

## Section 1: Policy And Institutionalization Of I&E Activities In HEIs (Academic Calendar Year 2020-21 & 2021-22)

### 1.1) Adoption Level of Innovation and Entrepreneurship (I&E) Policy in HEIs: Registration; Policy Formulation; Policy Implementation

Completion of Action Items (status as on 16th October 2022)	Status
Registered in the NISP portal for I&E Policy Adoption	Yes
Institute has Formulated an Innovation and Entrepreneurship (I&E) Policy	No
Institute has Action Plans for Implementation of the I&E Policy	No

**Contact:**

Faculty Name:	Dr. Nataraj K R
Designation:	Dean & Director, R&D
Email ID:	director.research@dbit.co.in
Mobile No.	9916065415

### 1.2) Performance Level of Institution's Innovation Councils (IICs) Established in HEIs: Scores and Stars Obtained

Annual Performances of IIC Institute	Stars Secured
IIC 1.0 (2018-19)	
IIC 2.0 (2019-20)	1
IIC 3.0 (2020-21)	4
IIC 4.0 (2021-22)	0 ( On Progress )

**Contact:**

IIC President of the Institute:	DR NATARAJ K R
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Designation:	DEAN AND DIRECTORPROFESSOR
Email ID:	director.research@dbit.co.in
Mobile No.	9916065415



### 1.3) Activeness of Trained Innovation Ambassadors in Driving Campus I&E Ecosystems in HEIs: Trained IA/HEI and Nos of Prescribed Activities undertaken by IA

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
1	Dr.Nataraj K R	Advance	0
2	Dr.Rengaprabhu P	Advance	0
3	sheela s	Basic	0
4	Dr. Manjunathswamy B E	Advance	1
5	Dr. Shivakumar Dalali	Basic	0
6	Dr. Anasuya N J	Advance	2
7	Dr. Nataraj K R	Advance	0
8	Dr. Somaraya B Tallolli	Advance	0
9	Dr. Rajashekargouda C Patil	Advance	0
10	Gobinath S	Advance	1
11	Rekha S	Basic	1
12	Dr Akshath M J	Basic	0
13	Pradeep Jagannath	Basic	0
14	Vishesh J	Basic	1
15	Dr Manu K S	Basic	1
16	Savitha A L	Basic	0
17	Mrs. Sowjanya C M	Basic	1
18	chaithra g v	Basic	1
19	DIVYA SHREE G	Basic	1

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
20	Dr. Arun	Basic	0

#### 1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-1258	Yes
HEI Participated in the Smart India Hackathon (2022)	C-1258	Yes

## Section 2: Teaching and Learning: Academic Programs related to Innovation and Entrepreneurship (I&E) Offered by the HEI

#### 2.1) Academic Courses in Innovation, Entrepreneurship and IPR

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St D
1	Artificial Intelligence and Machine Learning	21CS54	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	01 20 00
2	Angular JS and Node JS	21CSL581	2021-22	Core Course	Bachelor	Computer Science and Engineering	1	01 20 00
3	Software Engineering and Project Management	21CS61	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	01 20 00
4	Agile Technologies	21CS641	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	10 20 00
5	Data Science and Visualization	21CS644	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	23 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
6	Big Data Analytics	21CS71	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	10 20 00
7	BlockChain Technology	21CS734	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	05 20 00
8	Internet of Things	21CS735	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	03 20 00
9	Deep Learning	21CS743	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	10 20 00
10	ROMOTIC PROCESS AUTOMATION DESIGN AND DEVELOPMENT	21CS744	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	15 20 00
11	Programming in Python	21CS751	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	01 20 00
12	Introduction to AI and ML	21CS752	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	01 20 00
13	Introduction to Data Science	21CS754	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	01 20 00
14	Introduction to Cyber Security	21CS653	2021-22	Core Course	Bachelor	Information Science and Technology	3	01 20 00
15	Software Testing Laboratory	21ISL66	2021-22	Core Course	Bachelor	Information Science and Engineering	1	05 20 00
16	Cloud Computing	21CS72	2021-22	Core Course	Bachelor	Information Science and Engineering	2	15 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St D
17	User Interface Design	21IS733	2021-22	Core Course	Bachelor	Information Science and Engineering	3	01 20 00
18	NOSQL Database	21CS745	2021-22	Core Course	Bachelor	Information Science and Engineering	3	15 20 00
19	Introduction to Big Data	21CS753	2021-22	Core Course	Bachelor	Information Science and Engineering	3	08 20 00
20	Machine Drawing and GD and T	21MEL35	2021-22	Core Course	Bachelor	Mechanical Engineering	1	01 20 00
21	Theory of Machines	21ME51	2021-22	Core Course	Bachelor	Mechanical Engineering	3	01 20 00
22	Modern Mobility and Automotive Mechanics	21ME54	2021-22	Core Course	Bachelor	Mechanical Engineering	3	01 20 00
23	Machine Design	21ME63	2021-22	Core Course	Bachelor	Mechanical Engineering	3	05 20 00
24	Supply Chain Management and Introduction to SAP	21ME641	2021-22	Core Course	Bachelor	Mechanical and Engineering	3	01 20 00
25	Mechatronics System Design	21ME642	2021-22	Core Course	Bachelor	Mechanical Engineering	3	10 20 00
26	Autonomous Vehicles	21ME643	2021-22	Core Course	Bachelor	Mechanical Engineering	3	01 20 00
27	Economics for Engineers	21ME644	2021-22	Core Course	Bachelor	Mechanical Engineers	3	10 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Ds
28	Renewable Energy Power Plants (OPEN Elective)	21ME652	2021-22	Elective Course	Bachelor	Mechanical Engineering	2	01 20 00
29	Modern Mobility	21ME654	2021-22	Core Course	Bachelor	Mechanical Engineering	3	05 20 00
30	CNC Programming and 3-D Printing Lab	21MEL66	2021-22	Core Course	Bachelor	Mechanical Engineering	1	01 20 00
31	Automation and Robotics	21ME71	2021-22	Core Course	Bachelor	Mechanical Engineering	3	01 20 00
32	Design for Manufacturing and Assembly	21ME735	2021-22	Core Course	Bachelor	Mechanical Engineering	3	01 20 00
33	Theory and Design of IC Engines	21ME742	2021-22	Elective Course	Bachelor	Mechanical Engineering	3	01 20 00
34	Product Design and Ergonomics	21ME744	2021-22	Elective Course	Bachelor	Mechanical Engineering	3	10 20 00
35	Non Traditional Machining	21ME751	2021-22	Elective Course	Bachelor	Mechanical Engineering	3	01 20 00
36	Hydraulics and Pneumatics	21ME752	2021-22	Elective Course	Bachelor	Mechanical Engineering	3	01 20 00
37	Operations Research	21ME753	2021-22	Elective Course	Bachelor	Mechanical Engineering	3	01 20 00
38	Geodetic Engineering	21CV32	2021-22	Core Course	Bachelor	civil engineering	4	25 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St D
39	COMPUTER AIDED BUILDING PLANNING AND DRAWING	21CVL35	2021-22	Core Course	Bachelor	civil engineering	1	01 20 00
40	Problem Solving with Python	21CV381	2021-22	Core Course	Bachelor	civil engineering	1	01 20 00
41	Personality Development and Soft skills (AEC)	21CV383	2021-22	Core Course	Bachelor	civil engineering	1	02 20 00
42	SOCIAL CONNECT AND RESPONSIBILITIES	21UHV39	2021-22	Core Course	Bachelor	management studies	1	02 20 00
43	PUBLIC HEALTH ENGINEERING	21CV43	2021-22	Core Course	Bachelor	civil engineering	4	02 20 00
44	Data Manipulation with Python Pandas	21CV481	2021-22	Core Course	Bachelor	civil engineering	1	01 20 00
45	Technical writing skills (AEC)	21CV483	2021-22	Core Course	Bachelor	civil engineering	1	01 20 00
46	PROJECT FINANCE	21CV484	2021-22	Core Course	Bachelor	civil engineering	1	01 20 00
47	GREEN BUILDINGS	21CV485	2021-22	Core Course	Bachelor	civil engineering	1	01 20 00
48	UNIVERSAL HUMAN VALUES-II UNDERSTANDING HARMONY and ETHICAL HUMAN CONDUCT	21UHV49	2021-22	Core Course	Bachelor	management studies	1	01 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St D
49	GEOTECHNICAL ENGINEERING	21CV54	2021-22	Core Course	Bachelor	civil engineering	3	01 20 00
50	RESEARCH METHODOLOGY and INTELLECTUAL PROPERTY RIGHTS	21CV56	2021-22	Core Course	Bachelor	civil engineering	2	01 20 00
51	Data Analysis with Python	21CV581	2021-22	Core Course	Bachelor	civil engineering	1	01 20 00
52	Gender Sensitisation (AEC)	21CV583	2021-22	Core Course	Bachelor	civil engineering	1	01 20 00
53	CONSTRUCTION MANAGEMENT AND ENTRPRENERSHIP	21CV61	2021-22	Core Course	Bachelor	civil engineering	3	01 20 00
54	APPLIED GEOTECHNICAL ENGINEERING	21CV642	2021-22	Core Course	Bachelor	civil engineering	3	01 20 00
55	ALTERNATE BUILDING MATERIALS	21CV646	2021-22	Core Course	Bachelor	civil engineering	3	01 20 00
56	Occupational Health and Safety	21CV653	2021-22	Core Course	Bachelor	civil engineering	3	01 20 00
57	Digital System Design Using Verilog	21EC32	2021-22	Core Course	Bachelor	Electronics and Communication	4	30 20 00
58	LabVIEW Programming Basics	21EC384	2020-21	Core Course	Bachelor	Electronics Communications	1	25 20 00
59	Communication Theory	21EC44	2021-22	Core Course	Bachelor	Electronics and Communication	3	05 20 00



Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St D
60	Octave Scilab for Signals	21EC483	2020-21	Core Course	Bachelor	Electronics and Communication	1	05 20 00
61	IoT Internet of Things Lab	21EC581	2020-21	Core Course	Bachelor	Electronics and Communication	1	31 20 00
62	Communication Simulink Toolbox	21EC582	2020-21	Core Course	Bachelor	Electronics and Communication	1	10 20 00
63	VLSI Design and Testing	21EC63	2020-21	Core Course	Bachelor	Electronics and Communication	3	15 20 00
64	Artificial Neural Networks	21EC641	2020-21	Core Course	Bachelor	Electronics and Communication	3	15 20 00
65	Python Programming	21EC643	2020-21	Core Course	Bachelor	Electronics and Communication	3	10 20 00
66	Micro Electro Mechanical Systems	21EC644	2020-21	Core Course	Bachelor	Electronic and Communication	3	15 20 00
67	Micro Electro Mechanical Systems	21EC644	2020-21	Core Course	Bachelor	Electronics and Communication	3	20 20 00
68	Advanced VLSI	21EC71	2020-21	Core Course	Bachelor	Electronics and Communication	3	25 20 00
69	Biomedical Signal Processing	21EC724	2020-21	Core Course	Bachelor	Electronics and Communication	3	25 20 00
70	Fabrication Technology	21EC733	2020-21	Core Course	Bachelor	Electronics and Communication	3	25 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
71	Machine Learning With Python	21EC734	2020-21	Core Course	Bachelor	Electronics and Communication	3	20 20 00
72	Optical and Satellite Communication	21EC741	2020-21	Core Course	Bachelor	Electronics and Communication	3	20 20 00
73	MANAGEMENT AND ENTREPRENEURSHIP FOR IT INDUSTRY	18CS51	2020-21	Core Course	Bachelor	Artificial Intelligence and Machine Learning	3	19 20 00
74	Python Programming	18AI52	2020-21	Core Course	Bachelor	Artificial Intelligence and Machine Learning	4	19 20 00
75	PRINCIPLES OF ARTIFICIAL INTELLIGENCE	18AI55	2020-21	Core Course	Bachelor	Artificial Intelligence and Machine Learning	3	20 20 00
76	MATHEMATICS FOR MACHINE LEARNING	18AI56	2020-21	Core Course	Bachelor	Artificial Intelligence and Machine Learning	3	20 20 00
77	MACHINE LEARNING	18AI61	2020-21	Core Course	Bachelor	Artificial Intelligence and Machine Learning	4	20 20 00
78	NATURAL LANGUAGE PROCESSING	18AI641	2020-21	Core Course	Bachelor	Artificial Intelligence and Machine Learning	3	20 20 00
79	SOFTWARE PROJECT MANAGEMENT	18AI642	2020-21	Core Course	Bachelor	artificial intelligence and machine learning	3	01 20 00
80	FOUNDATION FOR DATA SCIENCE	18AI644	2020-21	Core Course	Bachelor	artificial intelligence and engineering	3	01 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Ds
81	ADVANCED ARTIFICIAL INTLLIGENCE	18AI71	2020-21	Core Course	Bachelor	artificial intelligence and machine learning	3	01 20 00
82	BLOCKCHAIN TECHNOLOGY	18AI733	2020-21	Core Course	Bachelor	artificial intelligence and machine learning	3	01 20 00
83	BUSINESS INTELLIGENCE	18AI744	2020-21	Core Course	Bachelor	artificial intelligence and machine learning	3	01 20 00
84	INTRODUCTION TO BIG DATA ANALYTICS	18CS751	2020-21	Elective Course	Bachelor	artificial intelligence and machine learning	3	01 20 00
85	PYTHON APPLICATION PROGRAMMING	18CS752	2020-21	Elective Course	Bachelor	artificial intelligence and machine learning	3	01 20 00
86	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	18CS753	2020-21	Elective Course	Bachelor	artificial intelligence and engineering	3	01 20 00
87	NEURAL NETWORKS AND DEEP LEARNING	18AI81	2020-21	Core Course	Bachelor	artificial intelligence and machine learning	3	01 20 00
88	SOFT AND EVOLUTIONARY COMPUTING	18AI822	2020-21	Core Course	Bachelor	artificial intelligence and machine learning	3	01 20 00
89	ROBOTIC PROCESS AUTOMATION DESIGN AND DEVELOPMENT	18AI823	2020-21	Core Course	Bachelor	artificial intelligence and machine learning	3	01 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St: Da
90	MODERN INFORMATION RETRIEVAL	18AI824	2020-21	Core Course	Bachelor	artificial intelligence and machine learning	3	01 20 00
91	ANALYSIS OF DETERMINATE STRUCTURES	18CV42	2020-21	Core Course	Bachelor	civil engineering	3	01 20 00
92	CONSTRUCTION MANAGEMENT AND ENTREPRENEURSHIP	18CV51	2020-21	Core Course	Bachelor	civil engineering	3	01 20 00
93	APPLIED GEOTECHNICAL ENGINEERING	18CV62	2020-21	Core Course	Bachelor	civil engineering	3	01 20 00
94	GROUND IMPROVEMENT TECHNIQUES	18CV644	2020-21	Core Course	Bachelor	civil engineering	3	01 20 00
95	REMOTE SENSING AND GIS	18CV651	2020-21	Core Course	Bachelor	civil engineering	3	01 20 00
96	OCCUPATIONAL HEALTH AND SAFETY	18CV653	2020-21	Core Course	Bachelor	civil engineering	3	01 20 00



## 2.2) Non-Academic Courses in Innovation, Entrepreneurship and IPR

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Pr St: Da
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Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Pr Sta Da
1	Webinar on Innovation in Agile Scrum and Kanban Technologies	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Computer Science and Engineering	17-20:00:
2	Faculty Development Programme on Alternate Fuel	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	Mechanical Engineering	21-20:00:
3	Entrepreneurship Development Programme	2020-21	Entrepreneurship Development Program (EDP)	State Govt. Agency	Research and Development- Alumni Association	21-20:00:
4	Soap Synthesis	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Department of Chemistry	21-20:00:
5	CREDIT COURSE ON INTELLECTUAL PROPERTY RIGHTS FOR ENGINEERING STUDENTS	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Electronics and Communication Engineering and Research and Development	30-20:00:

### Section 3: Pre-Incubation and Incubation Infrastructure & Facilities are Currently in Operation to Promote I&E Agenda (AY 2020-21 & 2021-22)

#### 3.1) Existence of Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Cell/Startup Cell) (>= 600 Sq. Ft. Floor Area)

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email
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<b>Sr. No.</b>	<b>Type of the Unit</b>	<b>Name of Unit</b>	<b>In-charge Name</b>	<b>Contact no</b>	<b>Email</b>
1	Start-Up Cell	CSE_Pre_Incubation	Dr. Shivakumar K B	9448661097	kbshivakumar@dbit.co.in
2	Innovation Cell	ISE_Pre_Incubation	Dr. Raghavendra B K	9844553989	bkraghavendra@dbit.co.in
3	Start-Up Cell	ECE_Pre_Incubation	Dr. A N Maheswarappa	9632795464	anmaheswarappa@dbit.co.in

<b>Sr. No.</b>	<b>Type of the Unit</b>	<b>Name of Unit</b>	<b>In-charge Name</b>	<b>Contact no</b>	<b>Email</b>
4	Start-Up Cell	EEE_Pre_Incubation	Dr. Anguraja R	9845236837	anguraja@dbit.co.in
5	Start-Up Cell	ME_Pre_Incubation	Dr. shivanna	9980219556	shivu@dbit.co.in
6	Innovation Cell	AI&ML_Pre_Incubation	Dr. Anasuya N J	9480259715	anasuyaprakash@dbit.co.in

<b>Sr. No.</b>	<b>Type of the Unit</b>	<b>Name of Unit</b>	<b>In-charge Name</b>	<b>Contact no</b>	<b>Email</b>
7	Innovation Cell	AI&DS_Pre_Incubation	Dr. Nagaraja P	9845657560	drnagaraja@dbit.co.in
8	Start-Up Cell	Civil_Pre_incubation	Dr. Ramesh R L	9845657560	rameshrl@dbit.co.in
9	Innovation Cell	Physics_Pre_Incubation	Dr. Koushalya P R	8494941888	koushalyapr@dbit.co.in



<b>Sr. No.</b>	<b>Type of the Unit</b>	<b>Name of Unit</b>	<b>In-charge Name</b>	<b>Contact no</b>	<b>Email</b>
10	Innovation Cell	Chemistry_Pre_Incubation	Dr. Manjunath A S	8147224191	madhumanjuas@dbit.co.in
11	Start-Up Cell	CSE_Pre_Incubation	Dr. Shivakumar K B	9448661097	kbshivakumar@dbit.co.in
12	Innovation Cell	ISE_Pre_Incubation	Dr. Raghavendra B K	9844553989	bkraghavendra@dbit.co.in

<b>Sr. No.</b>	<b>Type of the Unit</b>	<b>Name of Unit</b>	<b>In-charge Name</b>	<b>Contact no</b>	<b>Email</b>
13	Start-Up Cell	ECE_Pre_Incubation	Dr. A N Maheswarappa	9632795464	anmaheswarappa@dbit.co.in
14	Start-Up Cell	EEE_Pre_Incubation	Dr. Anguraja R	9845236837	anguraja@dbit.co.in
15	Start-Up Cell	ME_Pre_Incubation	Dr. shivanna	9980219556	shivu@dbit.co.in

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email
16	Innovation Cell	AI&ML_Pre_Incubation	Dr. Anasuya N J	9480259715	anasuyaprakash@dbit.co.in
17	Innovation Cell	AI&DS_Pre_Incubation	Dr. Nagaraja P	9845657560	drnagaraja@dbit.co.in
18	Start-Up Cell	Civil_Pre_incubation	Dr. Ramesh R L	9845657560	rameshrl@dbit.co.in

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email
19	Innovation Cell	Physics_Pre_Incubation	Dr. Koushalya P R	8494941888	koushalyapr@dbit.co.in
20	Innovation Cell	Chemistry_Pre_Incubation	Dr. Manjunath A S	8147224191	madhumanjuas@dbit.co.in



### 3.2) Existence of Incubation Facility ( $\geq$ 1500 Sq. Ft. Floor Area)

Sr. No.	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
1	KCTU TBI	Dr Nataraj KR	9916065415	director.research@dbit.co.in	MSME
2	CSE_Incubation	Dr. Shivakumar K B	9448661097	kbshivakumar@dbit.co.in	Own Resource
3	ISE_Incubation	Dr. Raghavendra B K	9844553989	bkraghavendra@dbit.co.in	Own Resource
4	ECE_Incuation	Dr. A N Maheswarappa	9632795464	anmaheswarappa@dbit.co.in	Own Resource

Sr. No.	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
5	EEE_Incubation	Dr. Anguraja R	9845236837	anguraja@dbit.co.in	Own Resource
6	ME_Incubation	Dr. Shivanna	9980219556	shivu@dbit.co.in	Own Resource
7	AI&ML_incubation	Dr. Anasuya N J	9480259715	anasuyaprakash@dbit.co.in	Own Resource
8	AI&DS_Incubation	Dr. Nagaraja P	9986788007	drnagaraja@dbit.co.in	Own Resource
9	Civil_Incubation	Dr. Ramesh R L	9845657560	rameshrl@dbiit.co.in	Own Resource
10	Physics_Incubation	Dr. Koushalya P R	8494941888	koushalyapr@dbit.co.in	Own Resource
11	Chemistry_Incubation	Dr. Manjunath A S	8147224191	madhumanjuas@dbit.co.in	Own Resource

### 3.3) Existence of IPR Cell / Patent Facilitation Unit / Technology Transfer Centre at the institute

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
1	IPR Cell	KSCST DBIT IP CELL	Prof. Rekha S	9741543334	rekha.msn@dbit.co.in	Mentoring Support,Seed Grant Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development),Incubation Facility Support (Innovative Business Model to Startup and Market Linkage & Growth Stage),Investment - Angel a

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
2	Technology Transfer Centre /TTO	KSCST DBIT TTO CENTRE	Prof Rekha S	9741543334	rekha.msn@dbit.co.in	Mentoring Support,Seed Grant Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development),Incubation Facility Support (Innovative Business Model to Startup and Market Linkage & Growth Stage),Investment - Angel a
3	IPR Cell	KSCST DBIT Patent Facilitation Unit	Prof. Rekha S	9741543334	rekha.msn@dbit.co.in	Mentoring Support,Seed Grant Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development),Incubation Facility Support (Innovative Business Model to Startup and Market Linkage & Growth Stage),Investment - Angel a
4	IPR Cell	KSCST DBIT IP CELL	Prof. Rekha S	9741543334	rekha.msn@dbit.co.in	Mentoring Support,Seed Grant Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development),Incubation Facility Support (Innovative Business Model to Startup and Market Linkage & Growth Stage),Investment - Angel a

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
5	Technology Transfer Centre /TTO	KSCST DBIT TTO CENTRE	Prof Rekha S	9741543334	rekha.msn@dbit.co.in	Mentoring Support,Seed Grant Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development),Incubation Facility Support (Innovative Business Model to Startup and Market Linkage & Growth Stage),Investment - Angel a
6	IPR Cell	KSCST DBIT Patent Facilitation Unit	Prof. Rekha S	9741543334	rekha.msn@dbit.co.in	Mentoring Support,Seed Grant Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development),Incubation Facility Support (Innovative Business Model to Startup and Market Linkage & Growth Stage),Investment - Angel a

## Section 4: Generation and Support of Ideas / Prototypes / Innovations at HEI and Recognition received (AY 2020-21 & 2021-22)

**4) Total no. of Innovations (Verified and Recommended) in Different TRLs (4-9) are Recorded in the YUKTI National Innovation Repository of the IIC Institute ( Status as on 16th October 2022)**

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagem of Team Lead in Institute
1	DIRECT AVAILING OF RURAL SCHEMES BY ELEGIBLE RURAL BENEFECIARY	Independent Assignment/Non-academic Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	ANISHA H KANDACHAR	Student
2	AUTOMATED PROCTORING SYSTEM TO DETECT ANOMALOUS BEHAVIOUR IN E-LEARNING DURING TIMES OF CRISIS	Academic Requirement/Study Project	2021-22	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale	RANJEET RATHOD	Student
3	Portable 3D Scanner	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Ranjan P	Student

## Section 5: Start-ups/Ventures Established and Supported at HEI and & Recognitions Received (AY 2020-21 & 2021-22)

**5) Total no of Ventures/Startups (Verified and Recommended) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 16th October 2022)**



Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Startup/Recogniz DPIIT/St: India
1	Autonomous Intelligent Material Movement Vehicles	Private Limited Firm (Pvt. Ltd.)	U72900KA2019PTC127120	null	2019-20	1

## Section 6: Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

### 6) Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
1	Quantum Learnings-Center of Excellence (Regd.)	Corporate/Industry Association	2022	Active	08-12-2021	<a href="#">View (/)</a>
2	BGS Institute of Technology	Educational Institute	2024	Active	26-08-2021	<a href="#">View (/)</a>
3	HMS Institute of Technology	Educational Institute	2024	Active	30-08-2021	<a href="#">View (/)</a>
4	Rajeev Institute of Technology	Educational Institute	2024	Active	16-08-2021	<a href="#">View (/)</a>
5	Sri Siddhartha Institute of Technology	Educational Institute	2024	Active	17-08-2021	<a href="#">View (/)</a>

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
6	SJB Institute of Technology	Educational Institute	2024	Active	26-08-2021	<a href="#">View (/)</a>
7	Prakruthi Institute of Environmental Studies	Educational Institute	2026	Active	24-09-2021	<a href="#">View (/)</a>
8	M/s EdGate Technologies Pvt. Limited	Corporate/Industry Association	2024	Active	02-09-2021	<a href="#">View (/)</a>
9	Ideal Educraft Technologies, Bangalore	Corporate/Industry Association	2024	Active	03-07-2020	<a href="#">View (/)</a>
10	Pozibility Technologies Pvt. Ltd.	Corporate/Industry Association	2024	Active	05-11-2020	<a href="#">View (/)</a>
11	Tech Fortune Technologies, Bangalore	Corporate/Industry Association	2024	Active	04-07-2020	<a href="#">View (/)</a>
12	BGS Gleneagles Global Hospital (A unit of Ravindranath GE Medical Associates Pvt. Ltd.)	Non Govt. Agency	20	Active	29-07-2021	<a href="#">View (/)</a>
13	Karnataka State Council for Science and Technology	Govt. Agency (State)	2025	Active	06-02-2020	<a href="#">View (/)</a>
14	Karnataka Science and Technology Academy, Bengaluru	Govt. Agency (State)	2027	Active	05-07-2022	<a href="#">View (/)</a>
15	Entrepreneurship Research Skill Council	Govt. Agency (State)	2024	Active	24-06-2022	<a href="#">View (/)</a>

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
16	Visvesvaraya Technological University	Govt. Agency (State)	2023	Active	24-03-2021	<a href="#">View (/)</a>
17	S R Innovative Technologies	Corporate/Industry Association	2024	Active	01-09-2021	<a href="#">View (/)</a>
18	Karnataka State Open University	Govt. Agency (State)	4	Active	04-01-2020	<a href="#">View (/)</a>
19	San IT Solutions Pvt. Ltd.	Corporate/Industry Association	2024	Active	04-12-2021	<a href="#">View (/)</a>
20	Bangalore District Amateur Cycling Association (BDACA)	Govt. Agency (State)	2023	Active	08-10-2020	<a href="#">View (/)</a>
21	Baseball Association of Karnataka	Govt. Agency (State)	2025	Active	08-10-2022	<a href="#">View (/)</a>
22	Karnataka State Weightlifter's Association (Regd.)	Govt. Agency (State)	2023	Active	08-10-2020	<a href="#">View (/)</a>
23	Spoorthy Sports Association Regd.	Govt. Agency (State)	2023	Active	08-10-2020	<a href="#">View (/)</a>
24	Tatyana Petrova Atanasova, Bulgaria	Educational Institute	2025	Active	02-04-2020	<a href="#">View (/)</a>
25	Shubha Europa, Bulgaria	Educational Institute	2025	Active	02-04-2020	<a href="#">View (/)</a>
26	Vtricks Technologies	Corporate/Industry Association	4	Active	01-09-2021	<a href="#">View (/)</a>
27	Automata Research Laboratory	Research Park	4	Active	01-09-2021	<a href="#">View (/)</a>
28	Pyra Windo Power Academy	Non Govt. Agency	3	Active	07-01-2021	<a href="#">View (/)</a>

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
29	V V Technologoies	Corporate/Industry Association	4	Active	10-03-2020	<a href="#">View (/)</a>
30	Brainovision Solution Private Limited	Corporate/Industry Association	3	Active	26-06-2021	<a href="#">View (/)</a>
31	Seventh Sense People Development Solutions Pvt Ltd., Bengaluru	Knowledge/Mentoring Agency	1	Inactive	29-01-2021	<a href="#">View (/)</a>
32	TNS India Foundation (TNSIF)	Corporate/Industry Association	1	Inactive	12-11-2020	<a href="#">View (/)</a>

## Section 7: Intellectually Property (IP) Generated and Commercialization

### 7.1) IPR Filed and Published (Copyrights & Design only)

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP(Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society?
1	Kavana Guccha By Anuprama	Copy Right	L-98453/2021	12-01-2021	No

	<b>Title/Name of IP</b>		<b>IP Registration</b>		<b>Has this IP(Copyright &amp; Designs Only) been Commercialized/Transferred</b>
<b>Sr. No.</b>	<b>(Copyright/Design Only)</b> Evaluation of Mechanical and	<b>Type Copy of IP Right</b>	<b>Number of Copyright/Design</b> L-99182/2021	<b>Date of Filed/Published</b> 13-11-2020	<b>to No Industry/Startup/Society?</b>
	Tribological Properties of boron carbide particulates and short basalt fibre reinforced AL2014 based hybrid composite.				
3	Algorithms for the early detection and classification of oral cancer	Copy Right	18124/2020-CO	05-04-2021	No
4	DESIGN OF LOW POWER HIGH SPEED ANALOG CMOS COMPONENTS	Copy Right	L--103545/202	21-05-2021	No
5	DESIGN PATENT: WRITING BOARD WITH ARRANGEMENT OF PROJECT AND CAMERA	Design	350664-001	10-04-2021	No

## 7.2) Patents Filed by HEI

<b>Sr. No.</b>	<b>Title/Name of Patent</b>	<b>IP Registration Number</b>	<b>Date of Filed/Published</b>
1	ANTIMICROBIAL COCONUT SOAP COMPOSITION	202041047239	29-10-2020
2	ROLLING SEISMIC BASE INSULATOR USING STAINLESS STEEL BALLS ATTACHED TO THE UPPER PLATE OF BASE ISOLATOR.	E-12/2/2021/C	08-01-2021
3	RASPBERRY PI BASED SMART REFRIGERATOR TO RECOGNIZE FRUITS AND VEGETABLES REMOTELY	202041047218	29-10-2020
4	AN INTELLIGENT SYSTEM WITH GESTURE CONTROL TO AID HEARING AND SPEECH DISABLED PEOPLE	202041048106	04-11-2020

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
5	MODIFIED PISTON HEAD TO IMPROVE THE COMBUSTION RATE IN INTERNAL COMBUSTION ENGINES	202041048270	05-11-2020
6	Palm, Sole (Foot) and Hip Massage Base Plate with Rolling Steel Balls	202041057081	30-12-2020
7	AN EFFICIENT APPROACH FOR TRAFFIC CONGESTION AND MANAGEMENT USING IOT DEVICES AND ITS IMPLEMENTATION ON FPGA	202041047230	29-10-2020
8	PRODUCTION OF BIO FERTILIZERS IN SOLID WASTE BY USING AUTOMATED COMPOSTING MACHINE	202141030250	06-07-2021
9	11GHZ RADIO TRANSCEIVER ARCHITECTURE WITH F-OFDM AND 128 QAM MODULATION FOR 5G MOBILE SYSTEM	202041042872	01-10-2020
10	ARTIFICIAL SPEAKING IOT BASED "TALKING HAND" AN ASSISTIVE DEVICE FOR DUMB PEOPLE IN REGIONAL LANGUAGE KANNADA	2021103792	23-03-2022
11	AI Based Smart Meter for Water Utilization and Quality Monitoring Using IoT	2021105136	20-04-2022
12	REAL TIME TRAFFIC MANAGEMENT SYSTEM USING MACHINE LEARNING AND IMAGE PROCESSING	2021105151	01-06-2022
13	COCONUT OIL AND SIMAROUBA LEAVES EXTRACT SOAP COMPOSITION FOR ANTIFUNGAL APPLICATIONS	202241014292	16-03-2022
14	ANIMAL SECURITY AND PROTECTION SYSTEM IN FORESTS WITH SENSORS, BIOCHIPS & GP5, USING WIRELESS COMMUNICATION THROUGH CLOUD	202241045558	10-08-2022
15	Novel Anti-Theft systemfor two wheelerand four wheelers	202241014956	18-03-2022
16	AN ARTIFICIAL INTELLIGENCE SYSTEM FOR BIOMEDICAL DEVICES MONITORING USING SPEECH COMMAND AND IOT	202141055304	10-12-2021
17	IOT BASED SMART WATER LEVEL MONITORING SYSTEM IN RESERVOIR USING CLOUD METHOD THEREOF	202141049316	05-11-2021
18	AI BASED HYBRID AIRCRAFT FOR MEDICINE DELIVERIES IN REMOTE AND DISASTER AREAS	2021106059	30-09-2021
19	METHOD OF LUNG CANCER DETECTION USING MACHINE LEARNING BASED CT- SCAN IMAGE PROCESSING	201941050453	06-12-2020
20	ARTIFICIAL INTELLIGENCE IOT BASED WRIST BAND FOR COVID-19 PATIENTS	202141003024	22-01-2021
21	EMBEDDED POWER SAVING MODEL FOR LED PANELS	201941036971	13-09-2020

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
22	CIRCUIT FAULT DETECTION AND LOCATION SYSTEM	201941035429	03-09-2020
23	AUTOMATIC DETECTION AND PREVENTION OF ANIMALS IN AGRICULTURE FIELDS BY USING RENEWABLE RESOURCES	202241053197	17-09-2022
24	FABRICATION OF COVID PROTECTION SANITIZATION MACHINE FOR PACKING AND DELIVERING OF PRODUCTS	202241053199	17-09-2022
25	DESIGN AND FABRICATION OF BATTERY COOLING FOR ELECTRIC VEHICLE	202241053201	17-09-2022
26	DESIGN AND FABRICATION OF PIEZO-ELECTRIC ENERGY HARVESTER FROM PRESSURE FORCES DEVELOPED IN AUTOMOTIVE TYRES	202241053210	17-09-2022
27	DESIGN AND FABRICATION OF PULLEY BASED MOVABLE CRANE ROBOT	202241053215	17-09-2022
28	Automated Proctoring System to Detect Anomalous Behaviour in E-learning during Times of Crisis	202241054163	22-09-2022
29	NEURAL PAINTING WITH PIXEL SIMILARITY AND PROGRESSIVE RENDERING	202241054156	22-09-2022
30	SUDDEN HEART ATTACK DETECTION IN COVID AFFECTED PATIENTS USING WEARABLE DEVICE	202241054161	22-09-2022
31	PORTABLE 3D SCANNER	202241054460	22-09-2022
32	VOICE CONTROLLED ROBOT FOR SURVEILLANCE	202241054574	23-09-2022
33	IoT and Data Analytics in Smart Agricultural System	202241054466	23-09-2022
34	SANDALWOOD TREE DETECTION USING DEEP LEARNING	202241054775	24-09-2022
35	EARLY FLOOD WARNING AND WATER QUALITY DETECTION SYSTEM USING IOT	202241054776	24-09-2022
36	E-HEALTH CARE SUPPORT SYSTEM IN BOTH KANNADA AND ENGLISH LANGUAGE	202241054934	26-09-2022
37	Experimental Investigation of partial replacement of aggregate with steel slag and cocconut biochar as filler material in bituminous pavements	202241054937	26-09-2022
38	Effect of Recycled Asphalt Pavement and Ground Granulated Blast Furnace Slag as a Composite Materials in Rigid Pavements	202241054959	26-09-2022

### 7.3) Patent Published / Granted Data

7.4) IP Commercialized and Transferred to Industry/Startup

Sr. No.	Name of Technology Licenced/Transferred/Commercialized	Technology Type	Patent/Licence Holder name (Institute Co-ownership is Must)	Technology Transferred to	Name of Licensee	

No Data Found





# Declaration

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

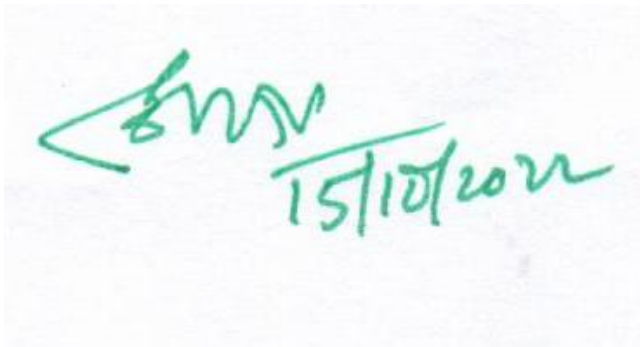
## Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself **Dr. Hemandri Naidu T** (Head of Institute) and **Dr. Nataraj K R** (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

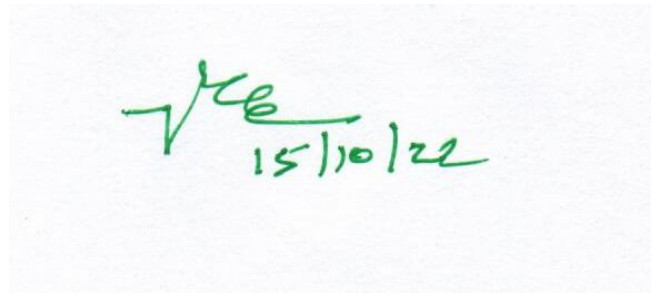
The Head of Institute



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Dr. Hemandri Naidu T,  
Head of the Institution,  
Don Bosco Institute of Technology, BANGALORE,  
Bangalore, Karnataka

Nodal officer



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Dr. Nataraj K R,  
Nodal Officer,  
Don Bosco Institute of Technology, BANGALORE,  
Bangalore, Karnataka