

IQAC



**ANNUAL REPORT
2019-20**



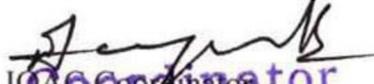
CONTENTS

SL. No	Particulars
01	Plan of Action
02	Result Analysis (UG & PG)
03	Journal Publications
04	Books/Chapter/Conferences
05	FDP/Workshop/ Training Programme etc., (Organized/Attended)
06	MOU's

Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year 2019-20

Plan of Action	Achievements/Outcomes
Co Curricular Activities	Guest Lectures have been organized by Various departments. Workshops have been organized by Various departments to improve the knowledge of faculty and students. Various departments have organized 04 Certification Programs.
Industry Interaction	A) Industrial visits: Various departments have organized 03 industrial visits. 95 students were participated in the industrial visits. B) Internships and Industrial Trainings: 264 UG 3rd year students have undergone Internship in various organizations. 08 PG students have taken up Internship / Field projects in various organizations. C) MOUs: 08 MOUs have been signed with industries during the year.
Capability enhancement and development schemes	Career Counselling: 30 No. of personal Counselling sessions have been conducted. 900 students are benefitted by personal Counselling classes. 296 placements have been made during the A.Y.201920. Remedial Classes for slow learners: Remedial classes have been conducted regularly for Students with less than 50 of IA marks. 1075 students have enrolled and remedial classes have been conducted for 824 students. 100 of faculty members are using ICT facilities. Faculty performance has been improved. 01 Faculty development Program has been organized mechanical engineering department.
Research Activities and publications	41 Research papers have been published. 03 faculty members have obtained Doctoral degree. Civil, EEE and MECH departments are recognized as Research Centers by VTU Belagavi, Karnataka.
Extent of financial assistance to the faculty members	50 percent Concession is provided for medical treatment to employees of the Institute. 08 Faculty members were provided with financial assistance to attend International conferences/Workshops. Personal loans, Vehicle loans, Home loans are provided
Extra Curricular and Cultural activities	More number of students participated in sports and games competitions at national and university level. More number of students participated in cultural competitions at national and university level.

Extension Activities Human and Ethical values	More than 1000 students have participated in various extension activities NSS unit is very functional and involving students in like Blood donation camps, Tree plantations, Pulse polio camps to local children etc., continuously. Two students have won Medals at National level games. Activities have been conducted for promotion of Universal Values and Ethics.
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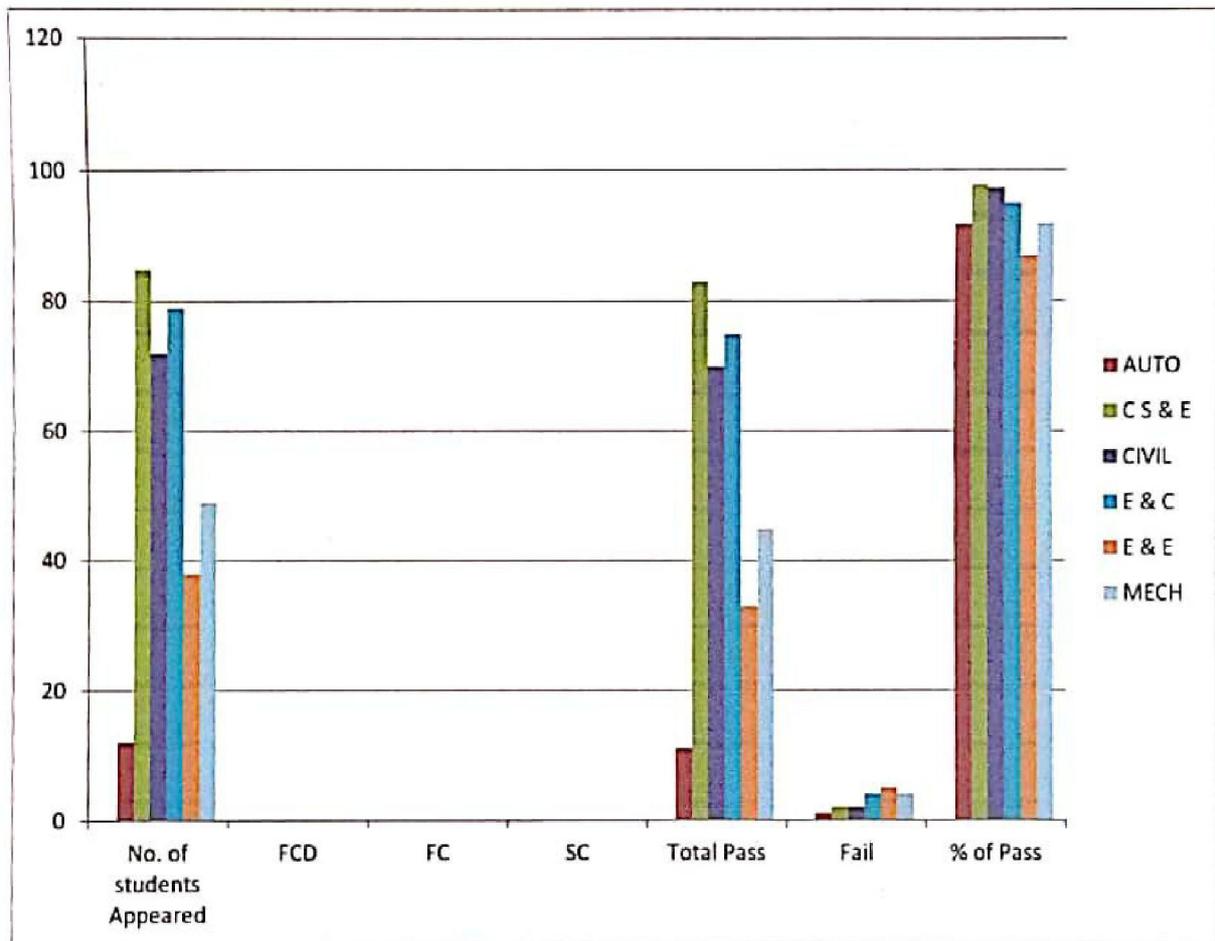

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Percentage of Results for the examination held in the month of August - 2020
CBCS

Branch	No. of students Appeared	FCD	FC	SC	Total Pass	Fail	% of Pass
AUTO	12	0	0	0	11	1	91.67
C S & E	85	0	0	0	83	2	97.65
CIVIL	72	0	0	0	70	2	97.22
E & C	79	0	0	0	75	4	94.94
E & E	38	0	0	0	33	5	86.84
MECH	49	0	0	0	45	4	91.84



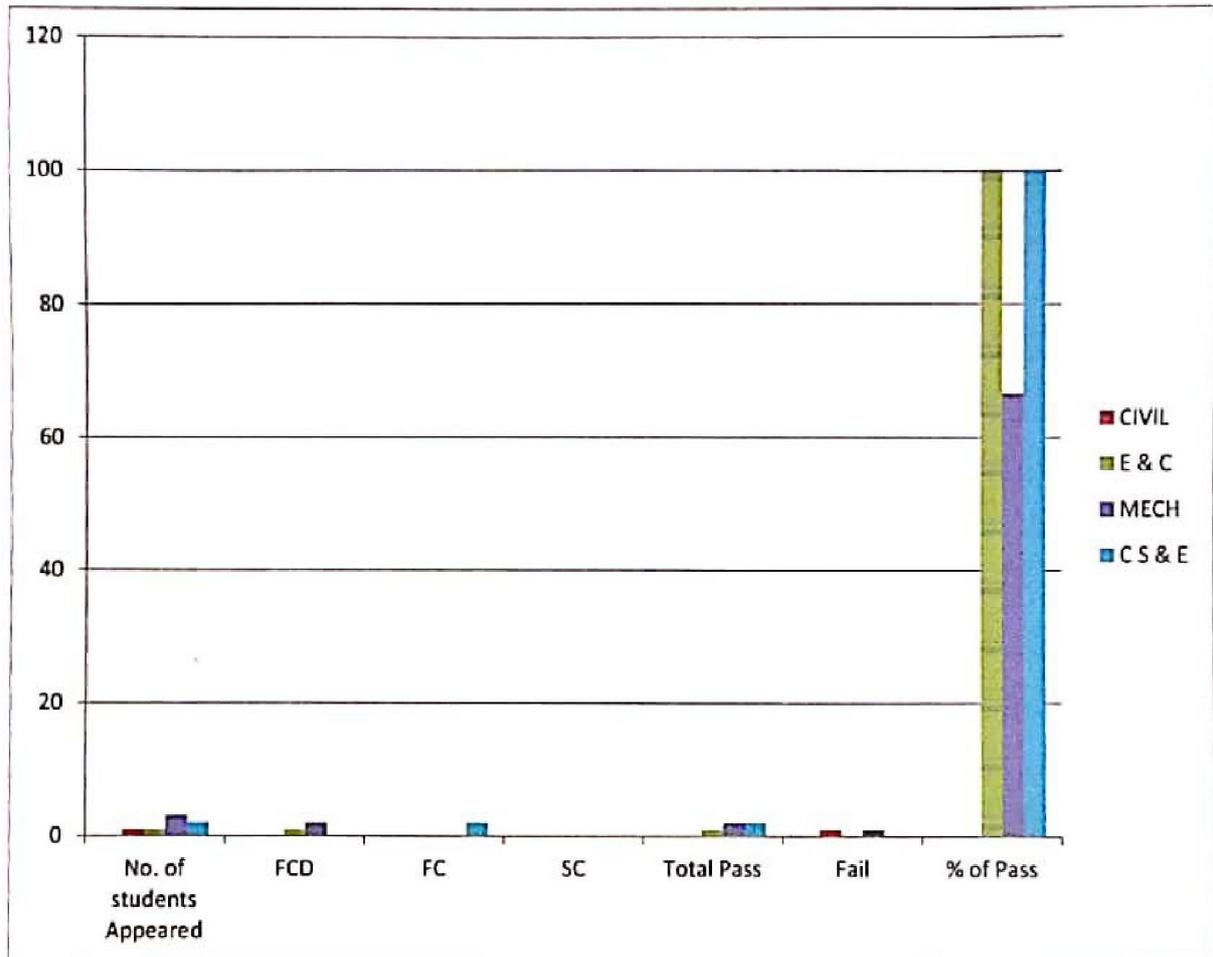
B. Hanthas
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Percentage of Results for the examination held in the month of August - 2020

NON-CBCS

Branch	No. of students	FCD	FC	SC	Total Pass	Fail	% of Pass
CIVIL	1	0	0	0	0	1	0.00
E & C	1	1	0	0	1	0	100.00
MECH	3	2	0	0	2	1	66.67
CS & E	2	0	2	0	2	0	100.00



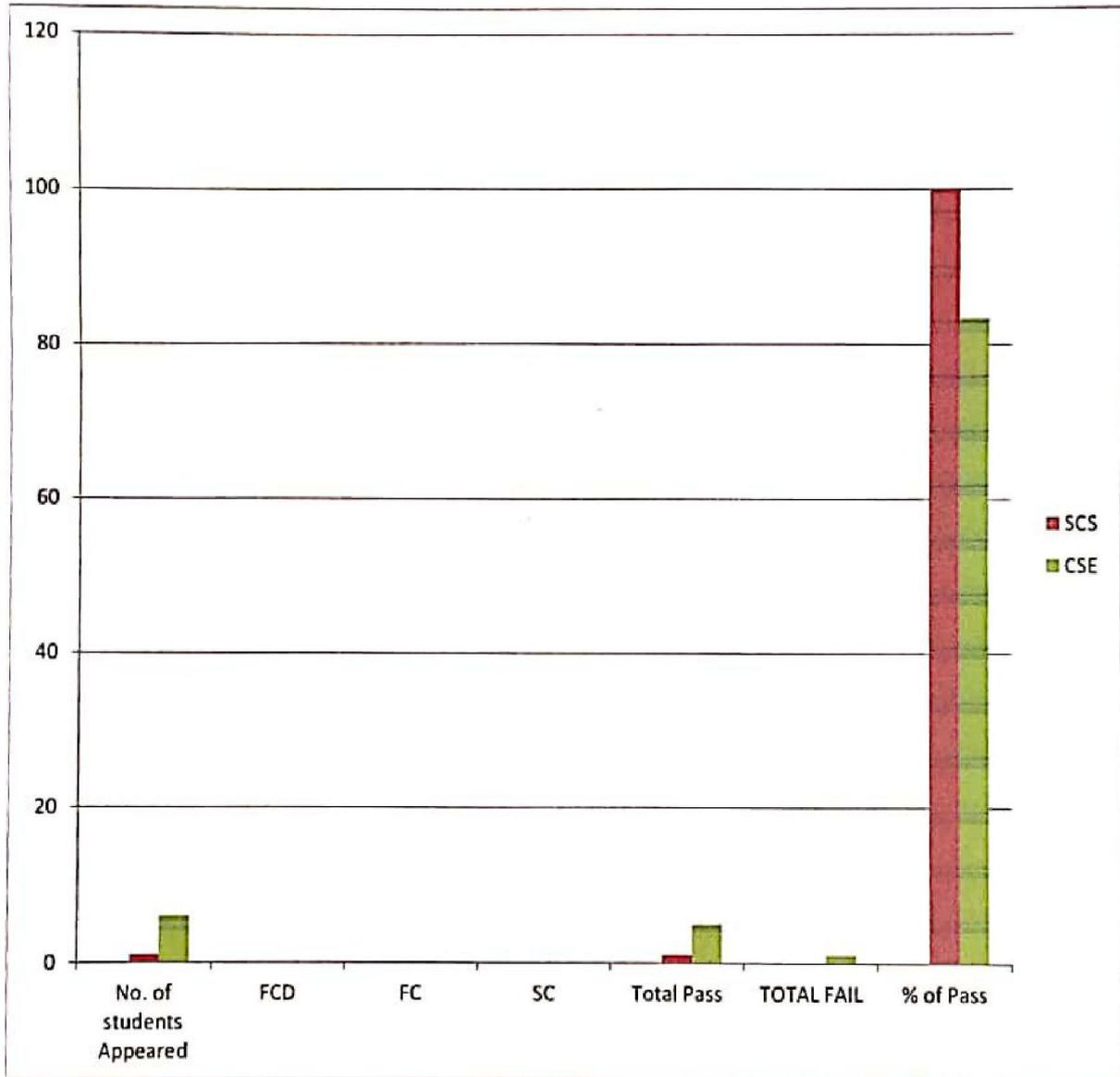
B. S. Hanthappa
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Percentage of Results for the examination held in the month of August - 2020

M.TECH

Branch	No. of students Appeared	FCD	FC	SC	Total Pass	TOTAL FAIL	% of Pass
SCS	1	0	0	0	1	0	100.00
CSE	6	0	0	0	5	1	83.33



Behantra
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Research papers published per teacher in the Journals notified on UGC CARE list during the year 2019-2020

Title of paper	Name of the author/s	Department of the Teacher	Name of Journal	Calendar Year of publication
Effect of Heat Treatment on Wear behavior of Hybrid Aluminum Metal Matrix Composites	Rajesh AM	Mechanical Engineering	Tribology in Industry	2019
Generation of mechanically mixed layer during wear in hybrid aluminum MMC under as-cast and age hardened conditions	Rajesh AM	Mechanical Engineering	SN Applied Sciences	2019
Effect of addition of sic and al ₂ o ₃ on wear behavior of hybrid aluminum metal matrix composites	Rajesh AM	Mechanical Engineering	ACTA TECHNICA CORVINIENSIS	2019
Experimental investigation on wear process parameters of magnesium metal matrix composites using Taguchi method	Sathish J	Mechanical Engineering	JETIR	2019
Wear Performance of Mg-5%SiC-5%Al ₂ O ₃ Metal Matrix Composites Using Taguchi Method	Sathish J	Mechanical Engineering	IJMRA	2019
Effect of Sintering Temperature, Load and Sliding speed on the Wear behavior of Mg-SiC-Al ₂ O ₃ metal matrix Composites using Taguchi method	Sathish J	Mechanical Engineering	International Journal of Research in Advent Technology,	2019

Hybrid Non Conventional Machining of Glass - A Review	Jagannatha N	Mechanical Engineering	Applied Mechanics and Materials	2019
Optimization of machine parameters on surface roughness	Jagannatha N	Mechanical Engineering	International journal of mechanical handling and automation	2019
Influence of titanium carbide and activated carbon particles on the wear of mechanical properties	Dr. H R Manohara	Mechanical Engineering	CSIR	2019
Effect of addition of sic and al ₂ o ₃ on wear behavior of hybrid aluminum metal matrix composites	Rajesh AM	Mechanical Engineering	ACTA TECHNICA CORVINIENSIS	2019
Comparison Analysis of Chattering in Smooth Sliding Mode Controlled DC-DC Buck Converter Using Constant plus Proportional Reaching Law and Proposed Reaching Laws	Siddesh K B	Electronics & Communication Engineering	Bulletin of Electrical Engineering and informatics	2019
Mathematical Modeling of Sliding Mode Reaching Laws for Buck Converter	Siddesh K B	Electronics & Communication Engineering	International Journal of Innovative Technology and Exploring Engineering	2019
Corrosion behaviour of metal complexes of antipyrine based azo dye ligand for soft-cast steel in 1 M hydrochloric acid	B G Devika	Physics	Journal of King Saud University- Science	2019
Synthesis, characterisation and molecular structure study of metal complexes of antipyrine based ligand	B G Devika	Physics	Journal of Molecular Structure	2019

Significance of Arrhenius activation energy in flow and heat transfer of tangent hyperbolic fluid with zero mass flux condition	K Ganesh Kumar	Mathematics	Microsystem Technologies	2019
Enhancement of heat transfer in a convergent/divergent channel by using carbon nanotubes in the presence of a Darcy–Forchheimer medium	K Ganesh Kumar	Mathematics	Microsystem Technologies	2019
Magneto Prandtl nanofluid past a stretching surface with non-linear radiation and chemical reaction	K Ganesh Kumar	Mathematics	Journal of computational and applied research	2019
Slip flow over a non-Newtonian fluid through a Darcy Forchheimer medium: Numerical approach	K Ganesh Kumar	Mathematics	Modern Physics Letters B	2019
Characterization of Chemical Reaction on Magnetohydrodynamics Flow and Nonlinear Radiative Heat Transfer of Casson Nanoparticles Over an Exponentially Sheet	K Ganesh Kumar	Mathematics	Journal of Nanofluids	2019


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Books and chapters in edited volumes/books published and papers published conference proceedings per teacher during year 2019-20

Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	Calendar Year of publication
Rajesh AM	ADVANCED COMPOSITES and Materials	Material characterization of SiC and Al ₂ O ₃ –reinforced hybrid aluminum metal matrix composites on wear behavior	ACMM	ADVANCED COMPOSITES	2019
Rajesh AM	Engineering Tribology in Industry	Effect of Heat Treatment on Wear behavior of Hybrid Aluminum Metal Matrix Composites	ETI	Tribology in Industry	2019
Rajesh AM	Advanced Manufacturing Composites and Materials	Generation of mechanically mixed layer during wear in hybrid aluminum MMC under as-cast and age hardened conditions	AMCM	SN Applied Sciences	2019
Rajesh AM	Acta technica corviniensis	Effect of addition of sic and al ₂ o ₃ on wear behavior of hybrid aluminum metal matrix composites	ATC	ACTA TECHNICA CORVINIENSIS	2019
Sathish J	Advances in Engineering Science and Computing	Experimental investigation on wear process parameters of magnesium metal matrix composites using Taguchi method	ICRASE	JETIR	2019
Sathish J	International Journal of Engineering Science and Computing	Wear Performance of Mg-5%SiC-5%Al ₂ O ₃ Metal Matrix Composites Using Taguchi Method	ICRASET	IJMRA	2019

Sathish J	Research in Advance Technology,	Effect of Sintering Temperature, Load and Sliding speed on the Wear behavior of Mg-SiC-Al ₂ O ₃ metal matrix Composites using Taguchi method	RASET	International Journal of Research in Advent Technology,	2019
Jagannatha N	Recent trends in Applied Mechanics and Materials	Hybrid Non Conventional Machining of Glass - A Review	ICRTAMM	Applied Mechanics and Materials	2019
Jagannatha N	Recent trends in mechanical handling and automation	Optimization of machine parameters on surface roughness	ICRTMAACM	International journal of mechanical handling and automation	2019
Dr. H R Manohara	Recent trends in Applied Mechanics and Materials	Influence of titanium carbide and activated carbon particles on the wear of mechanical properties	CSIR	CSIR	2019
Rajesh AM	Advances in ACTA TECHNICA CORVINIENSIS	EFFECT OF ADDITION OF SIC AND AL ₂ O ₃ ON WEAR BEHAVIOR OF HYBRID ALUMINUM METAL MATRIX COMPOSITES	ACTATC	ACTA TECHNICA CORVINIENSIS	2019
B G Devika	Advnces in Science Molecular Structure and Synthesis	Corrosion behaviour of metal complexes of antipyrine based azo dye ligand for soft-cast steel in 1 M hydrochloric acid	ICRASE	Journal of King Saud University- Science	2019
B G Devika	Advnces in Molecular Structure	Synthesis, characterisation and molecular structure study of metal complexes of antipyrine based ligand	ICARSM	Journal of Molecular Structure	2019


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Programs organized by the Institution during the year 2019-20

Name of the activity	Organising unit/ agency/ collaborating agency	Name of the scheme	Year of the activity
Swachhatha Abhiyana	S J M Vidyapeetha & S J M Institute of Technology	Swachh Bharat	2020
Independence day Celebrations	S J M Vidyapeetha & S J M Institute of Technology	Independence day Celebrations	2020
Woman's day celebration	S J M Vidyapeetha & S J M Institute of Technology	International Women's Day	2020
Republic Day Celebrations	S J M Vidyapeetha & S J M Institute of Technology	Republic Day Celebrations	2020
International Yoga Diwas	S J M Institute of Technology	International Yoga Diwas	2020
One student One Plant	S J M Institute of Technology & Karnataka state Bio Energy Development Board	Tree Plantation	2020
Kannada Rajyotsava	S J M Institute of Technology & S J M Hostel Group	Kannada Rajyotsava	2020
Engineers Day Celebrations	S J M Institute of Technology	Engineers Day Celebrations	2020
Gandhi Jayanthi	S J M Institute of Technology	Gandhi Jayanthi	2020
National Unity Day	S J M Institute of Technology	National Unity Day	2020
Blood Donation Program	S J M Institute of Technology & Youth Red Cross	Blood Donation Program	2020
World Environmental Day	S J M Institute of Technology & Karnataka state Bio Energy Development Board	World Environmental Day	2020
Entrepreneurship Awareness Camp	S J M Institute of Technology	Research & Development	2019
Entrepreneurship Awareness Camp	S J M Institute of Technology	Research & Development	2019
Awareness on Intellectual Property Rights	S J M Institute of Technology	Research & Development	2019
Intellectual Property Rights	S J M Institute of Technology	Research & Development	2019


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MoUs for internship,/on-the-job training/ project work/student / faculty during year 2019-20

Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (nternship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
SJM Institute of Technology	Abeyatrix softlab Pvt ltd Davanagere	2020	Internship	3 year
SJM Institute of Technology	PVC Pumps Pvt. Ltd., Davanagere-577 005.	2020	Industrial visites, Interaction with students	2 year
SJM Institute of Technology	Vinyas Associates, 1st main, Kannika Commercial Layout, Chitradurga	2020	Guest Lectures, Placement of Trained students	3 YEARS
SJM Institute of Technology	Mile stone Training Center, Chitradurga.	2020	Training of Students for placement,workshops	3 YEARS
SJM Institute of Technology	Mahindra- sri ranganatha motors	2020	Training of Students for placement	3 YEARS


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