



# ARIIA

## ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



**MoE**  
Ministry of Education  
Government of India

### Verification Submitted Institute Data for Atal Ranking of Institutions on Innovation Achievements (ARIIA) - 2020-21

Institute Name: Sree Narayana College for Women, Kollam [ARI-C-43743]

### List all the departments / centers / units are part of innovation and startup ecosystem of the institute

Srno	Department / Center / Unit Name	Type of Department / Center / Unit	Mention the Stream / Discipline / Sector of focus	Department / Center / Unit Level	Program Type	Student / Beneficiary Strength (2019-20)	Academic Staff Strength (2019-20)	Non-academic Staff Strength (2019-20)
1	Department of Malayalam	Academic Department with lab facility	Malayalam/Theater Arts	UG / PG / PhD	Non-Technical	197	7	0
2	Department of Hindi	Academic Department with lab facility	Hindi/ Functional Hindi	UG / PG / PhD	Non-Technical	159	6	0
3	Department of Physics	Academic Department with lab facility	Physics/Nanotechnology/Energy Physics	UG / PG / PhD	Non-Technical	184	10	1
4	Department of Botany	Academic Department with lab facility	Botany/Bioinformatics/Biotechnology/Biostatistics	UG / PG / PhD	Non-Technical	152	5	1
5	Department of Chemistry	Academic Department with lab facility	Chemistry/Material Science	UG / PG / PhD	Non-Technical	184	12	1
6	Department of Biochemistry and Industrial Microbiology	Academic Department with lab facility	Biochemistry/Industrial Microbiology	UG / PG / PhD	Non-Technical	100	4	1
7	Department of English	Academic Department with lab facility	English/Psychology/Cultural Studies/Media Studies/Translations/Communicative English/Journalism	UG / PG / PhD	Non-Technical	251	17	1
8	Department of Home Science	Academic Department with lab facility	Home Science/Nutrition Science	UG / PG / PhD	Non-Technical	162	7	1
9	Department of Economics	Academic Department with lab facility	Economics /Human Resource Management/Behavior Economics /Data Science	UG / PG / PhD	Non-Technical	408	5	0
10	Department of Commerce	Academic Department with lab facility	Commerce/e-Business/Business Statistics	UG / PG / PhD	Non-Technical	177	5	0
11	Department of Geography	Academic Department with lab facility	Geography/geology/ Geography of tourism/Weather Forecasting	UG / PG / PhD	Non-Technical	54	3	0

**List all the departments / centers / units are part of innovation and startup ecosystem of the institute**

12	Department of Music	Academic Department with lab facility	Vocal/Instrumental music	UG / PG / PhD	Non-Technical	39	3	0
13	Department of History	Academic Department with lab facility	History/politics	UG / PG / PhD	Non-Technical	233	5	0
14	Department of Zoology	Academic Department with lab facility	Zoology/Aquatic Biology/Environmental Science	UG / PG / PhD	Non-Technical	156	5	1
15	Department of Mathematics	Academic Department with lab facility	Mathematics/Statistics/Computer Programming	UG / PG / PhD	Non-Technical	161	3	1
16	Physical Education	Academic Department with lab facility	Health & Fitness Education/Various Sports & Games - Cross Country, Kabaddi, Wrestling, Weight lifting, Boxing, Athletics, Power lifting, Canoeing & Kayaking, Roll ball	At all level	Both	186	2	0
17	Chemistry Research Laboratory	Research Unit / Park	Chemistry/Material Science/Nanotechnology	UG / PG / PhD	Non-Technical	3	11	1
18	Physics research laboratory	Research Unit / Park	Nanotechnology/energy physics	UG / PG / PhD	Non-Technical	3	9	1

**Participation of HEI in Innovation & Entrepreneurship Initiatives of Ministry of Education (Till Today)**

Programs/Initiatives	Status	Registration ID
Adopted National Innovation and Start-up Policy at the HEI	Yes	Not Required
Establishment of Institution's Innovation Council (IIC) at HEI	YES	IIC Registration ID : IC202115807
Trained Innovation Ambassadors at HEI	NO	Not Required
Participation in Smart India Hackathon (SIH)	No	Not Required
Facilitated listing start-ups/ technologies in Young India combating COVID with Knowledge, Technology and Innovation (YUKTI 2.0) portal of MIC	No	Not Required
Participation in National Education Alliance of Technology (NEAT)	No	Not Required

**Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI**

Srno	Name of Program (Full Name)	Program Theme	Program Type	Program Category	Organizing Department / Centre / Student Body Name	Program Start Date	Program End Date	Program Duration(in Days)	Program Location	Internal Participants (Student)	Internal Participants (Faculty)	External Participants (Student)	External Participants (Faculty)	Total Number of Participants	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?
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**Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI**

1	Invited lectures on 'Smart Materials and Analytical Techniques	Innovation	Seminar	Institute Lead Activity	Department of chemistry, SNCW, Kollam	03-09-2019 00:00:00	03-09-2019 00:00:00	1	Within Campus	130	18	10	2	160	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
2	ONE DAY SEMINAR ON PASSIONPRENEUR CULTURE : EXPLORING NEW HORIZONS IN CAREER PROSPECTS	Entrepreneurship/Startup	Seminar	Institute Lead Activity	Department of Commerce	06-02-2020 00:00:00	06-02-2020 00:00:00	1	Within Campus	70	4	0	0	74	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	3000	No

**Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

Srno	Name of Program (Full Name)	Program Theme	Program Type	Organizing Agency / Institute Name	Organizing Agency Type	Program Start Date	Program End Date	Program Duration(in Days)	Participants (Students)	Participants (Faculty)	Total Number of Participants	Awards/Recognitions/Achievements	Award / Position / Recognition Secured	Title of Innovation / Start-up Secured the Award / Recognition	Had institute spent expenses either from own resource/ received fund towards sending delegation to participate / represent the activity / event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research
1	International Seminar on photochemistry and Sustainable energy	Innovation	Seminar	Department of Chemistry, St Micheals College Cherthala	Educational Institute	16-10-2019 00:00:00	19-10-2019 00:00:00	4	0	3	3	No	---	---	No	No

**Section 2 > i : List the Academic Programs on Innovation, IPR and Entrepreneurship Development Offered During the Academic Period (2019-20)**

Srno	Title of Course/Subject Offered	Program Theme	Type of Course	Course Offering Department/Centre/Unit Name	Level of Course	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Numbers of Participants	Total Numbers of Contact Hours of Course ( Minimum 30 Contact hours)
1	Entrepreneurship Development	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of commerce	03-06-2019	31-10-2019	151	Offline	61	96
2	Entrepreneurship Development	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Department of Home Science	03-06-2019	28-10-2019	148	Offline	7	110

3	Entrepreneurship and IP strategy (SWAYAM-MOOCs)	Entrepreneurship/Startup	Short term Course	Short Term Certificate Course	SWAYAM-NPTEL local chapter (LC ID 4124)	14-09-2020	04-12-2020	82	Online	5	60
4	Innovation Business Models and Entrepreneurship (SWAYAM-MOOCs)	Entrepreneurship/Startup	Short term Course	Short Term Certificate Course	SWAYAM-NPTEL local chapter (LC ID 4124)	14-09-2020	04-12-2020	82	Online	60	60

**Section 2 > ii : List the Employment Generation Skill Development Programs Organized by the HEI on Innovation, IPR and Entrepreneurship Development During the Academic Period (2019-20)**

**No Data Filled!**

**Section 2 > iii : List the Full Time Faculties had with a Degree (UG/PG/PhD) in Innovation/IPR/Entrepreneurship and (or) Received Specialized Training program of I&E, IPR (MDP, EDP, FDP, Short-term Certificate Course, of minimum 30 hours Duration) conducted by various State, Central Govt. agencies, and Knowledge Agencies in the Academic Period (2019-20)**

Srno	Faculty Name	Department/Centre/Unit Name	Designation	Do you have a degree in I&E & IPR?	Had the faculty received training on I&E & IPR during AY 2019-20				
1	Sajitha S	Department of Commerce	Assistant Professor	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	ONE WEEK FACULTY DEVELOPMENT PROGRAMME ON ENTREPRENEURSHIP AND INNOVATION	Entrepreneurship/Startup	FDP in I&E, IPR	RAMANUJAN COLLEGE UNIVERSITY OF DELHI	Educational Institute	23-06-2020 00:00:00	29-06-2020 00:00:00	7	Online
2	Dr. Poonima Vijayan P	Department of Chemistry	Assistant Professor	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	Nanomaterials characterization techniques and results Analysis Methodology: Ideas, Innovations and Initiatives	Innovation	FDP in I&E, IPR	MHRD'S Faculty Development center HRDC, Savitribai Phule Pune University, Pune, Maharashtra.	Educational Institute	27-07-2020 00:00:00	31-07-2020 00:00:00	5	Online
3	Dr. Asha Bhanu A.V	Department of Chemistry	Assistant Professor	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
4	Dr. Deepak Nand	Department of Physics	Assistant Professor	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery

**Section 3 > i : List Idea/Innovation Centric Student Clubs Are Functional at the HEI with Access to Co-working Space/Work-stations for Students with Facilities & Equipment Available to promote and Support Innovation, Entrepreneurship and IPR Activities in Campus**

Srno	Name of Student Club	Type of Club	Year of Establishment	Type of Facilities Available at the Club	Student Club with Access to Other I&E Facilities at the HEI	No of Programs/Activities Organized by the Student Club During the AY 2019-20	Student Club Team Lead Name	Student Club Team Lead Email	Student Club Team Lead Phone
1	ENTREPRENEURSHIP DEVELOPMENT CLUB	Idea Club	2010	Co-working Space	No Such Facilities Exist in the Campus	1	GREESHMA R	greeshmar387@gmail.com	7560927668
2	Nature club	Innovation Club	2010	None	Pre-Incubation Unit	1	Praveena G	praveenagsivaprasad@gmail.com	8590324054

**Section 3 > ii > a : List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)**

Srno	Name of Pre-Incubation Centre	Type of Facility	Year of Establishment	Type of Facilities Available at the Centre	Pre-Incubation with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with Pre-Incubation Unit, if any (Optional)	Facility Details		Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Pre-Incubation Unit Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20	Had institute Generated Income either from Services Offered by Pre-Incubation Centre/Facilities?		Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Pre-Incubation Centre/Facilities?						
							Facility Incharge Name	Facility Incharge Email			Facility Incharge Phone	Yes		No					
1	Sanitizer Production	Startup Cell	2020	None	Innovation Park/Research Park, Student Clubs	Innovation Park/Research Park, Student Clubs	Chithra P G	chithra sumej@gmail.com	9447027826	0	No	<table border="1"> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td>10000</td> </tr> <tr> <td>Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)</td> <td>10000</td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td>0</td> </tr> </table>	Total Annual Income from Training and Skill Development Services (In Rupees)	10000	Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	10000	Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0	Yes
Total Annual Income from Training and Skill Development Services (In Rupees)	10000																		
Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	10000																		
Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0																		

**Section 3 > ii > a : List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)**

Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)												
Institute's Own Fund / Resource		Department of Chemistry, Sree Narayana College for Women, Kollam		Educational Institute		10000												
2	Mushroom cultivation unit	Startup Cell	2017	Co-working Space	Student Clubs	Student Clubs	0	No	<table border="1"> <thead> <tr> <th colspan="2">Yes</th> </tr> </thead> <tbody> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td>25000</td> </tr> <tr> <td>Total Annual Income from (Technical and Business ) Mentoring Services (In Rupees)</td> <td>0</td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td>0</td> </tr> </tbody> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)	25000	Total Annual Income from (Technical and Business ) Mentoring Services (In Rupees)	0	Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0	Yes
Yes																		
Total Annual Income from Training and Skill Development Services (In Rupees)	25000																	
Total Annual Income from (Technical and Business ) Mentoring Services (In Rupees)	0																	
Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0																	
Institute's Own Fund / Resource		Department of Botany, Sree Narayana College for Women, Kollam		Educational Institute		10000												

**Section 3 > ii > a : List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)**

3	Medicinal Plant cultivation unit	Startup Cell	2010	Co-working Space	Student Clubs	Student Clubs	Facility Incharge Name	Archan P J	0	No	Yes		Yes
							Facility Incharge Email	archanapibotech@gmail.com			Total Annual Income from Training and Skill Development Services (In Rupees)	25000	
							Facility Incharge Phone	8606764420			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0	
											Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	25000	
Source of Grant / Fund						Agency Name			Agency Type		Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)		
Institute's Own Fund / Resource						Nature club			Educational Institute		7500		

**Section 3 > ii > a : List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)**

4	Vegetable Gardening	Startup Cell	2015	Co-working Space	Student Clubs	Student Clubs	Facility Incharge Name	Devi Priya D	2	No	Yes		Yes
							Facility Incharge Email	devipriyad@snwam.org			Total Annual Income from Training and Skill Development Services (In Rupees)	10000	
							Facility Incharge Phone	6282348756			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	10000	
											Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	25000	
Source of Grant / Fund						Agency Name			Agency Type		Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)		
Institute's Own Fund / Resource						SN college for Women			Educational Institute		10000		

**Section 3 > ii > b : List the Centre of Excellence (CoE) Facilities with Advance Tools and Equipment at the HEI (>= 1000 Sq. Ft. Floor Area)**

No Data Filled!

**Section 3 > ii > c : List the Incubation Facilities at the HEI (>= 1500 Sq. Ft. Floor Area)**

No Data Filled!

**Section 3 > ii > d : List the Innovation Park/Research Park Facilities at the HEI (>= 5000 Sq. Ft. Floor Area)**

No Data Filled!



**Section 3 > ii > e : List the IPR Cell/Technology Transfer Centre Facilities at the HEI**

No Data Filled!

**Section 3 > iii > a : Provide detail list of Faculties as Mentor to help Ideas/Innovations/Startups**

No Data Filled!

**Section 3 > iii > b : Provide detail list of External Experts/Agencies engaged as Mentor to help Ideas/Innovations/Startups**

No Data Filled!

**Section 4 : List all the Innovations Generated Developed, Completed and Implemented in Ground with Support of Pre-incubation & Incubation facilities at the HEI and Recognitions Received**

Srno	Name of the Innovation Generated with the Support of HEI	Type of Innovation	Nature of Innovation	Name of the HEI Supported Innovation Development	Innovation Developed by	Stage of Innovation/ Stage of TRL it started receiving the Support during the FY 2019-20	Stage of Innovation/ Stage of TRL reached as on 31st March 2020	Status Pre-Incubation/Incubation Support to Innovation as on 31st March 2020	Had the Innovation Received any Recognition at State, National, International Level Programs during the financial period 2019-20	Had the Innovation Converted into Venture/Startup/SME Unit during the financial period 2019-20	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2019-20	Had the Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or HEI during the financial period 2019-20	Had the Pre-incubation/Incubation Centre/HEI received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2019		
1	Development of chicken feather fiber filled epoxy protective coating for metals	Product Innovation	Technological	Department of Chemistry	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	<table border="1"> <tr> <td>Grant Amount in Rs</td> <td>10000</td> </tr> </table>	Grant Amount in Rs	10000	No	No
Grant Amount in Rs	10000														
				<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Gender</th> <th>Email</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td>Poornima Vijayan P</td> <td>Faculty</td> <td>Female</td> <td>poornimavijayan2007@gmail.com</td> <td>9400769509</td> </tr> </tbody> </table>		Name	Type	Gender	Email	Contact	Poornima Vijayan P	Faculty	Female	poornimavijayan2007@gmail.com	9400769509
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Poornima Vijayan P	Faculty	Female	poornimavijayan2007@gmail.com	9400769509											
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Name	Type	Gender	Email	Contact											
Asha Bhanu A V	Faculty	Female	ashasreegowri@gmail.com	-											

2	Development of nanocellulose paper from cotton nut shell and sawdust	Product Innovation	Technological	Department of Chemistry	Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	Grant Amount in Rs 5000	No	No
Name		Type			Gender		Email		Contact				
Dr. Vijayalekshmi V		Faculty			Female		lekshmi500@gmail.com		9446592327				
3	Generation of biodegradable chitosan/clay nanocomposite film in collaboration with Matsyafed Neendakara Chitin processing unit, Kollam	Product Innovation	Technological	Chemistry Research Laboratory	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Ongoing	No	No	Grant Amount in Rs 3000	No	No
Name		Type			Gender		Email		Contact				
Dr. Vijayalekshmi V		Faculty			Female		lekshmi500@gmail.com		9446592327				

**Section 5 : List all the Ventures/Startups/SME Units Established with Support of Pre-incubation & Incubation facilities at the HEI**

No Data Filled!

**Section 7 > i : List all the Collaborations with External Agencies and Co-Creation of I&E Activities by the HEI**

No Data Filled!

**Section 8 > ii : List the IPs Filed/Published/Granted (Copyright & Designs Only) by the HEI as an Applicant / Co-applicant / Co-owner**

No Data Filled!

**Section 8 > iii : List the IP (Patents only) Filed by the HEI as Applicant / Co-applicant / Co-owner**

No Data Filled!

**Section 8 > v : List the IPs hold by the Innovation teams/Startups Incubated at the Pre-incubation/incubation Unit of the HEI**

No Data Filled!

**Section 8 > vi : List the IP Commercialized/Transferred Published & Granted to HEI as Co-applicant/Co-owner**

**No Data Filled!**

## Declaration

To,  
The ARIIA Committee  
MHRD's Innovation Cell  
New Delhi

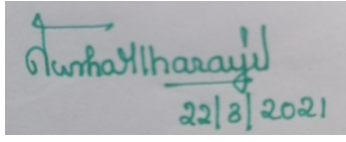
### Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself Dr. Nisha J Tharayil (Head of Institute) and Dr. Poornima Vijayan P (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

Thank you

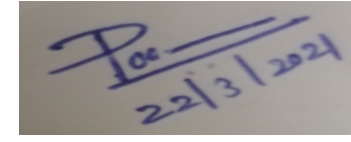
The Head of Institute



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Dr. Nisha J Tharayil  
Head of the Institution,  
Kollam, Kerala

Nodal officer



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Dr. Poornima Vijayan P  
Nodal Officer,  
Kollam, Kerala