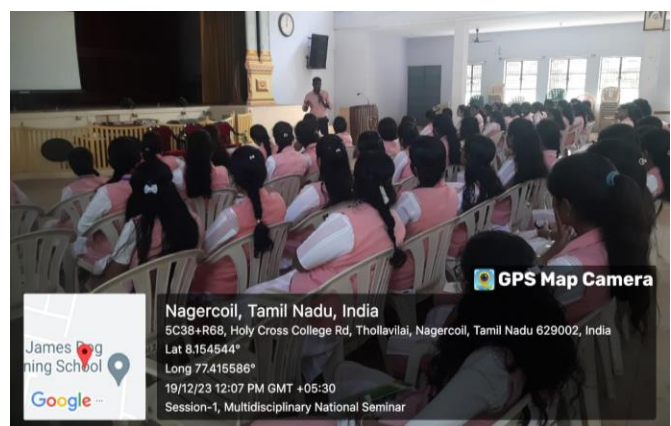


The Social Media Committee of the Institution Innovation Council celebrated National Education Day 2023 on 12-12-2023 at 11:00 am in Room No. 125. The event aimed to provide valuable insights into Innovative learning for sustainable growth of the youth. The session commenced with an invocation, offering prayers through a song. Ms. Pearlin Princey of II M.A English (SF) extended a warm welcome to the participants. Dr. P. Aji Udhaya, Assistant Professor, and Coordinator of the Social media Cell introduced the resource person, Ms. M. Maria Helen

Janoba, Head and Assistant Professor of English and Innovation Ambassador. The resource person delivered a talk on the topic “Embracing Innovation: Innovative Learning for a sustainable Future”. She shared her insights on innovative strategies adopted in higher education to enhance project-based interdisciplinary education, foster industry partnerships, implement mentorship programs, organize innovation competitions, and establish incubation centers, all aimed at promoting innovative learning for a sustainable future while also facilitating the development of patents and entrepreneurship. A total of 53 students and 4 teachers were participated in the session.

Orientation on Internship Opportunities in AI and ML

The Internship Cell of Institution’s Innovation Council organized an orientation session on “Internship Opportunities in Artificial Intelligence (AI) and Machine Learning (ML)” on 19-12-2023. The event aimed to enlighten students about the plethora of internship opportunities available in these cutting-edge fields. The session was graced by Mr. Christ Jose, Placement Officer at Holy Cross College (Autonomous), Nagercoil, who served as the resource person for the day. The program commenced at 11:00 am with a soulful prayer song, setting a positive



and focused atmosphere for the session. Mr. Christ Jose, with his extensive experience in placement services, delivered an insightful talk on the internship opportunities available in the fields of Artificial Intelligence and Machine Learning. He provided valuable information on the current trends, industry demands, and skill sets required to excel in these domains. Mr. Christ Jose talk was not only informative but also inspiring, motivating students to explore and pursue internships in AI and ML. The orientation session proved to be a resounding success, providing students with a roadmap to navigate the vast landscape of AI and ML internships. The event not only equipped students with knowledge but also inspired them to explore exciting opportunities in the ever-evolving domains of Artificial Intelligence and Machine Learning. Totally, 60 students and 4 faculty members were benefitted from the session.

Expert Talk on Process of Innovation Development and Technology Readiness Level



IIC-IPR
Process of Innovation Development
21.12.2023 11:49
8.15462, 77.41419
SC37+RCC, Holy Cross College Rd, Thollavilai, Nagercoil, Tamil
Nadu 629002

The IPR cell of Institution's Innovation Council organized an Expert Talk on “Process of Innovation Development, Technology Readiness Level; Commercialization of Lab Technologies & Tech-Transfer” for the budding innovators on 21-12-2023 at 11:30 am in St. Joseph’s Hall. The programme started by invoking God’s blessing through a

prayer song. Ms. I.P Jayshree, of III B.A English Literature introduced the resource person Dr. M.S. Starvin, Assistant Professor, Department of Mechanical Engineering, University College of Engineering Nagercoil. The resource person introduced the topic and began the session by guiding the audience through the intricacies of the innovation development process. He emphasized collaboration, creativity, and problem-solving, providing valuable insights into the stages of ideation, prototyping, testing, and refinement. He elucidated on the systematic assessment of technology maturity, navigating the audience through different TRL stages. The importance of advancing technologies through these levels for successful implementation was a key focus. He highlighted the importance of clear communication and collaboration between academia and industry for seamless knowledge exchange. Various models of technology transfer were explored, emphasizing the need for well-defined agreements and mutual understanding. Totally 100 students were benefitted from this session.

Orientation Session on Innovation and Entrepreneurship Ecosystem

The Innovation cell of Institution's Innovation Council organized an orientation session on "Innovation and Entrepreneurship Ecosystem" on 11-01-2024 in Seminar Hall. This programme aimed to inspire the young innovators and entrepreneurs by utilizing their creative abilities. Dr. Sheeba Daniel, Innovation Ambassador and IIC Convener, Assistant Professor of Chemistry, Holy Cross College

(Autonomous), Nagercoil was the resource person. Ms. Ambro Amalavarshini of III B.Sc Physics welcomed the gathering. The resource person highlighted the importance of creating innovation and entrepreneurship ecosystem in the campus. She also emphasised the significance of businesses, patents, innovation, and internships for the future citizens. The students were inspired to overcome obstacles and challenges in order to succeed as innovators and startup founders. After her talk, all the coordinators of the IIC team, individually, explained the implementation of innovation and entrepreneurship inside the campus. Totally 40 students and 10 faculty members were participated in the session



National Youth Day Celebration

Holy Cross College (Autonomous), Nagercoil
Affiliated to Mar Thoma Syrian University, Thrissur
 Accredited with A+ Grade (COPA 3-3) IV Cycle by NAAC

In commemoration of "National Youth Day 2024"
Social Media Committee of Institution Innovation Council
Organizes a seminar on
Entrepreneurial Opportunities for Youth- 2024
 on January 12, 2024 @ 1 p.m to 3 p.m
 Venue : St Joseph's Hall

Resource Person
Dr. M. Abila Jeba Queen
 (Innovation Ambassador)
 Assistant Professor
 Department of Physics
 Holy Cross College(Autonomous),
 Nagercoil

ORGANIZING COMMITTEE
DR.P.AJI UDHAYA
SR.ANTIN MARY
MS.M.MARIA HELEN JANODA

Patron: Dr. Sr. Mary Elida, Secretary
 President of IIC: Dr. Sr. S. Sabaya Seivi, Principal
 Convener of IIC: Dr. Sheeba Daniel

The Social Media Cell of Institution Innovation Council celebrated "National Youth Day - 2024" on 12-01-2024 at 1:00 pm in Room No. 24. The session commenced by invoking God's blessing through a prayer song. The programme commenced with a prayer song followed by welcome address by Ms. Mahisha of I B.Sc. Physics. Dr. P. Aji Udhaya, Assistant Professor and Coordinator of Social media Cell introduced the resource person, Dr. M. Abila Jeba Queen (Innovation Ambassador), Assistant Professor, Department of Physics. The resource person gave a brief detail of the entrepreneurial

opportunities available for youth. Students got the background knowledge about business plan, fund mobilization and commercialization. The programme was very useful and informative which kindled the young minds with the spark of entrepreneurship. 43 students along with 3 teachers were benefited out of the program.

Workshop on Design Thinking, Critical Thinking and Innovation Design

The Innovation cell of the Institution's Innovation Council organized a workshop on "Design Thinking, Critical Thinking and Innovation Design" on 18-01-2024 in St. Joseph's Hall. The workshop started with a prayer song. Dr. R. Krishna Priya, (Innovation Coordinator), Assistant Professor, Department of Physics, introduced the chief guest and welcomed the



gathering. After that the Technical Session I started, Dr. S. Arumuga Perumal, Director, Riyasaa Labs, Centre for Innovation, Nagercoil was the resource person. He shared his experiences and insights into IoT implementation in their respective fields. His presentation provided participants with valuable real-world perspectives. In the afternoon session, Hands on Training was provided by the Resource person Er. K. Vivekananth, IoT Engineer, Riyaasa Labs, Centre for Innovation, Nagercoil. Participants engaged in practical activities, including sensor integration, data collection, and project development. The hands-on sessions aimed to reinforce theoretical concepts and provide a tangible understanding of IoT technology. Live demonstrations showcased real world IoT applications, such as smart home systems and industrial automation. These demonstrations provided practical insights into how IoT technologies are employed in diverse scenarios. Dr. S. Lizy Roselet, Assistant Professor, Department of Chemistry expressed her gratitude to the resource persons and the participants. Fifty-eight students and four faculty members of various disciplines who were interested in innovation design were participated in the workshop.

IIC Regional Meet - South Zone



The IIC Regional Meet - South Zone was held on 24-01-2024 at Francis Xavier Engineering College, Tirunelveli. The inauguration of the regional meet began at 10:00 clock, the chairman of Francis Xavier Engineering College welcomed the gathering, followed by the chief guest address by Shri. Dipan Sahu. After the inaugural session, Shri. Dipan Sahu gave a brief introduction on IIC, Yukti and NISP. He highlighted the achievements and progress of IIC. The session was informative and interactive. In the afternoon session the participants were

divided into different groups and the resource persons of each group clearly explained about ATL, Innovation Ambassadors, Yukti NIR and IPR. The entire session was very useful and informative. Three faculty members and four students of Holy Cross College (Autonomous), Nagercoil participated and presented a poster and stalls in the IIC regional meet. The achievements, progress and the activities conducted by the institution in the IIC calendar year 2021-2022 and 2022-2023 were highlighted in the poster.

Field Visit to Micro Composting Centre, Nagercoil

A group of 50 students and two staff members for a field visit to the Micro Composting Centre, Nagercoil Corporation, Bousing Board, Nagercoil on 31-01-2024 at 11:00 am. The visit showcased the intricacies of waste management. The head of the composting centre explained the operations done in the composting centre. The workers collected the waste from different areas and segregate in to degradable and non-



degradable wastes. All the collected wastes were dumped into the machine for further processing. The process involved systematic waste separation, waste processing, grinding, and subsequent dumping into ten dedicated tanks. These tanks facilitated the drying of the waste, demonstrating an organized approach to composting. They interacted with the workers and knew about the difficulties and the problems which the workers are facing in the composting process. The field visit provided valuable insights into sustainable waste management practices and allowed the students to witness the practical aspects of composting. Finally, in the presence of workers in the micro composting centre, the students and staff members of Holy Cross College have taken an oath on separating the waste and give respect to the sanitation workers. Further, they got awareness about using organic fertilizer which is prepared by this composting centre.

Orientation on Micro, Small, and Medium Enterprises



The Internship Cell of the Institution's Innovation Council organized an Orientation Session on Micro, Small, and Medium Enterprises (MSME) sector on 15-02-2024 at 11:30 am in Cecile Hall. The session aimed to familiarize attendees with the opportunities and challenges in the MSME sector. Dr. K. Baby, Assistant Professor of History and Coordinator of Startup Cell at Holy Cross College (Autonomous), Nagercoil was the resource person. The session commenced with an introduction by Dr. M. K. Angel Jebitha, highlighting the significance of MSMEs in the economic landscape and their role in fostering innovation and entrepreneurship. Dr. K. Baby delivered an insightful presentation on various aspects of the MSME sector, including its contribution to employment generation, GDP growth, and export promotion. She also shed light on the government schemes and support mechanisms available for MSMEs. The session concluded with an interactive Q&A session, where participants engaged in discussions on topics ranging from financing options for MSMEs to market access strategies. Overall, the Orientation Session provided attendees with valuable insights into the MSME sector and equipped them with knowledge to navigate the challenges and leverage the opportunities within the industry. Totally, 55 students and 3 faculty members were benefitted from the session.

Hands-on-training on Digital Marketing

The Startup Cell of Institution's Innovation Council organised a Hands-on-training on "Digital Marketing" 20-02-2024 in St. Joseph's Hall. The programme began with a prayer song followed by welcoming the invited Speaker Mr. J. Jenslin Vino, Media Analyst - Freelancer. He highlighted the importance of content in digital marketing and strategies for creating compelling and engaging content that resonates with target audiences. He also provided an overview of key concepts, trends, and best practices in digital marketing. He shared his insights into creating and managing effective PPC campaigns on platforms like Google Ads and Facebook Ads. He also guided the students to apply for GST and business registration. Totally, 90 students and 4 faculty members attended the programme.



Intra Institutional Idea Competition - Holy Cross Innovation Contest 2024



The Innovation Cell of Institution's Innovation Council in collaboration with HCIIC organized an Intra Institutional Idea Competition - Holy Cross Innovation Contest 2024 on 23-02-2024. The contest was conducted in three rounds. First round was the Idea Submission, the students submitted their ideas through Google form. Totally 14 teams (22 students) were participated and submitted their ideas. Twelve students were shortlisted for the second

round and submitted the Proof of Concept. The final round of the contest was inaugurated and felicitated by our principal Dr. Sr. S. Sahayaselvi. Er. G. Arul Jerald Prakash, Former Director, Kerala State Science and Technology Museum and Planetarium, Thiruvananthapuram was the chief guest

for the contest. The selected students presented their prototype in the Multipurpose Hall. The chief guest and Dr. Sheeba Daniel, Convener of IIC were the judges. The winners were chosen by the Judges. All of the students who took part in the Idea Contest are much appreciated. Dr. Sr. Francy, Assistant Professor of Chemistry, honoured the winners with cash awards and certificates. Total 58 students and 8 faculty members participated and motivated the young innovators in the final day of the contest.

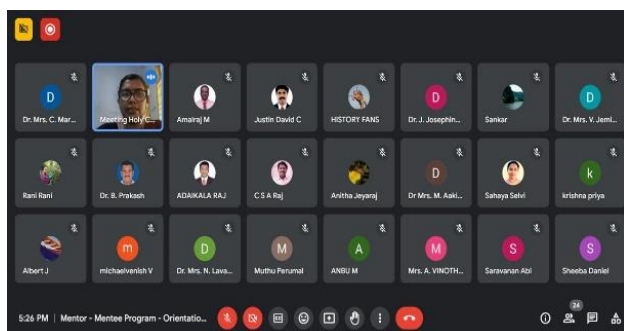
Workshop on Entrepreneurship Skill, Attitude and Behaviour Development

The Startup Cell of Institution's Innovation Council organised a Workshop on "Entrepreneurship Skill, Attitude and Behaviour Development" on 29-02-2024 at 9:00 am in Room No: 81. The programme began with a prayer song followed by welcoming the resource persons Ms. Vidhya (Alumni Entrepreneur), Teacher, St.



Francis Primary School, Vavarai, Mrs. T. Vinit (Alumni Entrepreneur), J V Beauty Parlour, Punnai Nagar and Ms. Ansala. H, (Student Entrepreneur), Founder Ansala Arts. The resource persons shared about how to develop the entrepreneurship skills, attitude and behaviour. Their talk served as a catalyst for individuals to embrace entrepreneurship with confidence, resilience, and a proactive approach to seizing opportunities and overcoming challenges. Totally 48 students and 3 faculty members attended the workshop.

Mentor-Mentee Programme: Orientation I

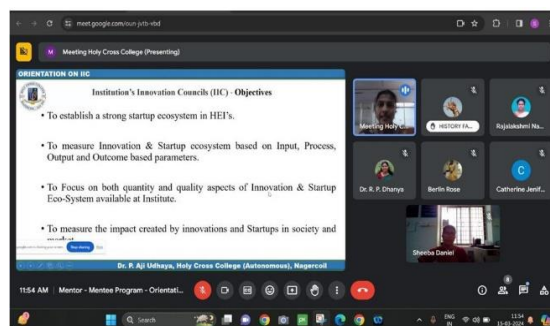


The Orientation & Mentoring Session for Mentee Institutions Arul Anandar College (Autonomous), Karumathur & Jayaraj Annapackiam College for Women (Autonomous) Periyakulam was organized by the Institution's Innovation Council on 13-03-2024. The event commenced with a prayer song seeking divine blessings. Dr. Sr. S. Sahayaselvi, the Principal and President of IIC, inaugurated the program and introduced the resource person, Dr. Sheeba Daniel (IIC convener and Innovation Ambassador). The resource person provided an overview of the goals and operations of

the Institution's Innovation Council, elaborating on its various activities. The session facilitated discussions, particularly addressing queries regarding Entrepreneurship oriented training sessions, hackathons and innovation contests. Twenty four IIC members from the mentee institutions were participated in the session.

Mentor-Mentee Programme: Orientation II

The Orientation & Mentoring Session for Mentee Institutions Arunachala Arts and Science College for Women, Vellichanthai, Ezhuthachan College of Pharmaceutical Science, Thiruvananthapuram and Noorul Islam College of Arts and Science, Kumarakovil was organized by the Institution's Innovation Council on



15-03-2024. The event commenced with a prayer song seeking divine blessings. Dr. Sheeba Daniel, the Convenor of IIC inaugurated the program and introduced the resource person, Dr. P. Aji Udhaya (Mentor-Mentee Coordinator and Innovation Ambassador), Assistant Professor of Physics. The resource person provided an overview of the goals and operations of the Institution's Innovation Council, elaborating on its various activities. The session involved discussions, focusing on queries regarding Entrepreneurship-oriented training sessions, hackathons, and innovation contests. Dr. R. Krishna Priya, Assistant Professor of Physics expressed the gratitude to both the resource person and attendees. Totally 15 IIC members from the mentee institutions were benefited from the session.

Seminar on Intellectual Property Protection in the Age of Industry 4.0



The IPR Cell of Institution's Innovation Council organized a seminar on “Intellectual Property Protection in the Age of Industry 4.0: Challenges and Solutions” on 27-03-2024 in St. Joseph’s Hall. The programme commenced with a prayer song by invoking divine blessings. Ms. R. Santhiya of II B.A.

English welcomed the gathering and introduced the resource person, Dr. Sivaganesh Dhanushkodi, Postdoctoral Researcher, Institute of Physics and Technology, Ural Federal University, Russia. The resource person initiated the session by engaging the audience with interactive questions, setting a dynamic tone for the discussion. He delved into the nuances of protecting intellectual property,

emphasizing the significance of patents, copyrights, and trademarks in safeguarding innovative products. Through detailed explanations, he elucidated the criteria for patent eligibility and the intricacies of copyright and trademark laws. His insights were particularly beneficial for aspiring inventors, providing them with valuable knowledge on navigating intellectual property rights. About 55 students were enlightened by the seminar, gaining valuable insights into intellectual property protection in the digital age.

Session on Navigating the Entrepreneurial Journey from Internship to Startup

The Internship Cell of Institution's Innovation Council organized a session on "Navigating the Entrepreneurial Journey from Internship to Startup" on 10-04-2024. Dr. R. Sreedevi, Assistant Professor of Commerce and Innovation Ambassador, Holy Cross College (Autonomous), Nagercoil, served as the resource person. The session began with a discussion on the challenges and opportunities faced by individuals transitioning from internships to entrepreneurship. She highlighted the importance of leveraging the skills and experiences gained during internships to build a strong foundation for entrepreneurial ventures. The session served as a platform for knowledge sharing, networking, and inspiration, empowering participants to embark on their entrepreneurial journey with confidence and determination. 48 students were participated in the session.



Session on Intern to Entrepreneur: Building Your Path in Innovation



The Internship Cell of Institution's Innovation Council organized a session on "Intern to Entrepreneur: Building Your Path in Innovation" on 12-04-2024. Dr. M. Abila Jeba Queen, Assistant Professor of Physics and Innovation Ambassador, Holy Cross College (Autonomous), Nagercoil, served as the resource person. She explained about innovation and how to transform an intern to entrepreneur. She also highlighted the opportunities and significance of doing internship. Totally, 52 students were benefitted from the session.

Workshop on Entrepreneurship and Innovation as Career Opportunity

The Social Media Cell of Institution's Innovation Council organized a workshop on "Entrepreneurship and Innovation as Career Opportunity" on 12-04-2024 at 9:00 am in Room No. 24. The session commenced with a prayer song followed by welcome address by Ms. Stanecilla of I B.Sc Physics. Dr. P. Aji Udhaya, Assistant Professor, and Coordinator of the Social Media



Cell introduced the resource persons, Ms. Joe A Nituna, Startup founder of Nila Dream Creations and Ms. R. K. Renuka, Startup founder of R.K Creative Gifts and Crafts. Two activities were conducted to stimulate student ideas, promoting innovation and entrepreneurship, and allowing students to embody the roles of innovators and all stakeholders in entrepreneurship. The resource persons motivated the students to become entrepreneurs and explained about the career opportunities in entrepreneurship. The resource persons divided the students into different groups and gave a task about entrepreneurship for discussion. The students were interestingly responded to the resource persons and they had a good discussion and interaction. Totally, 49 students and 2 faculty members were benefitted from the workshop.

Session on Achieving Problem Solution Fit and Product Market Fit

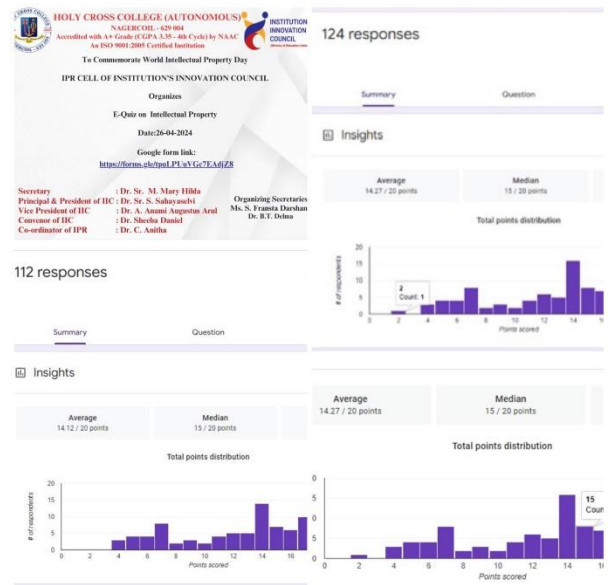


The Startup cell of Institution's Innovation council organized an orientation session on "Achieving Problem Solution Fit and Product Market Fit" on 13-04-2024 at 10:00 am in Room No. 81. The session began with a prayer song, Ms. Bershiya, Founder of Arutra Create was the resource person. She spoke about the opportunities and Challenges of

a successful entrepreneur. She also explained about how to achieve problem solution fit and product market fit. She insisted the budding entrepreneurs to do customer survey and market demand for their products. The session was very informative. Totally 45 participants were benefitted from this session.

World Intellectual Property Day Celebration

To commemorate World Intellectual Property Day, the IPR Cell of Institution's Innovation Council organized an "E-Quiz on Intellectual Property" for students on 26-04-2024. The event aimed to enhance awareness and understanding of IPR among students. The quiz was conducted *via* a Google Form and tested participant's knowledge on various aspects of IPR, including patents, trademarks, copyrights, and industrial designs. The quiz promoted the importance of IPR in fostering innovation and safeguarding creative works. About 124 students from various departments participated in the quiz.



World Creativity and Innovation Day



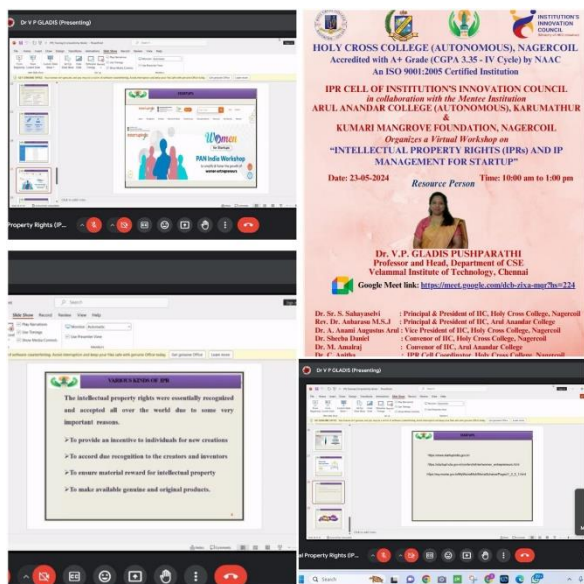
In view of World Creativity Day, the Innovation cell of Institution's Innovation Council, and Holy Cross Innovation and Incubation Centre conducted an E-Poster making competition on the topic "Transforming World, Promoting Sustainable Development" on 15-05-2024. The due date to submit the poster is on 15-05-2024. Totally 20 participants were participated. Out of the 20 participants, the best posters were chosen and rewarded.

National Technology Day Celebration

In view of National Technology Day celebration, the Social Media Cell of Institution's Innovation Council created and shared a video titled "Impact of Technology on Nature" on 20-05-2024. The video was posted on YouTube, Facebook, Twitter, and LinkedIn. The video described the growth of technology in different aspects. 101 viewers viewed the video.



Workshop on Intellectual Property Rights and IPR Management for Startup



The IPR Cell of Institution's Innovation Council organized a Workshop on "Intellectual Property Rights and IPR Management for Startup" in collaboration with Arul Anandar College (Autonomous), Karumathur and Kumari Mangrove Foundation, Nagercoil on 23-05-2024. Dr, V.P. Gladis Pushparathi, Professor and Head of the Department of Computer Science and Engineering of Velammal Institute of Technology, Chennai was the resource person and delivered a talk on IPR and startup. She gave an overview on IPR and its

significance and demonstrated the components of IPR. She also explained about the difference between startup and entrepreneurship. Furthermore, she highlighted the various government scheme for startup. She clarified the queries raised by the participants. Totally 105 students and faculty attended the workshop.

Sheeba

Convener
Institution's Innovation Council (IIC)
Holy Cross College (Autonomous)
Nagercoil - 4