



ARIIA

ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



MHRD
Ministry of Human
Resource Development
Government of India

Submitted Institute Data for Atal Ranking of Institutions on Innovation Achievements (ARIIA)

Institute Name: MALLA REDDY COLLEGE OF ENGINEERING [ARI-I-1008]

Awareness / Training / Programmes organized by the Institute

Total Annual Expenditure Incurred towards Organizing Awareness, Workshop, Seminars, Training programs etc. related to promote innovation, IPR and Entrepreneurship Development

Financial Year	Program Type	Name of Program	Program Theme	Program Duration	Program Conducted	Participants Details			Expenditure Incurred		
						Number of Internal Participants	Number of External Participants	Total Number of Participants	Institute Own / Internal Fund (in Rs.)	Sponsorship / External Fund	Total Expenditure Incurred
2015-16	Workshops / Training / Seminars / Conferences	Intellectual Property Rights and related Issues and Challenges	IPR	28-Sep-2015 to 29-Sep-2015 (2 Days)	Within Campus	30	22	52	30000.00	0.00	30000.00
2016-17	Workshops / Training / Seminars / Conferences	Best Practices in Industry-Academia Collaboration and Innovations	IPR	20-Jun-2016 to 21-Jun-2016 (2 Days)	Within Campus	54	23	77	36000.00	0.00	36000.00
2017-18	Workshops / Training / Seminars / Conferences	Awareness program on Intellectual property Rights	IPR	21-Jun-2017 to 22-Jun-2017 (2 Days)	Within Campus	60	25	85	40000.00	0.00	40000.00

Institute's Participation in Events / Programmes organized by the External Agencies

Total Annual Expenditure Incurred towards Supporting Students and Faculties to Participate/Present in National and International Level Innovation and Start-up Events/Competitions/Hackathons etc.

Financial Year	Program Type	Program Theme	Name of Event	Organizing Agency / Institute Name	Level of Event	Type of Participants	Nos of Participants	Achievements (Awards/Recognitions/Prize, If any)	Expenditure Incurred		
									Institute Own / Internal Fund (in Rs.)	Sponsorship / External Fund	Total Expenditure Incurred
2016-17	Awareness / Motivational Programs	Entrepreneurship/S startup	How to become an Entrepreneur	EDC Hyderabad	National	Both	100	Certificate provided	15000.00	0.00	15000.00
2017-18	Workshops / Training / Seminars / Conferences	Entrepreneurship/S startup	Entrepreneurship Essentials	SK software pvt Ltd Hyderabad	National	Both	175	Participation certificate provided	25000.00	0.00	25000.00
2017-18	Workshops / Training / Seminars / Conferences	Entrepreneurship/S startup	Entrepreneur Essentials	Spandan Foundations	National	Both	75	Participation certificate provided	25000.00	0.00	25000.00
2017-18	Workshops / Training / Seminars / Conferences	IPR	Methodologies for Generating Revenue through Research with Patents and IPR	Sri Vidyanikethan College of Engineering, Tirupathi.	National	Faculty	12	No	24000.00	0.00	24000.00

Pre-Incubation and Incubation facilities exist in-campus

Total Annual Expenditure Incurred towards Creation of Pre-Incubation and Incubation Facilities in Campus

Financial Year	Name of Centre	Type of Facility	Year of Facility Creation	Facility Location / Address	Facility Incharge Name	Facility area in Sq Ft	Operational Cost of Centre (in Rs.) (Construction Cost is excluded)		
							Institute Own / Internal Fund (in Rs.)	Sponsorship / External Fund	Total Expenditure Incurred
2017-18	Innovation and Incubation Center	Pre-Incubation	2017	Maissmaguda, Secunderabad	Dr. Nikhil Raj	1200	500000.00	0.00	500000.00

Fund supported to convert ideas to Innovations & Start-ups

Total Annual Fund Supported towards Conversion of Ideas to Innovative Solutions and Start-ups at the Institute Level

Financial Year	Category	Name of Idea / Project / Innovation / Startup	Applicant Type	Academic Year of Study	Project Completion	Core Team Size (Nos)	Fund Supported				Current Status (as of 31st March 2018)
							Institution Own Seed Fund	Seed Grant from Funding Agency	Angel / Venture Capital Fund	Total Supported Amount	
2015-16	Idea to PoC / Prototype / Innovation	E-waste Management	Student	Bachelor	On Progress	5	250000.00	0.00	0.00	250000.00	Technology Development/Pre Incubation Phase
2016-17	Idea to PoC / Prototype / Innovation	IOT appln for accident detection in 4 wheeler	Student	Bachelor	Successfully Completed	5	200000.00	0.00	0.00	200000.00	Technology Development/Pre Incubation Phase
2017-18	Idea to PoC / Prototype / Innovation	GoKart	Student	Bachelor	Successfully Completed	26	550000.00	0.00	0.00	550000.00	Technology Development/Pre Incubation Phase

Intellectual Properties Filed

Total Annual Expenditure Spent towards Patent filing of Innovative Technologies with Institute having Ownership

Financial Year	Title of Patent	Patent Application No	Inventors Type	Type of Patent Application Filed	Current Status (as of 31st March 2018)	Amount Spent towards Patent Filing (in Rs.)		
						Institution Own Fund	Sponsorship / Grant Fund	Total Amount Spent towards Patent Filing (in Rs.)
2017-18	INTELLIGENT DISPLAY BOARD AND A SYSTEM TO DISPLAY DATA RECEIVED OVER A NETWORK	201841010055	Faculty	National	Application Published	10000.00	0.00	10000.00
2017-18	Seismic Isolator device for Seismic Protection	201841027780A	Faculty	National	Application Published	6000.00	0.00	6000.00
2017-18	Horizontal Axis, Cam Guided, Telescopic blade, Yaw Controlled Wind Mill	201841033956A	Faculty	National	Provisional/Complete Specification	6000.00	0.00	6000.00
2017-18	System For Smart Nail Polish And Nail Art	201841019563	Faculty	National	Application Published	6000.00	0.00	6000.00
2017-18	Secure Remote Electronic Voting System	201841028063A	Faculty	National	Application Published	10000.00	0.00	10000.00

Innovations Commercialized and IP Licensed

Total Annual Expenditure Incurred and Revenue Generated from IP Commercialization and Licensing at Institute Level (Excluding Consultancy and Testing Services)

Financial Year	Name of the Innovative Technology Commercialized/Transferred	Patent No	Type of Patent	Year of Patent Issued	Conversion of Patent / Innovative Technologies to Commercialization		Total Amount Spent towards Patent Maintenance & Commercialization Expenses (in Rs.) (As of 31st March 2018)		Total Revenue Amount from Commercialization of Technologies (General Consultancy and Testing Services Fee Excluded)	
					Mode of Commercialization	One Time Transfer of Innovation/Technology to Industry/Startup	Institute Own/Internal Fund (in Rs.)	20000.00	Institute Own/Internal Fund (in Rs.)	20000.00
2017-18	INTELLIGENT DISPLAY BOARD AND A SYSTEM TO DISPLAY DATA RECEIVED OVER A NETWORK	201841010055	National	2017	Name of Agency / Org / Industry / Start-up Adopted Technology	MR Ads	Sponsorship / Grant Fund	0.00	Sponsorship / Grant Fund	0.00
							Total Amount Spent towards Patent Maintenance and Commercialization Expenses (in Rs.) as of 31st March 2018	20000.00	Total Amount Spent towards Patent Maintenance and Commercialization Expenses (in Rs.) as of 31st March 2018	20000.00

Grant / Fund Generated / Received by Institute to support Innovation & Start-up

Total Annual Grant / Fund Generated / Received / Mobilized from Govt., Non Govt. and Private Agencies towards Creation of Pre-Incubation and Incubation Infrastructure and Facilities in Campus

Financial Year of Fund Generated	Grant Agency Type	Grant Agency Name	Total Grant Period (in Years)	Total Grant Allocated Amount (in Rs.)	Total Grant Received Amount (in Rs.) (as of 31st March 2018)	Purpose of Grant Utilization (Multiple options can be selected)	Purpose of Grant Utilization (Other)
2017-18	Non-Government	AMC Car Maintenance Company	1.2	200000.00	200000.00	Seed Fund / Investment Support to Innovation/Startups	---
2017-18	Non-Government	MR Ads	0.6	100000.00	100000.00	Technology Transfer / Commercialization	---

Venture Fund / Investment mobilized to support Innovation & Start-up

Total Angel/Venture Fund Mobilized Annually towards Investment Commitment/Support Innovators/Start-ups incubated at Institute

Financial Year	Investor Type	Amount Committed / Lined Up (in Rs.)	Total Number of Successful Investments in Ideas / Innovation / Start-ups	Total Amount Invested
2017-18	Institute / Incubator's Own Investment Fund, if any	50000.00	3	50000.00

Revenue Generated from Incubation Services offered by the Institute

Total Revenue Generated Annually from the Incubation Services offered and Equity/Share hold in Incubatees/Spinoffs

Financial Year of Revenue Generated	Name of the Startup	Startup lead by	Current Phase of Startup	Revenue Generated from Incubation			
				From Rental / Advisory / Training Services (in Rs.)	Equity / Share Percentage (%) in Startup	From Equity/Share held in Startup (in Rs.)	Total Revenue Generated (in Rs.)
2017-18	Knowledge Base	Faculty	Receiving Incubation	125000.00	100	0.00	125000.00
2017-18	Know Mech	Faculty	Receiving Incubation	95000.00	100	0.00	95000.00

Infrastructures & Facilities to Support Innovations and Start-ups

Advanced Infrastructure

Advanced Lab Infrastructure/Facilities available to Support Innovation and Start-Up

Infrastructures & Facilities to Support Innovations and Start-ups
Advanced Infrastructure

No

If Yes, Type of Lab Infrastructures / Facilities Available (Multiple Options can be Selected)
List Maximum Five Advanced Labs Infrastructures Available in your Campus

Name of the Centre	Sector Focus of Centre (Separate Multiple Sectors with Comma ",")	Name of the Centre In charge	Email of the Centre In charge
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Pre Incubation Centre Available in your Campus
Pre-Incubation Centre

Yes

Type of Centre (Multiple options can be selected)

Student Innovation and Entrepreneurship Clubs

List Maximum Five Pre-Incubation Centre Available in your Campus

Name of the Centre	Sector Focus of Centre (Separate Multiple Sectors with Comma ",")	Name of the Centre In charge	Email of the Centre In charge
Innovation and Incubation Center	Engineering	Dr.Nikhil Raj	nikhil_ece@mrce.in

Incubation Unit/Acceleration Centre/ Research Park / STEP
Incubation Unit/Acceleration Centre/ Research Park / STEP Available in your Campus

Yes

Type of Centre (Multiple options can be selected)

Incubation Centre

List Maximum Five Pre-Incubation Centre Available in your Campus

Name of the Centre	Sector Focus of Centre (Separate Multiple Sectors with Comma ",")	Name of the Centre In charge	Email of the Centre In charge
Innovation and Incubation center	Engineering	Dr.Nikhil Raj	nikhil_ece@mrce.in

Student Projects recognized at National / International Level

No of Innovative Student Projects Recognized Nationally/Internationally with Prestigious renowned Agencies/Awards

Financial Year of Award Received	Name of the Award / Program	Awarding Agency Name	Type of Award	Current Status (as of 31st March 2018)	Total Team Size (Student + Faculty)
2016-17	Business plan	FMAE	National	Technology Development/Pre Incubation Phase	26
2017-18	Hackathon	Central Government	National	Dormant Phase/Dropped	5

Innovations to Startups

No of Successful Conversion of Innovations initiated by Students/Alumni/Faculties converted to Enterprise/Start-ups made at Institute

Financial Year	Innovation / Start-Up Name	Founded by	Name of the Co-Founders (Multiple Names can be mentioned with Commas)	Received Incubation	Name of Incubator	Period of Incubation Received (in Years)	Startup with Corporate Identification Number (CIN) Registration	Corporate Identification Number (CIN) No.	Current Startup Status	Startup Grown to an annual turnover of Rs. 50 Lakhs (or) 10 employees for a period of 2 years
2017-18	Medplastics Ecofriendly poly bags	Student	Sumit Sethia	No	---	---	No	---	Self-Supported	No

Co-Incubation Partnership

Co-incubation Partnership made with other Institutions either to offer incubation support (or) to receive incubation support

Financial Year	Type of Partnership	Partnership Institute Name	Type of Support Offered (Multiple Options can be Selected)	No. of Student Projects/ Ideas / Innovation / Startups Supported
2017-18	Incubation Services/Support Extended to Other Institute	MRCEW	Mentoring	4

Courses on Innovation, IPR and Entrepreneurship Development

Short Term Certificate Courses, Regular Academic Programs and Courses offered at Institute on Innovation, IPR and Entrepreneurship Development for Students, Faculties and Start-ups

Academic Year	Title of Course	Subject Focus of Course	Type of Course	Mode of Delivery	Duration of Course / Subject (Minimum 30 Contact Hours)	Total Enrollment for the Course	Total Nos. Completed the Course
2015-16	A Foundation Course	IPR	Bachelor	Classroom	45	100	96
2015-16	Patent Law for Engineers and Scientists	IPR	Bachelor	Classroom	36	75	71
2016-17	What Researchers Need to Know	IPR	Master	Classroom	36	60	60
2016-17	The Entrepreneurial Edge	Innovation and Entrepreneurship Development	Bachelor	Classroom	36	50	50
2016-17	Leveraging network and building team	Innovation and Entrepreneurship Development	Bachelor	Classroom	36	45	45
2016-17	DESIGN THINKING AND INNOVATION WEEK	Design thinking	Bachelor	Classroom	30	30	30
2016-17	Impact of computer based cognitive training on reading skills	Cognitive skill Development	Bachelor	Classroom	30	45	45
2017-18	Developing critical Thinking	Cognitive skill Development	Bachelor	Classroom	36	45	43
2017-18	Building a profitable business model	Innovation and Entrepreneurship Development	Bachelor	Classroom	36	55	54

Faculty with Entrepreneurial Experience

Regular Faculties Engaged in Teaching with Experience in Innovation Design, IPR, Business Modelling, Entrepreneurship Development, Start-up, etc.

Academic Year	Faculty Name	Department	Years of Experience in Start-up / Entrepreneurship	Area of Expertise (Multiple Options can be Selected)	Level of Involvements as	Is Faculty, a Founder/Director of any Start-up	Name of the Start-up (Multiple Startups can be mentioned with Comma)	Director Identification Number (DIN)
2015-16	Dr P John Paul	25	ECE	Business Modelling	Founder	No	---	---
2015-16	Dr Sunil Tekale	15	CSE	Business Modelling	Founder	No	---	---

Faculty with Entrepreneurial Experience

Regular Faculties Engaged in Teaching with Experience in Innovation Design, IPR, Business Modelling, Entrepreneurship Development, Start-up, etc.

2015-16	Dr C Mageswaran	3	MECH	Business Modelling	Founder	No	---	---
2015-16	Rajendra prasad	2	MECH	Business Modelling	Founder	No	---	---
2017-18	Dr Muthu Kumar	5	MBA	Entrepreneurship Development	Mentor	No	---	---

Innovation in Governance

Best Innovative Solutions Developed In-house for Improving Governance of Your Institution

Financial Year	Categories	Title of the Innovation	Brief About Solutions / Approaches Developed and Deployed in Your Institute	Total Project Amount (in Rs.)	Revenue Generated (in Rs.)	Impact created (No. of Direct Beneficiaries/Users)
2016-17	Security and Surveillance	SAFE CAMPUS	In order to make safe campus we have installed various camera at different location in the campus so that we can track every movement of the people visiting the campus . that has helped a lot in order to avoid any security related problems.	200000.00	0.00	2200
2017-18	Water Conservation and Management	SAVE WATER	In order to save every drop of water we have made plans so that we can protect every drop that we receive from the rain. we made ground water pits to collect the water ,which has helped to improve the ground water level.	188000.00	0.00	2200

Responsibility for accuracy and authenticity of data lies with the concerned institution.