



# ARIIA

## ATL 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: MAHENDRA ENGINEERING COLLEGE (AUTONOMOUS) [ARI-C-37054]

### 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	Mahendra Research and Development	Research Unit / Park	All Discipline / Research	UG / PG / PhD	Technical	750	291	114
2	Aeronautical	Academic Department with lab facility	Mechanical/Aeronautical/Mechatronics/Mechanical and Automation/Design and Development	UG / PG / PhD	Technical	78	4	1
3	Aeronautical	Academic Department with lab facility	CATIA V6	UG / PG / PhD	Technical	72	4	1
4	Aeronautical	Academic Department with lab facility	3DX Platform	UG / PG / PhD	Technical	25	2	1
5	Aeronautical	Academic Department with lab facility	DELMIA/Design	UG / PG / PhD	Technical	32	2	1
6	Civil Engineering	Industry Institute Interface Unit	Civil Engineering Department/ Civil / Students	UG / PG / PhD	Both	25	5	2
7	Civil Engineering	Academic Department with lab facility	Ansys / Civil / Students and Faculties	UG / PG / PhD	Technical	35	4	2
8	Civil Engineering	Academic Department with lab facility	Structural Engineering / Civil / Students and Faculties	UG / PG / PhD	Technical	45	4	3
9	Civil Engineering	Academic Department with lab facility	Non Destructive Lab / Civil / Students and Faculties	UG / PG / PhD	Technical	55	7	2
10	Electronics and Communication	Academic Department with lab facility	Embedded Sytem design	UG / PG / PhD	Technical	25	2	2
11	Intel Intelligent systems laboratory	Academic Department with lab facility	Embedded and Automation	UG / PG / PhD	Technical	25	2	1
12	Wipro Mission 10x laboratory	Academic Department with lab facility	DSP applications	UG / PG / PhD	Technical	4	1	1

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

13	Artificial Intelligent - CoE	Academic Department with lab facility	Data analytics	UG / PG / PhD	Technical	7	1	1
14	Artificial Intelligence and Machine Learning	Academic Department with lab facility	IT	UG / PG / PhD	Technical	40	2	1
15	Civil Engineering	Academic Department with lab facility	Formwork Engineering	UG / PG / PhD	Technical	100	15	2
16	Civil	Academic Department with lab facility	Non Destructive	UG / PG / PhD	Technical	85	16	3
17	CSE	Academic Department with lab facility	Artificial Intelligence and Machine Learning	UG / PG / PhD	Technical	120	4	1
18	Mechanical Engineering	Academic Department with lab facility	Anysis	UG / PG / PhD	Technical	100	12	1
19	LAB VIEW	Academic Department with lab facility	Embedded	UG / PG / PhD	Technical	50	2	1
20	MBA Entrepreneurship Development Cell	Academic Department with lab facility	Entrepreneurship Cell	UG / PG / PhD	Technical	150	7	0
21	Mechatronics	Academic Department with lab facility	Product Design	UG / PG / PhD	Technical	120	4	1
22	MANGALA SMART ENERGY SOLUTIONS	Academic Department with lab facility	EEE	UG / PG / PhD	Technical	75	10	2
23	ESCORTS	Academic Department with lab facility	Agriculture	UG / PG / PhD	Technical	25	2	1
24	CATIA V6	Academic Department with lab facility	Mechanical	UG / PG / PhD	Technical	45	2	1
25	CATIA V6	Academic Department with lab facility	Mechanical and Automation	UG / PG / PhD	Technical	10	2	1
26	GA Software	Academic Department with lab facility	CSE	UG / PG / PhD	Technical	35	3	1
27	CSE	Academic Department with lab facility	Mahima Technology	UG / PG / PhD	Technical	35	2	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 : IC201810935

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

Trained Innovation Ambassadors at HEI	YES	Not Required
Participation in Smart India Hackathon (SIH)	Yes	Not Required
Facilitated listing start-ups/ technologies in Young India combating COVID with Knowledge, Technology and Innovation (YUKTI 2.0) portal of MIC	Yes	Not Required
Participation in National Education Alliance of Technology (NEAT)	Yes	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?
1	Formwork Engineering & Concrete	Entrepreneurship/ Startup	Training	Student Lead Activity	Civil Engineering	09-01-2020 00:00:00	23-01-2020 00:00:00	15	Within Campus	35	14	28	5	82	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 75000	No
2	Demonstration of various Formwork systems	Entrepreneurship/ Startup	Workshop	Student Lead Activity	Civil Engineering	03-03-2020 00:00:00	04-03-2020 00:00:00	2	Within Campus	48	10	25	4	87	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 20000	No
3	Novelty in Urban Waste Water Management Strategies	Innovation	Seminar	Student Lead Activity	Civil Engineering	30-01-2020 00:00:00	31-03-2020 00:00:00	62	Within Campus	56	11	52	6	125	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 25000	No
4	SIH 2020	Innovation	Training	Student Lead Activity	Computer Science and Engineering	01-12-2019 00:00:00	02-12-2019 00:00:00	2	Within Campus	35	3	0	0	38	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 15000	No
5	Internal SIH 2020	Innovation	Training	Student Lead Activity	Computer Science and Engineering	21-01-2020 00:00:00	21-01-2020 00:00:00	1	Within Campus	72	3	0	2	77	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 10000	No

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6	Solar PV technology for Power Generation	IPR	Training	Student Lead Activity	Electrical and Electronics Engineering	06-08-2019 00:00:00	10-08-2019 00:00:00	5	Within Campus	94	0	0	0	94	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	25000	No
7	Design and development of transformer	IPR	Workshop	Student Lead Activity	Electrical and Electronics Engineering	16-07-2019 00:00:00	16-07-2019 00:00:00	1	Within Campus	87	30	0	0	117	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
8	Role of Artificial Intelligence in Energy Sectors: Energy Prediction, Grid Balancing; Future of Energy	IPR	Seminar	Student Lead Activity	Electrical and Electronics Engineering	07-11-2019 00:00:00	08-11-2019 00:00:00	2	Within Campus	116	15	20	10	161	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	25000	No
9	Solar PV Fundamentals and Applications	IPR	Seminar	Student Lead Activity	Electrical and Electronics Engineering	09-03-2020 00:00:00	09-03-2020 00:00:00	1	Within Campus	89	10	14	0	113	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
10	Application of PLC in Industrial Automation	Entrepreneurship/Startup	Seminar	Student Lead Activity	Mechanical and Automation	08-07-2019 00:00:00	08-07-2019 00:00:00	1	Within Campus	53	4	0	0	57	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
11	Programming Techniques for Intelligent Automation	IPR, Innovation	Seminar	Student Lead Activity	Mechanical and Automation	09-07-2019 00:00:00	09-07-2019 00:00:00	1	Within Campus	40	3	0	0	43	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
12	Industrial Automation	Innovation	Training	Student Lead Activity	Mechanical and Automation	20-09-2019 00:00:00	20-09-2019 00:00:00	1	Within Campus	60	4	0	0	64	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No

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

13	Industrial Automation	Innovation	Training	Student Lead Activity	Mechanical and Automation	13-08-2019 00:00:00	13-08-2019 00:00:00	1	Within Campus	80	5	0	0	85	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
14	Self Realization for Career Development	Entrepreneurship/Startup	Seminar	Student Lead Activity	Mechanical and Automation	27-08-2019 00:00:00	27-08-2019 00:00:00	1	Within Campus	43	2	0	0	45	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
15	Design Thinking: How to take a product to the market?	Innovation	Seminar	Student Lead Activity	Mechanical and Automation	13-09-2019 00:00:00	13-09-2019 00:00:00	1	Within Campus	93	3	0	0	96	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
16	Arduino Programming using MATLAB	Innovation	Seminar	Student Lead Activity	Mechanical and Automation	18-09-2019 00:00:00	18-09-2019 00:00:00	1	Within Campus	50	5	0	0	55	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
17	Mechanics of Machines	Innovation	Seminar	Student Lead Activity	Mechanical and Automation	02-03-2020 00:00:00	02-03-2020 00:00:00	1	Within Campus	60	5	0	0	65	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
18	Machine Vision and Robotics	Entrepreneurship/Startup	Seminar	Student Lead Activity	Mechanical and Automation	24-01-2020 00:00:00	24-01-2020 00:00:00	1	Within Campus	40	5	0	0	45	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
19	Role of Quality Engineer in product development	Innovation	Seminar	Student Lead Activity	Mechanical and Automation	14-02-2020 00:00:00	14-02-2020 00:00:00	1	Within Campus	46	5	0	0	51	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No

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

20	Lean Manufacturing	Innovation	Workshop	Student Lead Activity	Mechanical and Automation	07-02-2020 00:00:00	07-02-2020 00:00:00	1	Within Campus	60	4	0	0	64	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
21	Additive Manufacturing : Advancing the Future	Innovation	Seminar	Student Lead Activity	Mechanical and Automation	24-01-2020 00:00:00	24-01-2020 00:00:00	1	Within Campus	74	3	0	0	77	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
22	Industrial Automation using IoT with Raspberry pi	Innovation	Training	Student Lead Activity	Mechanical and Automation	06-01-2020 00:00:00	07-01-2020 00:00:00	2	Within Campus	50	4	0	0	54	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
23	Drone Technology	Innovation	Training	Student Lead Activity	Mechanical and Automation	28-01-2020 00:00:00	28-01-2020 00:00:00	1	Within Campus	51	5	0	0	56	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
24	Entrepreneurship Opportunities in Stock Market	Entrepreneurship/Start-up	Seminar	Student Lead Activity	EDC Cell	10-03-2020 00:00:00	10-03-2020 00:00:00	1	Within Campus	110	10	0	0	120	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
25	Entrepreneurship and Internship	Entrepreneurship/Start-up	Seminar	Student Lead Activity	EDC Cell	26-09-2019 00:00:00	26-09-2019 00:00:00	1	Within Campus	65	10	0	0	75	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
26	Importance of Goal Setting, Planning and Execution for Career Development	Entrepreneurship/Start-up	Seminar	Student Lead Activity	EDC Cell	30-10-2019 00:00:00	30-10-2019 00:00:00	1	Within Campus	25	2	0	0	27	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No

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

27	"Business Line club presents Commodity Talk - A Workshop on Commodity Market - Powered by MCX"	Entrepreneurship/Startup	Workshop	Student Lead Activity	EDC Cell	19-12-2019 00:00:00	19-12-2019 00:00:00	1	Within Campus	105	45	0	0	150	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
28	Practical Risk Management in Corporate World	Innovation	Seminar	Student Lead Activity	EDC Cell	23-01-2020 00:00:00	23-01-2020 00:00:00	1	Within Campus	45	5	0	0	50	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
29	Entrepreneurship	Entrepreneurship/Startup	Seminar	Student Lead Activity	EDC Cell	12-03-2020 00:00:00	12-03-2020 00:00:00	1	Within Campus	98	11	0	0	109	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
30	Cleanliness is Next to Godliness (A part of Prime Minister's Swachh Bharat Mission)	Innovation	Seminar	Student Lead Activity	English	20-08-2019 00:00:00	20-08-2019 00:00:00	1	Within Campus	15	7	100	4	126	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
31	DRONICS	Entrepreneurship/Startup	Workshop	Student Lead Activity	Aeronautical Engineering	13-03-2020 00:00:00	13-03-2020 00:00:00	1	Within Campus	54	7	0	0	61	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
32	Recent Trends in Food Industry	Entrepreneurship/Startup	Seminar	Student Lead Activity	Agriculture Engineering	13-03-2020 00:00:00	13-03-2020 00:00:00	1	Within Campus	94	6	0	0	100	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
33	Renewable Energy Applications in Agriculture Engineering	Entrepreneurship/Startup	Seminar	Student Lead Activity	Agriculture Engineering	30-03-2020 00:00:00	30-03-2020 00:00:00	1	Within Campus	55	3	0	0	58	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No

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

34	Internet of Things	Innovation	Training	Institute Lead Activity	National Small Industrial Corporation Limited	25-11-2019 00:00:00	28-12-2019 00:00:00	34	Within Campus	25	1	0	0	26	No	No
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**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	Artificial Intelligence and Machine Learning	Innovation	Training	National Wind Energy Corporation, Chennai	Govt. Agency (Central)	02-12-2019 00:00:00	12-12-2019 00:00:00	11	2	0	2	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	10000	No
2	Intellectual Property Rights , Technology Development and startup	IPR	Workshop	National Institute of Technology, Trichy	Govt. Agency (Central)	09-12-2019 00:00:00	13-12-2019 00:00:00	5	7	1	8	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	5000	No
3	Harita CATIA Short term Training	Innovation	Training	Harita Tech Serv Pvt Ltd, Coimbatore	Non-Govt. Agencies	06-01-2020 00:00:00	10-01-2020 00:00:00	5	5	0	5	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	10000	No
4	World IPR day	IPR	Awareness	IPR cell IIC of Noorul Islam Centre for higher education	Educational Institute	26-03-2020 00:00:00	26-03-2020 00:00:00	1	1	1	2	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	5000	No
5	INTERNET OF THINGS	Innovation	Training	Siemens Center of Excellence	Corporate / Industry Association	18-11-2019 00:00:00	23-11-2019 00:00:00	6	5	1	6	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	8500	No
6	NX Intermediate	Innovation	Training	Siemens Center of Excellence	Corporate / Industry Association	18-11-2019 00:00:00	23-11-2019 00:00:00	6	8	1	9	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	6200	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**

7	Industrial training on Automotive Assembly	Innovation	Training	Harita Tech serv Pvt Ltd Coimbatore	Non-Govt. Agencies	08-11-2019 00:00:00	22-11-2019 00:00:00	15	3	0	3	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	5000	No
8	Internet of Things IoT	Innovation	Training	Live Wire Corporation Salem	Non-Govt. Agencies	18-11-2019 00:00:00	22-11-2019 00:00:00	5	1	0	1	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	4500	No
9	Opportunities for Industry 4.0 applications in Indian Industries	Entrepreneurship/Startup	Workshop	NIT, Trichy	Educational Institute	03-01-2020 00:00:00	04-01-2020 00:00:00	2	3	0	3	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	1500	No
10	WAC Vibrance 2020	Innovation	Start-up Yatra	VIT, Chennai	Educational Institute	11-01-2020 00:00:00	12-01-2020 00:00:00	2	5	0	5	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	1500	No
11	United Arab Emirates (UAE) for Industrial and University Visit	Entrepreneurship/Startup	Exposure visit	UAE	International Agencies	05-02-2020 00:00:00	11-02-2020 00:00:00	7	9	1	10	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	1500	No
12	Hypermesh	Innovation	Training	Sterben Engineering Solution, Bangalore	Non-Govt. Agencies	03-02-2020 00:00:00	08-02-2020 00:00:00	6	4	0	4	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	1000	No
13	Experimental Techniques in Aerospace Engineering (ETAE20) with Indian Society of system for science and Engineering (ISSE), Trichy chapter	Innovation	Workshop	Sastra Deemed University, Tanjavur	Educational Institute	15-02-2020 00:00:00	15-02-2020 00:00:00	1	14	0	14	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	1000	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**

14	Wind Engineering	Innovation	Workshop	VIT-Chennai	Educational Institute	28-02-2020 00:00:00	28-02-2020 00:00:00	1	8	0	8	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	1000	No
15	Think IT Think Salem	Entrepreneurship/Startup	Seminar	CII Salem	Non-Govt. Agencies	05-03-2020 00:00:00	05-03-2020 00:00:00	1	4	0	4	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	1000	No
16	Formwork Engineering Concrete	Entrepreneurship/Startup	Training	L and T center of Excellence	Educational Institute	09-01-2020 00:00:00	23-01-2020 00:00:00	15	85	14	99	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	5000	No
17	IIC Ambassador Programme	IPR	Orientation Session	MHRD IIC Cell	Govt. Agency (Central)	06-01-2020 00:00:00	07-01-2020 00:00:00	2	0	1	1	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	2500	No
18	IIC Ambassador Programme	Entrepreneurship/Startup	Orientation Session	MHRD IIC Cell	Govt. Agency (Central)	06-01-2020 00:00:00	07-01-2020 00:00:00	2	0	1	1	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	2500	No
19	IIC Ambassador Programme	Innovation	Orientation Session	IIC Cell MHRD	Govt. Agency (Central)	06-01-2020 00:00:00	07-01-2020 00:00:00	2	0	2	2	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	2500	No
20	Intellectual Property Rights (IPR)	Entrepreneurship/Startup	Seminar	Mahendra Engineering College	Educational Institute	24-08-2019 00:00:00	24-08-2019 00:00:00	1	95	15	110	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	10000	No
21	Elegant Way to Acquire Intellectual Property Rights (IPR)	Entrepreneurship/Startup	Seminar	Mahendra Engineering College	Educational Institute	27-09-2019 00:00:00	27-09-2019 00:00:00	1	85	10	95	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	7000	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**

22	One day awareness program on Entrepreneurship	Entrepreneurship/Startup	Workshop	Mahendra Engineering College	Educational Institute	10-04-2019 00:00:00	10-04-2019 00:00:00	1	92	8	100	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	8500	No
23	Employability Skills	Entrepreneurship/Startup	Workshop	Mahendra Engineering College	Educational Institute	23-04-2019 00:00:00	23-04-2019 00:00:00	1	75	10	85	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	6500	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	Introduction to AUTODESK Fusion 360	Innovation	Short term Course	Short Term Certificate Course	Mechanical	19-07-2019	07-02-2020	204	Offline	20	45
2	TVS Hariitha CATIA	Innovation	Short term Course	Short Term Certificate Course	Mechanical	16-08-2019	27-02-2020	196	Offline	25	75
3	Artificial Intelligence and Machine Learning	Innovation	Elective/Core Credit Course	Credit Course (Elective)	EEE	06-06-2019	02-11-2019	150	Offline	1	45
4	Biomedical Instrumentation	Innovation	Elective/Core Credit Course	Credit Course (Elective)	EEE	18-11-2019	15-03-2020	119	Offline	28	45
5	Intelligent Controllers	Innovation	Elective/Core Credit Course	Credit Course (Elective)	EEE	06-06-2019	02-11-2019	150	Offline	6	45
6	Internet of Things	Innovation	Elective/Core Credit Course	Credit Course (Elective)	EEE	18-11-2019	15-03-2020	119	Offline	40	45
7	Computer hardware and interfacing	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Electronics and Communication	18-11-2019	15-03-2020	119	Offline	33	45
8	Research Methodology and IPR	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Communication Systems	20-08-2019	15-12-2019	118	Offline	10	45
9	Non Destructive Testing and Evaluation	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Aeronautical Engineering	16-12-2019	16-03-2020	92	Offline	47	45
10	Formwork Engineering	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Civil Engineering	27-08-2019	19-11-2019	85	Offline	30	45
11	Green Building Technologies	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Civil Engineering	16-09-2019	23-12-2019	99	Offline	30	45
12	Industrial Automation	Innovation	Short term Course	Short Term Certificate Course	Mechanical and Automation	29-07-2019	01-08-2019	4	Offline	60	30
13	Drone Technology	Innovation	Short term Course	Short Term Certificate Course	Mechanical and Automation	28-01-2020	31-01-2020	4	Offline	51	30

14	Product Development	Entrepreneurship/Startup	Short term Course	Short Term Certificate Course	MBA	06-06-2020	10-06-2020	5	Offline	40	45
15	Advanced Industrial Automation on PLC	Innovation	Short term Course	Short Term Certificate Course	Mechatronics	29-07-2019	02-08-2019	5	Offline	34	45
16	PLC SCADA HMI and VFD	Innovation	Short term Course	Short Term Certificate Course	Mechatronics	11-02-2020	14-02-2020	4	Offline	30	30
17	Lab View	Innovation	Short term Course	Short Term Certificate Course	EEE	19-04-2019	13-02-2020	301	Offline	72	80
18	Danfoss	Innovation	Short term Course	Short Term Certificate Course	Mechanical	18-11-2019	31-12-2019	44	Offline	125	60
19	3DX Platform	Innovation	Short term Course	Short Term Certificate Course	Aeronautical	09-09-2019	09-11-2020	428	Offline	35	45
20	Finite Element Modelling	Innovation	Short term Course	Short Term Certificate Course	Mechanical	05-08-2019	21-10-2019	78	Offline	55	45
21	Advanced Concrete Technology	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Civil	22-07-2019	05-10-2020	442	Offline	45	50
22	Solar PV Tech for Power Generation	Innovation	Short term Course	Short Term Certificate Course	EEE	06-08-2019	10-10-2019	66	Offline	50	40
23	Green Energy technology	Innovation	Short term Course	Short Term Certificate Course	EEE	21-01-2020	25-01-2020	5	Offline	40	30
24	NX Tool	Innovation	Short term Course	Short Term Certificate Course	Aeronautical	19-08-2019	30-08-2019	12	Offline	30	50
25	Non Destructive Tools	Innovation	Short term Course	Short Term Certificate Course	Civil	20-01-2020	09-03-2020	50	Offline	25	45
26	Internet of Things	Innovation	Short term Course	Short Term Certificate Course	MCA	25-11-2019	28-12-2019	34	Offline	25	45

**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)**

Srno	Title of the Training Program	Program Theme	Type of Course	Course Offering Department/Centre/ Unit Name	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	Formwork Engineering	Innovation	Employment Generation Training Programs	Civil	19-06-2019	16-03-2020	272	Offline	35	120
2	CATIA Training Employability Skill	Innovation	Employment Generation Training Programs	Aeronautical	28-06-2019	28-02-2020	246	Offline	75	120
3	Artificial Intelligence and Machine Learning	Innovation	Employment Generation Training Programs	Computer Science and Engineering	01-07-2019	13-03-2020	257	Offline	40	120
4	Technical Employability Training	Innovation	Employment Generation Training Programs	Placement Cell	15-07-2019	27-02-2020	228	Offline	120	150
5	Lab View	Innovation	Employment Generation Training Programs	Electrical and Electronics Engineering	15-07-2019	05-03-2020	235	Offline	70	120
6	ANSYS	Innovation	Employment Generation Training Programs	Mechanical	05-08-2019	11-03-2020	220	Offline	100	60

7	Formwork Engineering	Entrepreneurship/Startup	Employment Generation Training Programs	Civil	13-05-2020	16-05-2020	4	Online	45	30
8	Entrepreneur Development	Entrepreneurship/Startup	Employment Generation Training Programs	MBA	12-08-2019	14-10-2019	64	Offline	85	60
9	Coding Skill	Entrepreneurship/Startup	Employment Generation Training Programs	Placement Training Division	06-01-2020	10-02-2020	36	Offline	130	60
10	Design thinking	Entrepreneurship/Startup, Innovation	Employment Generation Training Programs	IIC	07-01-2019	11-03-2019	64	Offline	50	30
11	Product Development	IPR, Entrepreneurship/Startup, Innovation	Employment Generation Training Programs	IIC	22-07-2019	16-09-2019	57	Offline	65	30
12	Startup and Innovation	IPR, Entrepreneurship/Startup, Innovation	Employment Generation Training Programs	IIC	05-08-2019	16-09-2019	43	Offline	65	30
13	Entrepreneurship Development	Entrepreneurship/Startup	Employment Generation Training Programs	IIC	19-08-2019	21-10-2019	64	Offline	45	30

**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	Dr.K.Vidhya	Civil	Professor	Yes	No			
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)
2	Dr.C.Dhavamani	Aeronautical	Professor	Yes	No			
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)
3	Dr.T.Jesudas	Mechatronics	Professor	Yes	No			
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)
4	Dr.S.Asokkumar	MBA	Professor	Yes	No			
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)

**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	Artificial Intelligence	Innovation Club	2019	Work Stations	Centre of Excellence with Advance Tools	4	Madde Pavan Kumar	pavan.madde98@gmail.com	8639688856
2	Embedded System	Innovation Club	2016	Work Stations	Centre of Excellence with Advance Tools	5	Karthikeyan. S	karthikeyans3071@gmail.com	8608908063
3	Artificial Intelligence	Innovation Club	2019	Work Stations	Centre of Excellence with Advance Tools	2	Dineshkumar D	dineshkumardine3@gmail.com	9500432658
4	AEROSPACE BOOSTER CLUB	Innovation Club	2018	Work Stations	Innovation Labs	12	K.S Santhosh	santhoshks@gmail.com	9443099759
5	DESIGNER CLUB	Innovation Club	2018	Work Stations	Innovation Labs	12	KARIKALAN C	karikalan696@gmail.com	8940794868
6	EXECUTIVE CLUB	Innovation Club	2018	Work Stations	Innovation Labs	12	NANDHA P	pnandha2001@gmail.com	9787682396
7	L and T Club	Innovation Club	2018	Work Stations	Innovation Labs, Centre of Excellence with Advance Tools	14	R.THAMARI SELVAN	thamarai2896@gmail.com	7502288089
8	Formwork Engineering Club	Innovation Club	2018	Work Stations	Centre of Excellence with Advance Tools	5	Er.M.SAIRAM KARTHIC	cmsk@intecc.com	7339288647
9	Mech Club	Innovation Club	2019	Work Stations	Centre of Excellence with Advance Tools	5	RIYASUDEEN A	riyasudeen78666@gmail.com	9944437778
10	Non Destructive Testing Club	Innovation Club	2018	Work Stations	Innovation Labs	5	PadmaPriya	padmapriyas007@gmail.com	9952851607
11	Sof Skill Club	Innovation Club	2018	Work Stations	Centre of Excellence with Advance Tools	6	Sambrin	shamreen2727@gmail.com	7539907750
12	Communication Club	Innovation Club	2019	Co-working Space, Work Stations	Innovation Labs	7	Anshand	anshadap111@gmail.com	7356789678
13	Solar Club	Innovation Club	2019	Work Stations	Innovation Labs	5	JayaSurya	jsurya9787@gmail.com	9585934307
14	Energy Cub	Innovation Club	2019	Work Stations	Innovation Labs	6	A.Jothi Lakshmi	joarthi16@gmail.com	9894656319
15	Water and Soil Conservation	Innovation Club	2018	Work Stations	Innovation Labs	6	P.Deepak Raj	deepakpalani2712200@gmail.com	6369102099
16	Bio renewal Energy Club	Innovation Club	2019	Work Stations	Innovation Labs	7	M.Krishan kumar	krishnakumar2812200@gmail.com	6369377230
17	New Product Development	Innovation Club	2018	Work Stations	Innovation Labs	9	P.Surya	surya.02.cpl@gmail.com	9788006616
18	INdustry 4	Innovation Club	2019	Work Stations	Innovation Labs	7	R.Pavithra	pavitharajendran1319@gmail.com	7448367519

**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 on 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				
1	Mahendra technology incubation Centre	Innovation Centre	2017	Work Stations	Innovation Labs, Centre of Excellence with Advance Tools, Student Clubs	Innovation Labs, Centre of Excellence with Advance Tools, Student Clubs	Facility Incharge Name	Dr.N.Vi swanathan	75	Yes	No	Yes
							Facility Incharge Email	hodece @mahendra.info				
							Facility Incharge Phone	908055 5835				
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						Mahendra Educational trust			Educational Institute		2500000	

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

Srno	Name of CoE Facility	Year of Establishment	CoE with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with CoE, if any (Optional)	Facility Details		Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the CoE 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 CoE Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of CoE Centre/Facilities?
					Facility Incharge Name	Facility Incharge Email				
1	Formwork Engineering	2018	Innovation Labs	Mahendra Educational Trust	Facility Incharge Name	Dr.K.Vidhya	3	No	Yes	Yes
					Facility Incharge Email	hodcivi l@mahendra.info			Total Annual Income from Training and Skill Development Services (In Rupees)	
					Facility Incharge Phone	98420 22047			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	
									Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	

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

Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)			
2	Product Design and Development	2013	Innovation Labs	Facility Incharge Name	Dr.C.D havamani	5	No	Yes		Yes
				Facility Incharge Email	hodaer o@mahendra.info			Total Annual Income from Training and Skill Development Services (In Rupees)		
				Facility Incharge Phone	94430 99759			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)		
								Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)		
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)			
3	Artificial Intelligence and Machine Learning	2019	Innovation Labs	Facility Incharge Name	Dr.M.K annan	6	No	No		Yes
				Facility Incharge Email	hodcse @mahendra.info					
				Facility Incharge Phone	98431 32476					
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)			
4	Lab View Academy	2011	Innovation Labs	Facility Incharge Name	Dr.S.U mama heswari	3	No	No		Yes
				Facility Incharge Email	hodee e@mahendra.info					
				Facility Incharge Phone	88255 69692					



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

Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)															
5	Ansys	2018	Innovation Labs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.P.S aravan an</td> </tr> <tr> <td>Facility Incharge Email</td> <td>hodme ch@m ahendr a.info</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>99943 89829</td> </tr> </table>	Facility Incharge Name	Dr.P.S aravan an	Facility Incharge Email	hodme ch@m ahendr a.info	Facility Incharge Phone	99943 89829	4	No	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td></td> </tr> <tr> <td>Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)</td> <td></td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td></td> </tr> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)		Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)		Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)		Yes
Facility Incharge Name	Dr.P.S aravan an																					
Facility Incharge Email	hodme ch@m ahendr a.info																					
Facility Incharge Phone	99943 89829																					
Yes																						
Total Annual Income from Training and Skill Development Services (In Rupees)																						
Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)																						
Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)																						
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)															

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

Srno	Name of Incubation Facility	Year of Establishment	Incubation with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with Incubation Unit, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Incubation Facility 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 Incubation Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Incubation Centre/Facilities?						
1	Mahendra Technology Business Incubation	2017	Innovation Labs, Student Clubs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.N.Vi swanath an</td> </tr> <tr> <td>Facility Incharge Email</td> <td>hodec e@m ahendr a.info</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>90805 55835</td> </tr> </table>	Facility Incharge Name	Dr.N.Vi swanath an	Facility Incharge Email	hodec e@m ahendr a.info	Facility Incharge Phone	90805 55835	5	No	No	Yes
Facility Incharge Name	Dr.N.Vi swanath an														
Facility Incharge Email	hodec e@m ahendr a.info														
Facility Incharge Phone	90805 55835														
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)								

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

Srno	Name of Innovation Park/Research Park Facility	Year of Establishment	Innovation Park / Research Park with Access to Other I & E Facilities at the HEI	Name of the Funding Schemes Available with Research/Innovation Park, if any (Optional)	Facility Details		Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Research Park/Innovation Park 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 Research Park/Innovation Park?		Had the Research Park/Innovation Park Provided any Funding Support for Idea/Prototype/Innovation/Start up/Venture Development and implementation during the Financial Year 2019-20?
					Facility Incharge Name	Facility Incharge Email			Facility Incharge Phone	Yes	
1	Civil Engineering	2017	Innovation Labs		Facility Incharge Name	Dr.K.Vidhya	5	No	Yes		Yes
					Facility Incharge Email	hodcivil@mahendra.info			Total Annual Income from Training and Skill Development Services (In Rupees)		
					Facility Incharge Phone	9842022047			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)		
									Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)		
Source of Grant / Fund				Agency Name				Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)	
-				-				-		0	
2	Mechanical Engineering	2015	Innovation Labs		Facility Incharge Name	Dr.P.Saravanan	7	No	Yes		Yes
					Facility Incharge Email	hodmech@mahendra.info			Total Annual Income from Training and Skill Development Services (In Rupees)		
					Facility Incharge Phone	994389829			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)		
									Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)		

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

Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)				
-		-		-		0				
3	Electronica and Communication	2010	Innovation Labs	Facility Incharge Name	Dr.N.Vi swanathan	7	No	Yes		Yes
				Facility Incharge Email	hodece@mahendra.info			Total Annual Income from Training and Skill Development Services (In Rupees)		
				Facility Incharge Phone	9080555835			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)		
								Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)		
Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)				
-		-		-		0				
4	Computer Science and Engineering	2011	Innovation Labs	Facility Incharge Name	Dr.M.k annan	4	No	Yes		Yes
				Facility Incharge Email	hodcse@mahendra.info			Total Annual Income from Training and Skill Development Services (In Rupees)		
				Facility Incharge Phone	9843132476			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)		
								Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)		

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

Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)																
-		-		-		0																
5	Electrical and Electronics Engineering	2011	Innovation Labs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.S.U mama heswar i</td> </tr> <tr> <td>Facility Incharge Email</td> <td>hodee e@ma hendr.i nfo</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>88255 69692</td> </tr> </table>	Facility Incharge Name	Dr.S.U mama heswar i	Facility Incharge Email	hodee e@ma hendr.i nfo	Facility Incharge Phone	88255 69692	5	No	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td></td> </tr> <tr> <td>Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)</td> <td></td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td></td> </tr> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)		Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)		Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)		Yes
Facility Incharge Name	Dr.S.U mama heswar i																					
Facility Incharge Email	hodee e@ma hendr.i nfo																					
Facility Incharge Phone	88255 69692																					
Yes																						
Total Annual Income from Training and Skill Development Services (In Rupees)																						
Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)																						
Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)																						
Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)																

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

Srno	Name of IPR Cell/Technology Transfer Centre Facility	Year of Establishment	IPR Cell/Technology Transfer Centre with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with IPR Cell/Technology Transfer Centre, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the IPR Cell/Technology Transfer Centre 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 IPR Cell/Technology Transfer Centre?	Had the IPR Cell/Technology Transfer Centre Provided any Funding Support for Idea/Prototype/Innovation/Start up/Venture Development and implementation during the Financial Year 2019-20?						
1	Mehendra IPR Cell	2014	Innovation Labs, Student Clubs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.S.A sokumar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>hodmb a@ma hendra .info</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>97500 65747</td> </tr> </table>	Facility Incharge Name	Dr.S.A sokumar	Facility Incharge Email	hodmb a@ma hendra .info	Facility Incharge Phone	97500 65747	3	No	No	Yes
Facility Incharge Name	Dr.S.A sokumar														
Facility Incharge Email	hodmb a@ma hendra .info														
Facility Incharge Phone	97500 65747														
Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)									

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

Srno	Name of the Faculty	Designation of the Faculty	Mentor Expert Area	Years of Experience in Mentorship (In Years)
1	Dr.K.Vidhya	Professor	Idea/Innovation Development, IPR Protection & Commercialization	4
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	IPR and Innovation		Within	
2	Dr.C.Dhavamani	Professor	Idea/Innovation Development, Entrepreneurship/Startup Development	4
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Preincubation		Within	
3	Dr.T.Jesudas	Professor	Idea/Innovation Development	4
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Product Development		Within	
4	Dr.S.Asokkumar	Professor	Entrepreneurship/Startup Development	4
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Entrepreneurship		Within	

**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
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1	Design and Fabrication of Eco Friendly Tiles Machine	Product Innovation	Technological		Faculty	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	Innovation Development Ongoing	Agency Name	MSME	No	Grant Amount in Rs	300000	No	No
									Agency Type	Govt. Agency (Central)					
									Award / Position / Recognition Secured	300000					

Name	Type	Gender	Email	Contact
Dr.K.Vidhya	Faculty	Female	hodcivil@mahendra.info	8870844332

2	Well Equipped Portable and Odorless Biogas Plant in Aerobic Process	Process Innovation	Technological		Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	Agency Name	MSME	No	Grant Amount in Rs	250000	No	No
									Agency Type	Govt. Agency (Central)					
									Award / Position / Recognition Secured	250000					

Name	Type	Gender	Email	Contact
Mr.Rahul Suvaman	Student	Male	rahulsaravanan@gmail.com	9944850012

3	Development of Laccase Enzyme Based Water Purifier and Detergent Enhancer.	Process Innovation	Technological		Faculty	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	Innovation Development Ongoing	Agency Name MSME	Agency Type Govt. Agency (Central)	Award / Position / Recognition Secured 550000	No	Grant Amount in Rs 550000	No	No
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Name	Type	Gender	Email	Contact
Mr.P.Thiyagarajan	Faculty	Male	hodbiomed@mahendra.org	9443470394

4	Design and Fabrication of Sew Seed Dibbler	Product Innovation	Technological		Student	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	Agency Name MSME	Agency Type Govt. Agency (Central)	Award / Position / Recognition Secured 300000	No	Grant Amount in Rs 250000	No	No
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Name	Type	Gender	Email	Contact
Mr K Gunaseelan	Student	Male	gunaseelankumaresan@gmail.com	8754774780

5	Miniature Scale Industrial Ash Aggregate Plant	Product Innovation	Technological		Faculty	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	Innovation Development Ongoing	Agency Name	MSME	No	Grant Amount in Rs	300000	No	No
									Agency Type	Govt. Agency (Central)					
									Award / Position / Recognition Secured	300000					

Name	Type	Gender	Email	Contact
Dr.K.Vidhya	Faculty	Female	hodcivil@mahendra.info	8870844332

6	Physio Fast Heal Assistive Technology	Product Innovation	Technological		Faculty	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	Innovation Development Ongoing	Agency Name	MSME	No	Grant Amount in Rs	450000	No	No
									Agency Type	Govt. Agency (Central)					
									Award / Position / Recognition Secured	450000					

Name	Type	Gender	Email	Contact
Dr.Andrews	Faculty	Male	andrewsmalacca@gmail.com	8903920542



7	Design and Fabrication of Automatic Poultry Feeder	Process Innovation	Technological		Faculty	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	200000	No	No						
										<table border="1"> <tr> <td>Agency Name</td> <td>MSME</td> </tr> <tr> <td>Agency Type</td> <td>Govt. Agency (Central)</td> </tr> <tr> <td>Award / Position / Recognition Secured</td> <td>200000</td> </tr> </table>		Agency Name	MSME	Agency Type	Govt. Agency (Central)	Award / Position / Recognition Secured	200000		
Agency Name	MSME																		
Agency Type	Govt. Agency (Central)																		
Award / Position / Recognition Secured	200000																		

Name	Type	Gender	Email	Contact
Dr.C.Dhavamani	Faculty	Female	hodaero@mahendra.info	9443099759

Name	Type	Gender	Email	Contact
-	Faculty	-	-	-

8	Design and implementation of finger print based intelligent ATM	Product Innovation	Technological		Student-Faculty	TRL 2 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Technology formulation . Concept and application have been formulated.	Innovation Development Dropped	No	No	10000	No	No
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Name	Type	Gender	Email	Contact
S.Sumathi	Faculty	Female	sumathis@mahendra.info	9443745077

9	Solar Powered Automated Irrigation System for Plants in Highways Divider	Product Innovation	Technological		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	15000	No	No
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Name		Type				Gender		Email		Contact		
Dr.T.Jesudas		Faculty				Male		hodmctrs@mahendra.info		8344805538		
10	Development of Laser Engraving Machine	Product Innovation	Technological		Student-Faculty	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Ongoing	No	No	Grant Amount in Rs 25000	No
	Name		Type				Gender		Email		Contact	
	Mr.J.DineshKumar		Faculty				Male		dineshkumars@mahendra.info		978814446	
11	Miniature Pick and Place Robot for Material Handling	Product Innovation	Technological		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	Yes	Grant Amount in Rs 25000	No
	Name		Type				Gender		Email		Contact	
	Mr.D.Prabhakaran		Faculty and Student				Male		prabhakard@mahendra.info		9894890621	
	Name		Type				Gender		Email		Contact	
-		Faculty				Male		-		-		

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

Srno	Name of the Venture/Startup/SME Unit Established with the Support of HEI	Type of Innovation of Venture/Startup/SME Unit	Nature of Innovation	Name of the Pre-Incubation/Incubation Unit of HEI Supported Innovation Development	Venture Founded by	Venture Registered as	Year of Registration	What is the current status of Pre-Incubation/Incubation Support to Venture/Startup/SME Unit as on 31st March 2020?	Had the Venture Received any Recognition at State, National, International Level Programs 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 Venture establishment during the financial period 2019-20	Had the venture/startup 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 venture/startup for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2019-20	Has the Startup Grown to a stage of Employment Generation to 10 Numbers or an annual Turnover to Rs. 50 Lakhs during the financial year 2019-20
1	Khabai Tech	Service Innovation	Technological	5652	Student	Venture with Corporate Identification Number (CIN) Registration	2019-20	Graduated from the Incubation unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact			
Prince Chawan		10ecep33216r1zg		Student		Male		ceo@khabaitech.com		9955871746			

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

Srno	Collaborated Agency Name	Collaborated Agency Type	Purpose of Collaboration	Type of Support Offered	No. of Student Projects/ Ideas / Innovation / Startups from the HEI get benefitted through this partnership	Date of MOU / Agreement Signed on
1	Mahima Technology Pvt limited	Non-Govt. Agencies	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	45	07-01-2019
2	GA Software	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	55	12-02-2019
3	Next Wealth Pvt Limited	Non-Govt. Agencies	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	65	17-02-2020
4	MMU - Multi Media University Mylasia	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	35	16-12-2019

5	Barola Aero technologies	Non-Govt. Agencies	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	40	15-07-2019
6	Dimensions Structural Design	Non-Govt. Agencies	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	15	25-07-2019
7	Pumo Technovation India Pvt Ltd, Coimbatore	Non-Govt. Agencies	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	25	09-01-2020

### 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

Srno	Title/Name of Patent	IP Registration Number	Date of Filed/Published (Year, Month)	Application Level	Copy of receipt / application screenshot [PDF or Image]
1	SPT - Mobile Banking: Secured payment transfer using Mobile Banking	202041012631	National	2020 - 03	NA

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

Srno	Title/Name of IP	Type of IP	IP Registration Number	Current Status of IP as on 31st March 2020	Copy of IP screenshot
1	Fabrication and Testing methods of strain measuring Instruments for	PatentsHoldByInnovations	6113/CHE/2015	Published	NA
	K.Vidhya	Incubatee Innovator	K.Vidhya		
2	Automatic Braeking system in Automobiles	PatentsHoldByInnovations	201941020280	Published	Uploaded
	Prof.Dhavamani C	Incubatee Innovator	C.Dhavamani		
3	Quick-wotted cloth cradle for newborn babies to reduce sleep disorders	PatentsHoldByInnovations	202041017580	Published	Uploaded
	S.sumathi	Incubatee Startup	Sumathi		
4	EMERGENCY VEHICLE WARNING SYSTEM AND METHOD FOR TRAFFIC DECONGESTION AT INTERSECTIONS	PatentsHoldByInnovations	201941053565	Published	NA
	T.Jesudas	Incubatee Innovator	T.Jesudas		
5	Transmission power and frequency based network selection scheme for minimizing the harmful radiation from GSM mobiles	PatentsHoldByInnovations	202041035556	Published	NA

	Applicant Name		Applicant Type		Start-up/Innovator Name	
	C.T.sivakumar		Incubatee Innovator		Sivakumat.C.T	
6	Method for Estimation of Occurrence of a Cyber security Incident using a Probability Model	PatentsHoldByInnovations	202041006697A	Published	NA	
	Applicant Name		Applicant Type		Start-up/Innovator Name	
	M.Kannan		Incubatee Innovator		Neelamadeswari	

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

**No Data Filled!**

**List the patent Published & Granted to HEI**

Srno	Title / Name of Patent	Type of IP	Publication / Granted Number	Publication / Granted Year	Status	Remarks
1	Secure and Reliable Smart E-Voting System Using AADHAD Card	Published	201941018956	2019	Approved	
2	Industrial Induction Heater Power Converting System and a Method Thereof	Published	2019941003361	2019	Approved	
3	Method for Speech Processing Using Binary Matrix Factorization Based Features	Published	201941049245A	2019	Approved	
4	Geofence Based Border Limiting System	Published	201941033492	2019	Approved	
5	Neural Network Based Optimization Method for Injection Molding Manufacturing	Published	201941024047 A	2019	Approved	
6	INTELLIGENT CONTROL SYSTEM FOR VEHICLES	Published	20192102080	2019	Approved	

## 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. R.V.Mahendra Gowda (Head of Institute) and Dr. C.Dhavamani (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. R.V.Mahendra Gowda  
Head of the Institution,  
Namakkal-637503 TAMIL NADU , Tamil Nadu

Nodal officer



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Dr. C.Dhavamani  
Nodal Officer,  
Namakkal-637503 TAMIL NADU , Tamil Nadu