

ANNUAL BUDGET 2019-2020



वार्षिक अंदाज पत्रक

२०१९-२०२०

(Approved by BOM in 20th meeting held on 01st June 2019 vide item no.20.5 and Finance Committee meeting in presence of Hon. Member held on 20th March 2019 vide item no.12.3)

GOVERNMENT COLLEGE OF ENGINEERING, KARAD
(An Autonomous Institute of Government of Maharashtra)

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Overall Strategies for Budget

The focus of the budget for this year is mainly on promoting interdisciplinary R & D, Green Campus and providing academic ambience to the students and faculty.

1. Promoting interdisciplinary research by creating interdisciplinary Center of Excellence Laboratory, Robotics, IOT, Virtual Lab, Cloud Computing
2. Improving ambience, creation of new facilities in the form of building and refurbishment & advanced equipment's / latest software's have been considered.
3. State government released funds and PWD started construction of new Library and Electronics & Telecommunication buildings and construction of proposed SC/ST hostel.
4. To improve the facelift of the institution, garden development, eco-friendly & smart campus
5. Conversion of one class room in each department into a smart class room with WIFI & other facility
6. Major & minor research projects provision has been made under R & D
7. Enhancement of industry institute interaction through student Internship at all levels
8. Rate contract for frequently required consumables
9. To enhance employability and higher education skills by Gate classes, employability enhancement programs.
10. Heavy Budgetary provision is made of overall development of the students under student clubs, students center activities, computations participation in National/International events
11. Activities are proposed in twining program for Rajkiya College of Engineering Ajamgarh, U.P. under TEQIP III.
12. National & International seminars / workshops / conferences / FDP / CEP have been proposed.
13. Solar roof / testing & research lab will be developed through MEDA / MNRE and State Govt. funds or institutes funds
14. Gymkhana / Student Activity Center / Playground Development through DSO & Institute funds.
15. Surveillance & security for whole campus through CCTV camera.
16. Academic enrichment through services of industry / academicians/ emeritus / adjunct / visiting faculties.

BUDGETED INCOME & EXPENDITURE FOR THE YEAR 2019-2020

Components of Income/ Expenditure	Unrestricted Funds													TOTAL	Restricted Fund			GRAND TOTAL	Previous Year Total
	Total Corpus Fund (F1)		Designated Funds												Technical Education Quality Improvement Programme	State Govt Assistance	Central Assistance		
	Corpus Fund	Accumulated	Faculty Development (F2)	Equipment Replacement (F3)	Maintenance (F4)	Institute Development (F5)	Salary (F6)	Gymkhana	Library	Training & Placement	Internet	Hostel	Exam Fee						
Income																			
Opening Balance	443.02	275.00	243.47	659.03	63.53	274.43	375.93	66.29	188.09	60.27	167.35	38.77	68.46	2923.65	0	0	0	2923.65	2082.97
Academic Receipts	92.24		76.45	335.27	50.97	101.93	251.24	42.65	115.05	29.29	82.15	59.21	42.36	1278.80				1278.80	1293.19
Grants & Donations														0.00	443.51	1590.75	372.67	2406.93	0.00
Income from investments	28.80		15.83	42.84	4.13	17.84	24.44	4.31	12.23	3.92	10.88	2.52	4.45	172.16				172.16	4.12
Other Incomes			14.61	14.61	25.12									54.34				54.34	11.12
TOTAL (A)	564.06	275.00	350.36	1051.76	143.74	394.20	651.60	113.25	315.36	93.48	260.38	100.49	115.27	4428.95	443.51	1590.75	372.67	6835.88	3391.41
Expenditure																			
Staff Payments: Salary			155.90				160.95							316.85	28.80	1500.00		1845.65	141.95
Staff Benefits							255.93							255.93	101.73		251.87	609.53	0.23
Academic Expenses: Recurring						35.86		34.05	114.86		26.00			210.77	90.25	71.01	16.80	388.83	10.73
Academic Expenses: Non Recurring	550.36	275.00		610.22		50.90		15.50	5.63		34.90	52.60		1595.11		19.74	104.00	1718.85	129.63
Administrative and General Expenses										68.20				68.20				68.20	6.09
Repairs & maintenance					212.14				1.03				47.37	260.54	1.50			262.04	83.17
Other Expenses						24.12		70.46					13.81	108.39	221.23			329.62	95.97
TOTAL (B)	550.36	275.00	155.90	610.22	212.14	110.88	416.88	120.01	121.52	68.20	60.90	99.97	13.81	2815.77	443.51	1590.75	372.67	5222.70	467.76
Balance being excess of	13.71	0.00	194.46	441.54	-68.40	283.32	234.72	-6.76	193.84	25.28	199.48	0.52	101.46	1613.18	0.00	0.00	0.00	1613.18	2923.65

(Figures in Lakh)

(Figures in Lakh)

BUDGETED RECEIPTS 2019-20									
Sr. No.	Items	Received in 2014-15	Received in 2015-16	Received in 2016-17	Received in 2017-18	Accumulated as on 31.3.2018	Received During 1-4-2018 to 31-1-2019	Accumulated as on 31-01-2019	Budgeted Receipts for 2019-20
1	TUTION FEE	272.12	152.62	244.25	236.98	775.64	245.67	1021.31	267.03
2	GYMKHANA FEE & GATHERING	15.48	15.29	25.01	33.24	114.25	40.84	155.09	42.65
3	DEVELOPMENT FEE	87.71	138.43	274.59	384.86	1520.59	520.94	2041.53	509.67
4	LABORATORY FEE	37.81	41.65	71.02	101.49	305.77	130.94	436.71	131.41
5	T.P.O	1.90	8.92	14.27	24.49	52.86	28.26	81.12	29.29
6	LIBRARY FEE	16.87	27.88	57.70	85.73	253.67	110.85	364.52	113.43
7	INTERNET FEE	11.99	20.20	41.93	61.98	144.37	79.85	224.22	82.15
8	TESTING & IRG	40.75	32.15	43.56	20.96	143.26	88.55	231.81	97.40
9	EXAMINATION FEE	5.39	14.96	21.32	29.90	66.15	37.74	103.89	42.36
10	HOSTEL	24.03	29.33	44.54	52.73	130.91	53.82	184.73	59.21
11	ISTE	0.83	1.10	2.33	1.14	5.77	1.13	6.90	1.06
12	IDENTITY CARD FEE	0.20	0.38	0.50	0.52	1.39	0.51	1.91	0.56
13	MISC RECEIPTS (L.C. / RENT / OTHER)	17.56	14.21	52.44	36.28	135.52	9.25	144.76	177.80
	TOTAL	532.64	497.12	893.45	1070.29	3650.14	1348.36	4998.50	1554.00

POSITIONS OF DIFFERENT FUNDS 2019-20

Sr. No.	Items	Expenditure <u>2014-15</u>	Expenditure <u>2015-16</u>	Expenditure <u>2016-17</u>	Expenditure <u>2017-18</u>	Balance as on 31-3-2018	Received During 1-4-2018 to 31-1-2019	Expenditure <u>1-4-2018</u> to <u>31-1-2019</u>	Balance as on 31-01-2019	Budgeted accrual during FY2019-20
1	Corpus Fund F1	0.00	0.00	0.49	0.00	630.56	87.46	0.00	718.02	92.24
2	Faculty Development F2	1.38	0.09	0.55	73.96	243.85	91.42	91.80	243.47	91.06
3	Equipment Replacement F3	201.57	81.02	22.54	21.17	338.41	352.59	31.97	659.03	349.88
4	Maintenance F4	78.32	56.66	63.16	98.57	61.61	79.05	77.13	63.53	70.45
5	Institute Development F5	33.63	51.74	13.93	8.74	209.64	104.19	39.40	274.43	101.93
6	Salary F6	37.03	38.02	137.08	109.24	278.92	236.35	139.34	375.93	251.24
	TOTAL	351.93	227.53	237.75	311.68	1762.99	951.07	379.64	2334.42	956.80

Receipts Allocation

TUTION FEE	DEVELOPMENT FEE	LABORATORY FEE	TESTING & IRG
25%	5%		
	15%		15%
	40%	100%	15%
	10%		20%
	20%		
75%	10%		
100%	100%	100%	50%

EXPENDITURE BUDGET 2019-20**STATE GOVERNMENT**

(Figures in Lakh)

Sr.No.	Item	Budget 2018-19	Amount Spent	Budget 2019-20
1	STATE GOVERNMENT PLAN	882.20	0.00	19.74
2	STATE GOVERNMENT NON PLAN	1430.20	1018.75	1571.01
	TOTAL	2312.40	1018.75	1590.75

STATE GOVERNMENT PLAN : DETAILS

Sr.No.	Items	Amount Received	Expenditure during 2018-19	Budget 2019-20
1	Equipment	-	-	14.74
2	Civil Works	-	-	-
3	Library □	-	-	5.00
	TOTAL	-	-	19.74

STATE GOVERNMENT NON PLAN : DETAILS

Sr.No.	ITEMS	Budget 2018-19	Amount Received	Expenditure during 18-19	Budget 2019-20
1	Salary	1,375.00	954.20	954.20	1,500.00
2	Non salary	55.20	-	64.55	71.01
	TOTAL	1,430.20	954.20	1,018.75	1,571.01

FUND WISE EXPENDITURE BUDGET

Sr.No.	Items	Budget 2018-19	Expenditure during 2018-19	Budget 2019-20	Justification
1	Corpus Fund F1	509.25	0.00	825.36	
2	Faculty Development F2	266.15	91.80	155.90	
3	Equipment Replacement F3	382.94	31.97	602.79	
4	Maintenance F4	82.16	77.13	187.48	
5	Institute Development F5	357.98	39.40	86.76	
6	Salary F6	529.46	139.34	416.88	
Total		2127.94	379.64	2275.16	

BUDGET FOR OTHER FEES

Sr. No	Item	Budget 2018-19	Expenditure during 2018-19	Balance Amount as on 31.01.2019	Budget 2019-20
1	Library fee	65.28	34.04	364.52	121.52
2	Gymkhana fee	32.70	3.85	155.09	120.01
3	Internet fee	118.27	2.76	224.22	60.90
4	TPO fee	62.20	6.09	81.12	68.20
5	ISTE fee	1.86		6.90	0.00
6	Examination fee	38.46	26.10	103.89	13.81
TOTAL		318.77	72.84	935.75	384.44

LIBRARY FEE

Sr.No.	ITEMS	Budget 2018-19	Expenditure during 2018-19	Budget 2019-20	Justification
1	Books & Journals	51.25	34.04	15.00	
2	Equipment	4.06		4.50	
3	Furniture	0.00		1.13	
4	Refurbishment/ Non recurring	0.00		0.00	
5	Consumable / Maintenance	9.97		13.13	
6	Library Books, Journals Online, Print	0.00		87.76	
TOTAL		65.28	34.04	121.52	

GYMKHANA FEE

Sr. No.	Item	Budget 2018-19	Expenditure during 2018-19	Budget 2019-20	Justification
1	Gymkhana Activity / Recurring	27.20	3.85	34.05	
2	Refurbishment / Building	0.00		0.00	
3	All Clubs	0.00		70.46	
4	Furniture / Non Recurring	5.50		15.50	
TOTAL		32.70	3.85	120.01	

Direct Central Assistance (MODROB / RPS / FIST) Old

Sr. No.	Items	Budgeted Expenses 2018-19	Expenses 2018-19	Balance up to 31.01.19	Budget 2019-20
1	Civil	26.93	1.50	0.00	16.80
2	IT				
3	Electrical Dept				
4	MCA				
5	Science & Physics Dept				
6	Mathematics				
7	Mechanical Dept				
TOTAL		26.93	1.50	0.00	16.80

AICTE-AQIS 2019-20 PROPOSAL SUBMITTED

Sr. No.	Name of Faculty	AQIS Scheme	Amount
1		New Hostel for Girls (SC/ST) - AICTE	100.00
2		Library Development Fund - AICTE	4.00
3	Dr. S. J. Wagh	MODROB-Network Lab	16.50
4	Dr. S. J. Wagh	FDP	5.50
5	Dr. S. J. Wagh	International Seminar grant	3.00
6	Dr. R. B. Kulkarni	MODROB-Design Lab	19.60
7	Prof. K. N. Tayade	FDP	5.80
8	Prof. B. S. Yelure	FDP	5.60
9	Prof. P. B. Jawade	Seminar Grant	1.00
10	Prof. A. B. Chaudhari	MODROB- Software Engineering Lab	13.87
11	Prof S H Pawar	MODROB-Computer Lab	20.00
12	Prof S K Patil	MODROB-Switch Gear and Protection Lab	20.00
13	Prof P R Jadhav	MODROB-Power system	21.00
14	Dr A T Pise	MODROB-Applied Thermal Engineering	20.00
15	Prof A R Acharya	MODROB-Heat Transfer	20.00
16	Dr S S Mohite	RPS-Computer Aided Fixture Design	25.00
17	Prof A R Acharya	RPS-Microchannel Heat Transfer	25.00
18	Dr A T Pise	FDP-Advanced Computational Fluid Dynamics	7.00
19	Dr S S Mohite	MODROB-Up-gradation of Metallurgy Laboratory & Foundry	18.00
20	Prof U L Deshpande	Unnat Bharat Abhiyan	5.00
TOTAL			355.87

TEQIP III

Sr. No.	Activities	Opening Balance	Amount Received in 18-2019	Expenses 2018-19	Balance as on 28.02.2019	Budget 2019-20
1	Procurement	(2.23)	378.98	306.33	70.42	443.51
2	Assistantships					
3	R & D					
4	FSD					
5	III Cell					
6	Capacity development					
7	Reforms					
8	Student Support					
9	IOC					
	TOTAL	(2.23)	378.98	306.33	70.42	443.51

** TEQIP III Total Expenses Rs. 345.73 (306.33+39.40)

Budget for Interdisciplinary Lab

(Rs. In Lacs)

Physics Lab - Nano Technology Lab

Sr. No.	Proposed Item with specification	Qty. Required	Estimated Unit Rate	Estimate Amount	Justification	Purchase by
1	X ray diffraction spectroscopy	1	25	25.00	For M Tech & Ph.D research work to consultancy work, study experiment for 1st year students	Chemistry dept
2	High performance liquid chromatography	1	9	9.00		
3	Chemical & consumable (for all dept)			2.00		
4	SEM	1	5	5.00	Mechanical Material chemical composition analysis	Mechanical dept
5	Thermal conductivity measurement	1	6	6.00	For M Tech & Ph.D research work to consultancy work, study experiment for 3rd year students	Mechanical dept
Total				47.00		

IT- IOT Lab

Sr. No.	Proposed Item with specification	Qty. Required	Estimated Unit Rate	Estimate Amount	Justification	Purchase by
	IOT Lab Hardware & Software	10 Sets			Core Subject at TE, Skill development & Project work As per curriculum needed in IoT Lab of B.Tech. Also use in Final Year BTech and Mini-Project work	
1	IDE Eclipse, arduino, spider lpython note book, IMU library, BLE library & pattern matching engine library advance machine learning, data analysis & data analytics Gateways, nodes sensors & actuators for all above software & hardware			15.00		ENTC
2	10 PC			7.00		IT
3	Machine learning system IT-hardware softwares			15.00		IT
4	Integrated IoT Kits (Applications in Medical, Agriculture, Environment, Electrical, Automobiles, Home & Industry Automations)	5	4	20.00		IT
Total				57.00		

Robotic Artificial Intelligence (Mechanical)

Sr. No.	Proposed Item with specification	Qty. Required	Estimated Unit Rate	Estimate Amount	Justification	Purchase by
1	Robotic & Mechatronics' Lab (mathematical Molding & Dynamic Simulation) inter disciplinary (All terrain robotic development, surveillance robot, quodcopter imaging & machine learning robot)	Different Experimental setup			Compulsary Subject in the curriculum & to understand real time systems for 3rd year & final year students	ENTC
	20-sim 4.7 or latest professional software	25 users floating	11.00	31.75		
	4 C real time tool chain (for interplacing with hardware peripherals for control look implimantation)	25 users floating	2.50			
	invirted rotatory pendulum control system trainer	Hardware & 2 PC	9.00			
	Hardwar periphla board real time implementation	10 Nos.	6.25			
	Arduiono best hardware	10 Nos.	3.00			
2	Actuators, cylinders, 3/2 ,4/5 operated valves, Wheels, Aluminium Extrusions, Sheets		15.00		5.00	For robotic mechanism actuation
3	Pick & Place robot, Testing robot		3.00	3.00	For understanding of Robotic Mechanism	Mech
4	10 PC, Net		5.00	5.00	For programming, analysis purpose	Transfer from E&TC
Total				44.75		

Incubation Center (IT)

Sr. No.	Proposed Item with specification	Qty. Required	Estimated Unit Rate	Estimate Amount	Justification	Purchase by
1	Furniture tables and other required furniture for the centre		5.00	5.00	To start Incubation centre lab for 24 hr.and help students to start tech innovation companies	IT
2	Canon printer, colour printer		1.75	1.75		
3	All in one printer		0.12	0.12		
4	Computers	6	3.00	3.00		
5	Solder Desol station	2	0.10	0.10		
6	Moniters 24 inches	2	0.24	0.24		
7	Graphyics work station	2	2.50	2.50		
8	Software for verious dept		5.00	5.00		
9	Oscilloscope	2	0.50	0.50		
10	Signal generator	2	0.14	0.14		
11	Power supply	2	0.20	0.20		
Total				18.55		

Virtual Lab (ENTC)

Sr. No.	Proposed Item with specification	Qty. Required	Estimated Unit Rate	Estimate Amount	Justification	Purchase by
1	PC	6	4.20	4.20	Remotely trigged experiment will be conducted by all students of the college in the virtual lab developed by MHRD located at IIT Mumbai & COEP Pune	IT
2	LCD		0.40	0.40		ENTC
3	Furniture		3.00	3.00		ENTC
Total				7.60		

Grand Total

174.90

Budget for Centre of Excellence

(Rs. In Lacs)

Name of Department - Electrical

Sr. No.	Proposed Item with specification	Qty Required	Estimated Unit Rate	Estimate Amount	Justification
1	<p>RTDS(Real time Digital Simulator)The RTDS Simulator consists of custom hardware and all-in-one software, specifically designed to perform real time ElectroMagnetic Transient (EMT) simulations. It operates continuously in real time while providing accurate results over a frequency range from DC to 3 kHz. This range provides a greater depth of analysis than traditional stability or load flow programs which study phenomenon within a very limited frequency range.</p> <p>The RTDS Simulator's fully digital parallel processing hardware is capable of simulating complex networks using a typical time step of 50 μs. The simulator also allows for small timestep subnetworks that operate with timesteps in the range of 1-4 μs for simulation of fast switching power electronic devices (e.g. VSC bridges with PWM switching). The hardware is bundled into modular units called racks that allow easy expansion of the Simulator's computing capability as required.RTDS Technologies' proprietary software, designed specifically for interfacing to the RTDS Simulator hardware, is called RSCAD®. RSCAD is a user-friendly interface, intended to create a working environment familiar to the power system engineer.</p> <p>RSCAD is an all-in-one package, containing all facilities that the user needs to prepare and run simulations, and to view and analyze results. This eliminates the need for third-party products. RSCAD is provided with a site license, which means that an unlimited number of users can use it at a given site—there is no per-seat fee.</p>	1	50	50.00	<p>For Center of Excellence. Proposed For PhD as well as Mtech Students. (Total costing of CoE is Rs. 200.00 Lac out of which Rs. 50.0 Lac will be spend on procurement of OPEL RT Hardware to make HLL experiments on Power System)</p>
Total				50.00	

Grand Total

50.00

State Government Plan : Equipment

List of Equipment to be Purchased

Name of Department - Mechanical Engineering

Sr. No	Proposed Items with specification	Quantity Required	Esti.Unit Rate	Estimated Amount	Justification
1	Air conditioning test rig	1	1.10	1.10	As per syllabus required
	TOTAL	1	1.10	1.10	

Name of Department - Information Technology (IT)

Sr. No	Proposed Items with specification	Quantity Required	Esti.Unit Rate	Estimated Amount	Justification
1	Desktop Computers (Inteli5, 8 GB RAM, 1TB HDD, DVD R/W drive, 18 Monitor, Optical mouse, keyboard)	20	0.50	10.00	To perform Practical
	TOTAL	20	0.50	10.00	

Name of Department - Master of Computer Application (MCA)

Sr. No	Proposed Items with specification	Quantity Required	Esti.Unit Rate	Estimated Amount	Justification
1	Digital Rolling Display boards	5	0.5	2.50	for display of graphics ,web pages and advertisement creations
	TOTAL	5	0.5	2.50	

Name of Department - Physics

Sr. No	Proposed Items with specification	Quantity Required	Esti.Unit Rate	Estimated Amount	Justification
1	Resistivity of Semiconductors by Four Probe Method (Different Temperatures Determination of the Band-gap, (Advance Model, oven arrangement, Ge crystal, Teflon bush, Learning CD)	2	0.32	0.64	For First year B.Tech. Practicals
2	e/m Experimental Kit – Thomson’s Method (microcontroller based power supply instrument for CRT,LCD ,acrylic stand,deflection magnetometer and learning CD)	2.00	0.25	0.50	For First year B.Tech. Practicals
	TOTAL	4.00	0.57	1.14	

Grand Total

14.74

State Government Plan : Library

Sr. No.	Particulars	Budget 2018-19	Amount Received	Expenditure	Proposed Budget 2019-20
1	Development of Library	-	-	-	3.00
2	Book Bank	-	-	-	2.00
3	Book Bank (SWBC)	-	-	-	0.00
	TOTAL	-	-	-	5.00

State Government Non Plan

Sr. No.	Component	Budget 2018-19	Receipts	Expenditure up to 31.01.2019	Proposed Budget 2019-20
1	Salary	1375.00	954.2	954.2	1,500.00
2	Travelling Expenses	5.00	-	7.35	8.09
3	Electric & Telephone & Water, Taxes	50.20	-	57.20	62.92
	TOTAL	1430.20	954.2	1018.75	1,571.01

5. Institute Level Funds:

a. Corpus Fund

Sr. No.	Name of building	Details	Proposed Budget 2019-20	Justification
1	Extension (First floor) of PG Hostel	205.36 Sqm	16.00	Additional accommodation created for proposed two new PG courses
2	Extension Concrete Technology Lab (G+1) (75%)	115.33 Sqm	21.38	Payment for 75% work in progress
3	Extension (First floor) of Jijau mess	269.90 Sqm	59.98	Recreation hall for girls students
4	Extension of Automobile lab	308.50 Sqm	65.00	To accommodate moderation of the lab
5	Extension (First floor) of C hostel mess	269.89 Sqm	59.00	Extension of existing mess to fulfill additional requirement
6	Students Activity center - Phase I	As per plan	92.00	Student center activity like Gymkhana, Swimming pool etc.
7	Architect fee	As per plan	35.00	Fee to be paid to the consultants appointed for Library & ENTC buildings
8	Extension of Dean Academies		85.00	Existing dean academics office is of less area hence provision for additional requirement like assessment center
9	Auditorium lift, staircase, door etc.		10.00	To provision for emergency exit and guest entry
10	SC/ST Hostel		275.00	Existing girls hostel capacity is less so additional accommodation and SC/ST girls students facility to be provided
11	Workshop valley gutters, sheets		18.00	Leakage through existing valley gutters and hence needs to be replaced, existing north light sheets have lost transparency hence needs to be replaced
12	Civil Shed		10.00	Provision for tilting flume equipment
13	Parking shed		5.00	Existing parking facility is insufficient hence additional provision made as per requirement
14	Electrical lab	150.00 Sqm	30.00	Extension of electrical laboratory as per requirement

15	Mezzanine floor for workshop store	84.00 Sqm	10.00	To accommodate additional material to be store in workshop
16	Fencing for store of write off material of Institute behind the workshop		5.00	To store write off material under key and lock
17	Maintenance of black topped roads in campus of the institute		3.00	Filling of pot holes, painting of road marking providing sign boards
18	Replacing of tiles in ground floor of Civil department corridor, classrooms, laboratories, etc.		10.00	The flooring in Civil department ground floor is damaged, requires to be replaced
19	Repairs to gutters, roof of main building		3.00	Existing gutters required cleaning and replacing
20	Providing alluminium partations, sliding windows etc		5.00	Providing aluminum partitions and sliding windows to various department as per requirement
21	Removing tiles, Fixing of sheets and Ridge, Refixing of tiles on Classroom No. 8 & 9		4.00	Due to heavy leakage from last 3 years it's necessary to do it on very urgent basis
22	Synthetic Net Fencing for Basketball Ground		4.00	To protect basket ball ground, to make convenient during playing, as per demand from student
TOTAL			825.36	

Institute Level Fund - Staff Development Fund (F2)

(Figures in Lakh)

Name of Department - Civil

Organizing STTP/ conferences/ qualification up gradation (Rs 1.5 lacs per STTP & Rs 4 lacs per National conference & Rs 6 lacs per International conference)

Civil

Sr. No.	Title of Conference/ STTP	Coordinator	Tentative Schedule	No of participants	Total Cost
1	One week STTP on "recent trends in construction industry"	S. V. Joshi	Dec-19	40	1.50
Total					1.50

Deputation of Faculty/ Staff for Training, workshops and Conferences as per TNA only in accredited colleges/ NIT/ IIT/ reputed Industries (preferably in vacation)

Sr. No.	Name of Faculty/ Staff	Title of Conferences/ STTP	Tentative Schedule	Name of Institute/ Industry	Approximate Expenditure
1	Atlest one STTP by each faculty	As per availability	May/Dec-2019	Any of the Reputed Institutes	1.00
2	Atlest one conference by each faculty	As per availability	May/Dec-2019	Any of the Reputed Institutes	1.00
Total					2.00

Deputation for conferences within/ outside the country for paper presentation as per TNA only in accredited colleges/

Sr. No.	Name of Faculty/ Staff	Title of Conferences	Tentative Schedule	Name of Institute/ Industry	Approximate Expenditure
1	One conference by each faculty	As per availability	May/Dec-19	Any of the reputed institutes	1.00
Total					1.00

Best project Award

Sr. No.	Year	Estimated Amount
1	FY B.Tech	0.02
2	SY B.Tech	0.02
3	TY B.Tech	0.02
4	Final B. Tech	0.02
Total		0.08

R & D Proposals for the year 2019-20

Consumable/ spares			
Sr. No.	Details of consumable/ spare	Quantity	Cost in Lacs
1	UG Project components		0.25
2	PG Project components		0.40
Total			0.65

Grants for UG/PG projects, minor/ major projects etc.				
Sr. No	Name of UG/ PG program	Finance per batch	No. of UG/ PG batches needing finance	Total
				(Figures in Lakh)
1	For UG Projects	20,000 per group	As per the requirement of	2.40
2	For PG Projects	20,000 per project	As per the requirement of students	3.60
			Total	6.00

Grand Total of Civil	11.23
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Name of Department - Mechanical
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Organizing STTP/ conferences/ qualification up gradation (Rs 1.5 lacs per STTP & Rs 4 lacs per National conference & Rs 6 lacs per International conference)					
Sr. No.	Title of Conference/ STTP	Coordinator	Tentative Schedule	No of participants	Total Cost
1	Mechanical And IOT	Dr. S. P. Deshmukh		40	2.00
2	Application of MATLAB in Engg	V. S. Jadhav		40	2.00
3	Advanced FEM	Abhinandan Zha		40	2.00
4	Digital Manufacturing and 3D printing	M. H. Yadav		40	2.00
5	Micro- and Non- Conventional Machining	G.S.Dhende		40	2.00
Total					10.00

Deputation of Faculty/ Staff for Training, workshops and Conferences as per TNA only in accredited colleges/ NIT/ IIT/ reputed Industries (preferably in vacation)					
Sr. No.	Name of Faculty/ Staff	Title of Conferences/ STTP	Tentative Schedule	Name of Institute/ Industry	Approximate Expenditure
1	Dr. A T Pise		43770	IIT /NIT	0.40
2	Dr. R. K. Shrivastava		May/June 2019	IIT /NIT	0.40
3	Dr. S. P. Deshmukh		43818	IIT /NIT	0.40
4	Dr. U. V. Pise		43818	IIT /NIT	0.40
5	Prof. V. S. Jadhav		43818	IIT /NIT	0.40
6	Dr. A. R. Acharya		43770	IIT /NIT	0.40
7	Prof. N. V. Sali		43818	IIT /NIT	0.40
8	Prof.M. H. Yadav		43770	IIT /NIT	0.40
9	Prof. K. S. Gharge		May/June 2019	IIT /NIT	0.40
10	Prof. V.B Raka		43818	IIT /NIT	0.40
11	Prof. G. S. Dhende		43818	IIT /NIT	0.40
12	Prof. S. S. Jadhav		43770	IIT /NIT	0.40
13	Prof. S. H. Patil		43818	IIT /NIT	0.40
Total					5.20

Sr.No	Name of Award	Proposed Expenditure in lacs
1	Star Performer Of 3 Faculty per faculty	0.4
2	Best Supporting Staff	0.2
Total		1.4

Faculty exchange, twinning/ networking				
Sr. No.	Activity for Faculty exchange, twinning/ networking	Purpose	Expected Outcomes	Proposed expenditure
1	Expert lecture at RECA	Interaction	student learning	3.50
2	colabrative project	Development of mentee	Enhanced Research	5.00
Total				8.50

R &D proposals for the year 2019-20			
Consumable/ spares			
Sr No.	Details of consumable/ spare	Quantity	Cost in Lacs
1	Ph D.	3	2.25
Total			2.25

Deputation for conferences within/ outside the country for paper presentation as per TNA only in accredited colleges/ NIT/ IIT/ reputed Industries					
Sr. No.	Name of Faculty/ Staff	Title of Conferences	Tentative Schedule	Name of Institute/ Industry	Approximate Expenditure
1	Dr. A T Pise				0.20
2	Dr. R. K. Shrivastava			International Travel	1.00
3	Dr. S. P. Deshmukh				0.20
4	Dr. U. V. Pise				0.20
5	Prof. V. S. Jadhav				0.20
6	Dr. A. R. Acharya				0.20
7	Prof. N. V. Sali				0.20
8	Prof.M. H. Yadav			International Travel	1.00
9	Prof. K. S. Gharge				0.20
10	Prof. V.B Raka				0.20
11	Prof. G. S. Dhende				0.20
12	Prof. S. S. Jadhav				0.20
13	Prof. S. H. Patil				0.20
Total					4.20

Best project award		
Sr. No.	Year	Estimated Amount
1	Final B. Tech	0.10
Total		0.10

Details of teaching assistantships for the year 2019-20					
Sr. No.	Class	No. of students	Activity to be assigned	Assistantship Amount	No. of Months
1	FY M Tech	2	Academic	Rs. 8000/- per month	0.8
2	SY M Tech	2	Academic		0.8
Total					1.6

Grants for UG/PG projects, minor/ major projects etc.				
Sr. No	Name of UG/ PG program	Finance per batch	No. of UG/ PG batches needing finance	Total
				(Rs. in lacs)
1	B Tech Major Project	18	20	3.60
2	M Tech Dissertation	33	50	16.50
3	TY minor project	18	20	1.80
Total				21.90

Grand Total of Mechanical	55.15
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Name of Department - Electrical

Grants for UG/PG projects, minor/ major projects etc.

Sr. No	Name of UG/ PG program	Finance per batch	No. of UG/ PG batches needing finance	Total
1	TY B.Tech.(Mini project)	5000	35	1.75
2	Final B.Tech.(Project)	25000	20	5.00
3	M. Tech.	50000	20	10.00
			Total	16.75

Grand Total of Electrical

16.75

Name of Department - Information Technology

Organizing STTP/ conferences/ qualification up gradation

(Rs 1.5 lacs per STTP & Rs 4 lacs per National conference & Rs 6 lacs per International conference)

Sr. No.	Title of Conference/ STTP	Coordinator	Tentative Schedule	No of participants	Total Cost
1	STTP on	Dr. R. B. Kulkarni	Dec-19	40	2.00
2	STTP on	Prof. P. B. Jawade	May-19	40	2.00
	Total				4.00

Deputation of Faculty/ Staff for Training, workshops and Conferences as per TNA only in accredited colleges/ NIT/ IIT/ reputed Industries (preferably in vacation)

Information Technology					
Sr. No.	Name of Faculty/ Staff	Title of Conferences/ STTP	Tentative Schedule	Name of Institute/ Industry	Approximate Expenditure
1	Dr. S J Wagh		May-June 2019, Dec-2019	IIT/NIT/ Govt. Engg College	0.50
2	Dr. R B Kulkarni		May-June 2019, Dec-2019	IIT/NIT/ Govt. Engg College	0.50
3	Prof. N M Mule		May-June 2019, Dec-2019	IIT/NIT/ Govt. Engg College	0.35
4	Prof. Y. D Chavhan		May-June 2019, Dec-2019	IIT/NIT/ Govt. Engg College	0.35
5	Prof. B S Yelure		May-June 2019, Dec-2019	IIT/NIT/ Govt. Engg College	0.35
6	Prof. R. S. Mawale		May-June 2019, Dec-2019	IIT/NIT/ Govt. Engg College	0.35
7	Prof. A B Chaudhari		May-June 2019, Dec-2019	IIT/NIT/ Govt. Engg College	0.35
8	Prof. P B Jawade		May-June 2019, Dec-2019	IIT/NIT/ Govt. Engg College	0.35
9	Prof. N R Shetty		May-June 2019, Dec-2019	IIT/NIT/ Govt. Engg College	0.35
10	Prof. C V Andhare		May-June 2019, Dec-2019	IIT/NIT/ Govt. Engg College	0.35
	Total				3.80

Deputation for Qualification up gradation				
Sr No.	Name of Faculty/ Staff	Qualification	University/ Institute for deputation	Total fees for 2017-18
1	Prof. Y D Chavhan	PhD	In process	1.00
2	Prof. C. V. Andhare	PhD	In process	1.00
3	Prof. N. M. Mule	PhD	In process	1.00
4	Prof. P B Jawade	PhD	In process	1.00
Total				4.00

Faculty Award		
Information Technology		
Sr. No.	Name of Award	Proposed expenditure in lacs
1	Best Faculty Award	0.50
Total		0.50

R &D proposals for the year 2019-20				
Consumable/ spares				
Sr No.	Details of consumable/ spare	Quantity	Cost in Lacs	Justification
1	Mongo DB and Server: Primary / Secondary Nodes PowerEdge R620 PowerEdge R220 Processor (2) Intel Xeon E5-2643 v2 3.5GHz, 6-core (1) Intel Xeon E3-1220 v3 3.1GHz, 4-core Memory 256GB, Local Storage 146GB 15K SAS 800GB, Storage Controller PERC H710P PERC H310 Networking.	1	20.00	To setup National Database of Engineers in India. To study NoSQL databases which is useful for students to get job.
Total			20.00	

Deputation for conferences within/ outside the country for paper presentation as per TNA only in accredited colleges/ NIT/ IIT/ reputed Industries					
Sr. No.	Name of Faculty/ Staff	Title of Conferences	Tentative Schedule	Name of Institute/ Industry	Approximate Expenditure
1	Dr. S J Wagh	WSN, IoT, Internet Technology	As per availability	As per TNA	0.50
2	Dr. R B Kulkarni	Cloud , IoT	As per availability	As per TNA	0.50
3	Prof. N M Mule	Security, Image processing	As per availability	As per TNA	0.50
4	Prof. Y D Chavhan	Image processing	As per availability	As per TNA	0.50
5	Prof. B S Yelure	Wireless Adhoc Network	As per availability	As per TNA	0.50
6	Prof. R. S. Mawale	Machine Learning, IoT, Cloud	As per availability	As per TNA	0.50
7	Prof. A B Chaudhari	Data Analytics	As per availability	As per TNA	0.50
8	Prof. P B Jawade	DBMS	As per availability	As per TNA	0.50
9	Prof. N R Shetty	Cloud, Network Security	As per availability	As per TNA	0.50
10	Prof. C V Andhare	Image processing, Security	As per availability	As per TNA	0.50
Total					5.00

Best Project Award		
Sr. No.	Year	Estimated Amount
1	FY BTech	0.10
2	SY BTech	0.10
3	TY BTech	0.10
4	Final BTech	0.20
Total		0.50

Details of teaching assistantships for the year 2019-20						
Sr. No.	Class	No. of students	Activity to be assigned	Assistantship Amount	No. of Months	Total in Lacs
1	FY MTech	6	Academic Load	Rs 8000/-	12	5.76
Total						5.76

Grants for UG/PG projects, minor/ major projects etc.				
Sr. No	Name of UG/ PG program	Finance per batch	No. of UG/ PG batches needing	Total
1	Information Technology UG	0.2	30	6.00
Total				6.00

Grand Total of Information Technology	49.56
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Name of Department - MCA

Organizing STTP/ conferences/ qualification up gradation (Rs 1.5 lacs per STTP & Rs 4 lacs per National conference & Rs 6 lacs per International conference)					
Sr. No.	Title of Conference/ STTP	Coordinator	Tentative Schedule	No of participants	Total Cost
1	STTP on Computer Vision, Image analysis and Signal Processing	Prof. M. D. Malkauthekar	October - November - 2019	40	2.00
2	National Conference on ICT and E-Governance	Prof. L. L. Kumarwad Prof. B.S. Patil	Dec-19	250	4.00
3	National Conference on ICT and E-Governance	Prof. P.P. Shinde	Jan-19	100	4.00
Total					10.00

Deputation of Faculty/ Staff for Training, workshops and Conferences as per TNA only in accredited colleges/ NIT/ IIT/ reputed Industries (preferably in vacation)					
Sr. No.	Name of Faculty/ Staff	Title of Conferences/ STTP	Tentative Schedule	Name of Institute/ Industry	Approximate Expenditure
1	Prof. B. S. Patil	Conferences/ STTP	April-2019 to March 2020	Reputed Industry/ Institute	0.20
2	Prof. M. D. Malkauthekar	Conferences/ STTP	April-2019 to March 2020	Reputed Industry/ Institute	0.20
3	Prof. L. L. Kumarwad	Conferences/ STTP	April-2019 to March 2020	Reputed Industry/ Institute	0.20
4	Prof. P. P. Shinde	Conferences/ STTP	April-2019 to March 2020	Reputed Industry/ Institute	0.20
Total					0.80

Deputation for Qualification up gradation				
Sr No.	Name of Faculty/ Staff	Qualification	University/ Institute for deputation	Total fees for 2017-18
1	Prof. M. D. Malkauthekar	Ph.D	SRTM University, Nanded	0.25
2	Prof. L. L. Kumarwad	Ph.D	Shivaji University	0.08
3	Prof. P. P. Shinde	Ph.D	Shivaji University	0.18
Total				0.51

Faculty exchange, twinning/ networking				
Sr. No.	Activity for Faculty exchange, twinning/ networking	Purpose	Expected Outcomes	Proposed expenditure
1	ITES/ICT	to study different projects on E-Governance Area	Digitization, projects for students, and service to society	1.00
2	E-Governance	to study different projects on E-Governance Area	Digitization, projects for students, and service to society	1.00
3	Soft Computing	to study different projects on Soft Computing Area	Digitization, projects for students, and service to society	1.00
Total				3.00

Grand Total of MCA	14.31
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Name of Department - Workshop

Deputation of Faculty/ Staff for Training, workshops and Conferences as per TNA only in accredited colleges/ NIT/ IIT/ reputed Industries (preferably in vacation)					
Sr. No.	Name of Faculty/ Staff	Title of Conferences/ STTP	Tentative Schedule	Name of Institute/ Industry	Approximate Expenditure
1	Workshop Instructor/ staff Training		May/Dec 2019	IGTR Aurangabad	5.00
2	Storekeeper Training		May/Dec 2019	Bhopal	1.00
Total					6.00

Grand Total Workshop	6.00
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Name of Department - Physics

Organizing STTP/ conferences/ qualification up gradation (Rs 1.5 lacs per STTP & Rs 4 lacs per National conference &					
Sr. No.	Title of Conference/ STTP	Coordinator	Tentative Schedule	No of participants	Total Cost
1	Recent Trends in Nanomaterials for Engineering and Technology	Dr. S. A. Patil	43800	30	1.5
Total					1.50

Deputation of Faculty/ Staff for Training, workshops and Conferences as per TNA only in accredited colleges/ NIT/ IIT/					
Sr. No.	Name of Faculty/ Staff	Title of Conferences/ STTP	Tentative Schedule	Name of Institute/ Industry	Approximate Expenditure
1	Dr. S. A. Patil	National /International Conferences STTP/FDP/workshop	May and Dec.2019	University/II T/NIT	0.30
2	Visiting Faculty	National /International Conferences STTP/FDP/workshop	May and Dec.2019	University/II T/NIT	0.20
Total					0.50

Grand Total Physics	2.00
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Name of Department - Maths

Deputation of Faculty/ Staff for Training, workshops and Conferences as per TNA only in accredited colleges/ NIT/ IIT/ reputed Industries (preferably in vacation)					
Sr. No.	Name of Faculty/ Staff	Title of Conferences/ STTP	Tentative Schedule	Name of Institute/ Industry	Approximate Expenditure
1	Dr. V. S. Patil			IIT/NIT	0.50
2	Prof. S. M. Shinde			IIT/NIT	0.20
3	Prof. U. V. Kanade			IIT/NIT	0.20
Total					0.90

Grand Total Maths	0.90
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Grand Total Of All Departments	155.90
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Institute Level Fund - Equipment Replacement

(Figures in Lakh)

A. Equipment Replacement Fund : (For Equipment)

Name of Department - Civil Engineering

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	30 m measuring tape - Application: Land Survey, Length: 30 Meters, Surface Finish: Metal, Measuring Range 30 Meters, Usage/Application Civil Survey or Land Survey, Weight 4.5 Kg	12	0.01	0.12	For First year, Second Year Survey Practicals
2	100 m measuring tape - Type of material- fiber designs, dimensional accuracy and excellent corrosion resistance. High tensile strength, Weld consistency, Durability, Responsive to rigorous fabrication, Corrosion resistance, Excellent finish, long functional life, High bonding strength and Heat resistance.	12	0.02	0.24	For Second year practicals, consultancy purpose
3	GPS surveying instrument - Inbuilt GPRS/GSM Module Inbuilt Double Batteries Double batteries (8800mAh totally) that can last up to 15-20 hours (in full charge) provides almost continuous operation in 2-3 working days. Inbuilt Radio Transmitter- The 0.5-2W (adjustable) transmitting radio module equipped inside is a distinctive feature. Within the effective working range (3-5km typical, 8-10km optimal), external battery is not necessary.	2	2.51	5.02	for upgradation of students field knowledge
4	Digital Penitrometer - Penetration Range: 0-62.0mm (0-620 penetration scale) in 1/10mm or 1/100mm, Penetration Interval: Operator variable from 0.1 to 9999.9 seconds with automatic repeat function and 5.0 second default Electrical Requirements: 115V 60Hz , 220-240V 50/60Hz	1	0.25	0.25	For practicals, consultancy purpose

5	Redwoods Viscometer - Must consists- One Red Wood No.1 cup and One Red Wood No. 2 cup are installed in the bath. The bath is made from S.S. Sheet The temperature is Controlled by Electronic Digital Temperature Controller. The Stirring is done by FHP electric motor in the heating compartment The unit has 2 sets of Oil Cup covers, thermometer Clips and ball valve.Suitable to operate on 220 volts AC Circuits.	1	0.15	0.15	For practicals, consultancy purpose
6	Electronic weighing balance- Can weight upto 20 kg. 1 year Warranty , Accuracy-2gm	1	0.05	0.05	Wighing balance upto 20kg is required for measurements and for consultancy purpose.
7	Falling head permeability apparatus- The equipment must consist one each : - Gun metal mould - 100mm I.D. x 127.3mm high x 1000ml Volume. - Gun metal mould extension collar - 100mm dia x 60mm high for the above mould. - Gun metal drainage base plate with a recess for a porous stone, GI Tank. Automation Grade Semi-Automatic, Weight 3.2 kg Max water leakage 100 Kpa Pressure resistant performance 200 kpa	1	0.35	0.35	For practicals, consultancy purpose
8	Proctor needle - Surface finish- Hardness Size- OD1.5mm or custom Material - Stainless steel ,steel	1	0.04	0.04	For practical purpose need to purchase new needle
9	Purchasing of 4 monitors (only desktop monitors)	4	0.07	0.28	New monitors are required for practical, PG lab purpose (as few are not in working condition)
10	Hydraulic tilting flume - 8m A 76mm wide, 250mm high open channel. A jacking system permits the slope of the channel bed to be adjusted between -1% and +3%. Sump tank capacity: 250 litres (S. S.) Volumetric tank capacity: 40 litres (GRP) Include a Venturi flume, sharp and broad crested weirs, 2 vernier level gauges, Pump: Submersible type Motor:0.55kW split capacitor start with built in overload protection, Speed 2800rpm Flowmeter: Shunt orifice type range 0.5 to 2.5 litres/sec Vernier level:- 1 x 150mm resolution 0.1mm Gauges: 2 x 300mm resolution 0.1mm. Overall dimensions 5.4m (L) x 0.62m (W) x 1.46m (H)	1	9.00	9.00	For UG practicals

11	<p>Ultrasonic flow meter-</p> <p>Measuring principle: Hybrid, user selectable ultrasonic Doppler or transit time via pipe mounted transducers</p> <p>Condition of flow: Full pipe within the minimum and maximum velocity specifications</p> <p>Liquid types: Virtually any acoustically conductive fluid</p> <p>Transit time mode: from 0% to 10% (0 to 100,000 ppm) particulate</p> <p>Doppler mode: from 0.02% to 15% (200 to 150,000 ppm) of 50 micron particulate</p> <p>Nominal pipe sizes: 0.5 inch - 100 inch (12.7 mm to 2540 mm)</p> <p>Pipe materials: Most metal and plastic pipes</p> <p>Pipe liner materials: Most plastic liners</p> <p>Liquid velocity range: 0.25 to 30 f/s (0.08 to 9 m/s)</p> <p>Flow Sensitivity: 0.001 ft/s (0.0003 m/s)</p> <p>Accuracy:</p> <p>Transit Time accuracy at nominal pipe sizes</p> <p>5.0 seconds: +1% of rate >1 ft/s and +0.01 ft/s <1 ft/s</p> <p>1.0 seconds: +1% of rate >5 ft/s and</p>	1	1.50	1.50	For UG & PG practicals, project work
12	<p>Jar Test apparatus-</p> <p>RPM: Variable from 5 to 150 rpm's with accuracy of +/- 1 rpm</p> <p>Timer: 100 Hrs</p> <p>Display: 16 x 2 LCD</p> <p>Jar: for 1000 ml x 6 nos</p> <p>Paddles: stirring paddles made of s. S. - 6 nos</p> <p>Illumination: fluorescent white light</p> <p>Dimension: 930mm(l) x 250mm(b) x 480mm(h)</p>	1	0.25	0.25	For UG practicals
13	<p>Direct Shear test (Electronic)</p> <p>Specifications:</p> <p>Mode of Digital Display The decimal display point is positioned by the channel selector switch,</p> <p>Power- 220V±10% mains, 50Hz, Single Ph. AC Supply</p> <p>No. of channels 3</p> <p>Parameter display By a selector switch</p> <p>Capacity - 2 kN (200 Kgf) Universal Type, TCPR. with 3 meter long cable without hooks</p> <p>Sensing element Strain Gauges in full bridge configuration</p> <p>Displacement Sensor 2 Nos.</p> <p>Range ± 20 mm. Displacement sensor with 3 metre long cable</p>	1	1.60	1.60	For practicals, consultancy purpose
Total		39	15.80	18.85	

Name of Department - Mechanical Engineering

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Computerised Aeronautical Gas Turbine Test Rig.	1	1.9	1.90	Applied Thermodynamics Lab
2	5 KVA UPS	1	1.50	1.50	CAD/CAM Lab
3	Fire Extinguisher	6	0.15	0.90	For Safety
4	Pin fin Experiment la set up	1	0.6	0.60	Heat Transfer Lab
5	Computers in CIM Lab	4	0.7	2.80	Old computer are to be written off
6	Computer	2	0.30	0.60	Faculty Cabin in MESA
7	Printer	2	0.05	0.10	
8	1.5 tons split air conditioner	5	0.4	2.00	EDM , Spark Spectrometer, CNC machines in CIM Lab
9	Water pump	1	1.2	1.20	Research Proposal of flow measuring system
10	Coriolis Flowmeter with fullscale accuracy along with SMPS and connector	1	5	5.00	
11	Mitsubishi type flow conditioner	1	0.8	0.80	
12	Bluff bodies	36	300	0.11	
13	DSLR camera	1	0.55	0.55	
14	CRDI Open ECU with EGR Functionality for exciting single cylinder multifuel VCR engine	1 Set	6.8	6.80	IC Engine Lab
15	Elliptical Trammell, scotch yoke Mechanism, with worth quick return Mechanism, Pendulum pump	1 Each	0.5	0.50	TOM Lab
16	CUT PRO -V9	1	1.00	1.00	CIM lab
17	Robotics & AI ,COE (Inter disciplinary)			-	Enhance Employability
18	IOT (Inter disciplinary)				
19	Teaching aids, equipments Four ball Tester, Tribology Tester Exp. Stream Analyser software tools, charts, models and other such items as per new curriculum, ,CBCS implementation, etc				Items as per new curriculum, proposed PG-Design course, - CBCS implementation
	Total	63	321.45	26.36	

Name of Department - Electrical Engineering

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	1)Single Ch Power meter Single CH Power Meter Basic Accuracy - +/- 0.1 % rdg PC Interface with PC Software for data logging D to A output Facility required LAN & RS-232 Interface facility required.	1	1.85	1.85	Necessity of modernisation of Measurement lab.
2	Three Ch Power Meter , Three CH Power Meter Basic Accuracy - +/- 0.1 % rdg PC Interface with PC Software for data logging D to A output Facility required LAN & RS-232 Interface facility required.	1	4	4.00	Necessity of modernisation of Measurement lab.
3	Clamp On Earth tester, Clamp Type Earth Measurement Earth resistance measurement – 0.02Ohm to1600 Ohm Accuracy - +/- 1.5 %rdg Leakage Current – 1.00 mA to 60.0 Amp Display – 4 Digit & Auto Range	1	0.90	0.90	Necessity of modernisation of Measurement lab.
4	5 KV Insulation Tester, Test Voltage – 250 TO 5000 V Test Insulation resistance Range - upto10 TeraOhm Leakage Current Measurement & display . PI & DAR measurement display Voltage measurement – 750 V AC/DC Backlight function Accuracy – 5 %& Portable Battery Operated Data Memory With PC software Supplied with test lead set & batteries & Hard Case	1	1.90	1.90	Necessity of modernisation of Measurement lab.

5	<p>1000 Amp Current Measurement , Compact light Weight Clamp Meter 1000 Amp AC True RMS current Measurement Accuracy – 1.5% rdg Voltage – 600 V AC / DC Resistance & Continuity measurement facility Core Jaw diameter- 33mm DIA Display Refresh Rate – 400 mS . With Extra Current Flexi Sensor – 4200 AC amp measurement - DIA 130 mm Supplied with test Lead & Carrying Case, With CT6280 4300 Flexi Current Measurement</p>	1	0.20	0.20	Necessity of modernisation of Measurement lab.
6	<p>Leakage Current Tester, Leakage Current Measurement AC amp - 10.0 mA to 200.0 Amp Accuracy – 1 % rdg Freq – 100 to 1000 Hz 10 micro Amp resolution . Core Dia – 40 mm DIA</p>	1	0.50	0.50	Necessity of modernisation of Measurement lab.
7	<p>Phase Sequence Meter, Non Metallic Contact Type Measurement - 90 to 520 V AC Accuracy 2% Digital reading Display</p>	15	0.02	0.30	
8	<p>10 CH , Data Logger , ten electrically isolated analog input channels Fastest Sampling 10 mS per Ch Display – 4.3 inch TFT Color Display . I/P Type - DC V upto 60 V , Thermocouple 8 Types , 4 to 20 mA , Pulse I/P Trigger Function – External Trigger , Level & window Alarm Output Facility & Scaling Function required Memory - CF Card 1 GB & USB Memory PC Software along with Data logger Portable Light Weight & Battery & Mains Operated</p>	1	1.70	1.70	Necessity of modernisation of Measurement lab.

9	<p>Portable Universal Calibrator</p> <ul style="list-style-type: none"> • Pressure generation capacity -1 bar to 100 Bar Pneumatically • HART Configurator Facility . • Simulation/sourcing of current 0 to 24 mA (internal loop power) • Simulation/sourcing of DC voltage 24V for loop supply. • Portable to handheld type carry in field. • Display: LED/LCD type • Engineering units: Multiple pressure units suitable to measure pressure • Range & Accuracy: Current Source – Range 0 to 24.000mA - Accuracy -0.02% rdg + 2 counts • Current Measurement - Range 0 to 55.000mA - Accuracy – 0.02% rdg + 3 Counts • DC mV – Source & Measurement – Range – 0 to 120.00mV – Accuracy – 0.02%rdg +2 counts • DC Voltage – Source – Range – 0 to 12.000V - Accuracy – 0.02% rdg + 2 Count • DC Voltage – Measurement – Range – 0 to 	1	11.50	11.50	For Testing & consultancy
10	<p>Three Phase Portable Phase Power Quality Analyzer ,</p> <ul style="list-style-type: none"> • Differential Voltage Input Range: 0 to 600V • 0-5000 A with current clamps • Freq- 50 Hz / 60 Hz / 400 Hz • Offered instrument should comply to IEC 61000-4-30 Class A Voltage – 0.1 % rdg. + 0.1% f.s. Current – 0.2% rdg. + 0.1% f.s. Power - 0.2% rdg. + 0.1% f.s. • Sampling - 200KHz or better • Instrument shall detect up to 50th harmonic and as well as display THD value in accordance with IEC 61000-4-7 • Sag , Swell & Flicker measurement • Individual Harmonics of voltage and current, Total Harmonic Distortion(THD), k-Factor, • Inter-Harmonic Measurement • Should have TFT LCD colored display of 6.5” or large. • instrument shall be able to detect transients of 0.5 micro-sec • Recording Interval - At least 1 sec • PC Interface - USB, LAN and RS232 • card slot shall be available with a provision to store at least 15 days of measured data at 10kHz sampling frequency with recording interval of 5 	1	6.50	6.50	For Testing & consultancy

11	Computer I5, 8GB RAM, 1TB HDD	15	0.50	7.50	<ul style="list-style-type: none"> • 8 courses in the curriculum offer computer based lab work(practicals). • 50% of the computers are more than 7 years old. • More no of teaching & non teaching staff appointed. Computer has to be given to them.
12	Printer Mono B/W 15 to 20 PPM, Laser Jet	2	0.10	0.20	<ul style="list-style-type: none"> • More printers needed for academic & official work • More no of teaching & non teaching staff appointed. Computer/ printer needs to be given to them.
13	LCD Projector Resolution :XGA, 1024 × 768, 4:3 Lens:1.58-1.72, Projection Ratio:1.48-1.77:1	2	0.40	0.80	<ul style="list-style-type: none"> • Projector required for PG class room. • Additional projectors required for presentation at HOD cabin and computer lab for seminar/ M.Tech Via-va
14	UPS, 5 KVA, single phase	1	1.50	1.50	<ul style="list-style-type: none"> • Computer lab needs to be connected through UPS to safeguard computers.
15	Three Wheeler Auto Electric Vehical using BLDC, P.M.S.M. & S.R.M. motor demo setup model	1	6.00	-	B.tech final Year , M.Tech - Project work and Research work
16	Numerical Relay Development Environment :- Numerical Relay Development Environment (NRDE) with 1) Essential Relay Hardware Programmable Through IDE, 2) Programmer 3) Test Setup ..The concept Relay Hardware should be uniquely designed hardware which replicates an actual relay. This Hardware can be programmed using programming IDE and Programmer. any algorithm can be coded and can be tested for its characteristics and response. The test setup should be connected to a PC. simulation data can be generated using simulation software and then can be downloaded to the testing software. The test setup then should generate the signal accordingly and passes to the concept relay hardware. This enables students and research associates to verify and test different relaying / protection algorithms in a real life condition.	1	10.00	10.00	Switch gear and protection advance practical

17	Rheostat (50 Ohm,10A) , Make : Stead India	25	0.01	0.25	For UG Experiments
18	LASER Tachometer	5	0.03	0.15	
19	3 Phase Lamp Bank with wooden base & enclosed with iron net (440V,20A)	5	0.05	0.25	
20	TMS 320F2812 eZdsp laboratory trainer kits with code composer studio (fixed point)	2	0.55	1.10	<ul style="list-style-type: none"> • Presently, no DSP trainer kits available in the laboratory • Required for testing and experimental validation of power electronics circuits • Useful for UG, PG and Ph.D. students
21	TMS 320F28335 eZdsp laboratory trainer kits with code composer studio (floating point)	2	0.70	1.40	<ul style="list-style-type: none"> • Presently, no DSP trainer kits available in the laboratory • Required for testing and experimental validation of power electronics circuits • Useful for UG, PG and Ph.D. students
22	Digital L-C-R meter (DC to 1MHz)	1	1.50	1.50	<ul style="list-style-type: none"> • Presently, no such instrument is available in the laboratory • Required for measurement, testing and finding values of L-C-R used in various application and experiments in the laboratory
23	Digital Storage Oscilloscope (DSO) 4-channel, 100MHz, 1-2 GS/sec, □	4	0.40	1.60	<ul style="list-style-type: none"> • Required for observation and record of day-to-day experimental laboratory experimental use • No DSOs available in the laboratory • Useful for UG, PG and Ph.D. students
24	Differential Probes for DSO	3	0.40	1.20	<ul style="list-style-type: none"> • Required with Sr. 04 above for measurement of high voltages and currents
25	Current Probes for DSO	3	0.70	2.10	<ul style="list-style-type: none"> • Required with Sr. 04 above for measurement of high voltages and currents
26	LEM Hall effect Voltage Sensor (LV 25 – 800)	6	0.05	0.30	<ul style="list-style-type: none"> • Required for mini-project and project work, laboratory development kits and develop applications in the laboratory
27	LEM Hall effect Current Sensor (LA 55P)	6	0.05	0.30	<ul style="list-style-type: none"> • Required for mini-project and project work, laboratory development kits and develop applications in the laboratory

28	Laboratory consumables (to build small circuits, power supplies,	lumpsum	—	1.00	• Purchase of consumables like wires, ferrite cores, small component repair and replacement in the trainer kits available in the laboratory
29	Laptop I5	5	0.50	2.50	For lecture purpose/ Departmental work
30	Control console for machine lab	as per drawing	0.25	0.25	For safety and ease of control of electric supply on experimental setup in machine lab
33	Control contactors for Experiment tables	20	0.06	1.20	For safety and ease of control of electric supply on experimental setup in machine lab
34	Cabling in machine lab	as per drawing	1.20	1.20	For safety and ease of control of electric supply on experimental setup in machine lab
35	Machine meters (Multifunction meters 3 for each table)	20	0.50	10.00	For measurement of experimental parameters on each setup in machine lab)
36	IoT devices for each table	20	0.10	2.00	To make use of IoT devices to interface Laptop/mobile hand set to capture the observations of the experiments automatically
	Total	173	54.62	77.65	

Name of Department - Information Technology

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Digital Classroom Setup: Interactive Whiteboard, ViewSonic PJD5353LWS Short Throw XGA 3200 Lm, Projector, Wall Mount Kit for Projector, HDMI Cable for Projector 5M, Speakers 2.1 with 1-Year Warranty	1	1	1.00	To setup digital classroom and enhance teaching learning.
2	New Laboratory for PG: Desktop computers-18 (Inteli5, 8 GB RAM, 1TB HDD, DVD R/W drive, 18 Monitor, Optical mouse, keyboard)	20	0.5	10.00	New PG course is starting in the department from Academic year 2018-19. As per requirments of AICTE to setup PG Lab
3	Networking of proposed PG Lab	20	1	1.00	To setup & configure networking infrastructure for proposed PG Lab
4	Laptop- NG Series,Processor:Intel core i7, 2.3 GHz, RAM 16GB DDR4 2133, HDD 1TB, Graphics coprocessor, card reader, display 15.6 inch.	3	0.8	2.40	To faculties for Course preparation & effective Teaching learning process
5	VMWare 15 Pro Software	1	6	6.00	As per curriculum needed in Cloud computing Lab. Also use in Final Year BTech and Mini-Project work
6	Visual Studio Professional 2017 software	1	0.35	0.35	For performing Final Year BTech and Mini-Project work
7	Scanner:Flatbed with transparent materials adapter (TMA), 303 x 5088 x 108 mm, Scanning element:Charged-coupled device, USB 2.0 Hi-Speed, 4800 x 9600 dpi hardware resolution	2	0.15	0.30	Departmental office work
8	Gaming Lab: Unity software,3 Graphic Workstation	3	2	6.00	As per new syllabus for semester VII elective 3(Gaming Architecture & Design). Job Opportunity in gaming industry
9	Center of Excellence: IOT & Machine Learning	1	15	-	To setup state of art infrastructure for implimenting IoT & Machine learning applications.(Mini/Minor/Major Projects of studebts & faculty research)

10	NetSim Standard Version(Research) Network Simulation Software: Component 1 - Internetworks, Component 2 - Legacy Networks, Component 3 - BGP Networks, Component 4 - Advanced Wireless Networks (MANET, Wi-Max), Component 5 - Cellular Networks: GSM and CDMA, Component 6 - Internet of Things, Component 7 - Cognitive Radio Networks, Component 8 - LTE and LTE-Advanced Networks, Component 9 - Vehicular Adhoc Networks, Network Emulator (Add On)	1	7.5	7.50	For performing simulation based practicals for Wireless Mobile communication and Computer communication Network subjects of BTech / Mtech. Useful for faculty research work.
11	LCD/LED Projector: Features & Score (view all)Type: XGADevice Chipset: DLPLamp Life : 2000 hrs and BelowBrightness : 2501 - 3000 lmResolution: 1024 x 768 pRemote Control: YesLamp: 190WContrast Ratio: 4,000:1 HzPower Consumption(Active Mode): 218 W	2	0.5	1.00	For teaching learning in classroom, Guest lectures, Presentations
12	Multifunction Laser Printer: Duplex Print auto, Print Speed Mono 20ppm, Duty cycle (monthly, A4) 8000 pages,Max Print Resolution (Mono)-1200 x 1200 dpi, Optical scanning resolution-1200dpi	3	0.15	0.45	Departmental Work
13	AWS subscription:Licence for Amazon web services	1	1.5	1.50	For cloud computing Lab
14	Automatics Xerox Machine	1	0.8	1.50	Departmental Work
Total		60	37.25	39.00	

Name of Department - Electronics & Telecommunication

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Desktop Computer Machines of Latest Versin (i5 Verson 8)	15	0.7	10.50	To run all the Software & Hardware in our Department Need 64 Bit, 16 GB RAM, 2 TB Hard Disk in Machines
2	LCR Meter	2	0.5	1.00	For Basic & Electronics Devises ckt. Lab
3	Universal IC Tester	2	0.35	0.70	For EDC & Digital Electronics Lab
4	Vector Network Analyzer, 6 GHz	1	16	16.00	For Communication, DSP, M/W & Network Subject Lab.For TE& BE Student
5	100 MHz Bandwidth CRO	6	1	6.00	For Measurment in Communication & Power Electronics Lab.
6	Network Simulation Lab with Hardware & Software	Different modules			For CCN & Advance Network Lab experiments for 3rd year & final year students
7	call net 15 users			12.00	
8	Different sensor			4.00	
9	Hardware			6.00	
10	Sensor, Transducer, LVDT, temperature, pressure, load cell etc.	Assorted	5	5.00	Measurement Lab practical for 2nd year
11	Network Analysis & Synthesis Lab Equipment's	Different modules	2.1	2.10	Lab Network Analysis & Synthesis 2nd year
12	PROTEUS VSM Software	20 Users		10.00	For EDC, Netwok Subject digital Mini Project & Major Project Work (2nd 3rd & final year)
13	Advanced Digital Communication Trainer System, (BPSK PSK QPSK & Data aqisitation)	Different modules	16	16.00	equipments in degital commnication subject & Understanding project work in communication
14	Wireless Communication System (antenna design & simulation) Hardware & Software	Different modules	22	22.00	equipment's for wireless communication, satellite communication subjects, project work research
	Total	26	63.65	111.30	

Name of Department - Applied Mechanics

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Oven 300deg	1	150000	1.50	
2	Torsion Testing M/C	1	700000	7.00	
3	Planimeter	1	45000	0.45	
4	Computer	30	35000	11.00	
5	Zerox Machine	1	85000	0.85	
6	Concrete Compressor	1	80000	0.80	
7	Cube Mould	24	3000	0.72	
8	Vicat Appratus	1	600000	6.00	
9	Beam Mould	12	6000	0.72	
10	Mechanical Sieve Shaker	1	45000	0.45	
11	Digital Rebound Hammer Low Mpa	1	300000	3.00	
12	Thermometer Concrete	1	50000	0.50	
13	UTM-100T	1	1000000	10.00	
14	CTM-40T	1	300000	3.00	
15	Digital Watch Moisture Temp.	1	5000	0.05	
16	Humidity Chamber	1	100000	1.00	
	Total			47.04	

Name of Department - Master of Computer Application

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Desktop Computer	20	0.5	10.00	For New research based Soft computing lab-10 and Computer graphics lab 30 against write off
2	SIM808 GSM+ GPRS+GPS Cellular Module SIM808 5 11000 Cellular Module for Data communication	20	0.033	0.66	For New Laboratory in the area of IOT to be developed under autonomous curriculum of TYMCA
3	Scanner	4	0.05	0.20	For scanning of Documents
4	Statistica Data Miner Tool	1	5	5.00	For Software Development Project Laboratory
5	Laptop	1	0.7	0.70	for department staff use
6	Printer	1	0.2	0.20	For Network Laboratory
	Total	47	6.483	16.76	

Name of Department - Workshop

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Portable Welding Machine 200amp	01 set	0.3	0.30	Required for Welding section
2	Router Machine Bosch make	1	0.15	0.15	Required for Carpentry section
3	Trolley Heavy Duty	2	0.25	0.50	Required for shifting Machine & heavy tools in workshop
4	Compound cross cut saw machine	1	0.25	0.25	Required for Pattern making shop
5	Hand jig saw machine	1	0.2	0.20	Required for Pattern making shop
6	Desktop Computer	4	0.4	1.6	Required for store, WS, Foreman & Instructors
7	Laser Printer A-4 (preferably Duplex)	3	0.2	0.6	Required for WS , storekeeper & foreman
8	Scanner	2	0.075	0.15	Required for WS , storekeeper
9	Heat gun machine 2000Watt	1	0.075	0.15	
10	Planner machine Bosch Make 710 Watt	1	0.1	0.10	Required for Carpentry section
	Total	16	2	4	

Name of Department - Physics

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Air Conditioner (1.5 tonn ,auto restart, 5 stars rating, 3M microprotection filter, E saver mode, Rotary compressor, noise level indoar 36 DB.)	2	1	1	For safety of TGDTA and FTIR equipment in Nanotechnology Lab
2	Nitrogen cylinder (Brand New UHP Nitrogen Gas Cylinder - 10 Ltr Impurities -O2 -1.00PPM, H2O - 1.0PPM, THC-NIL, CO+CO2-NIL, AR-5.0PPM, Fitted with two stage gas regulator,Nitrogen Gas flow meter	1	0.4	0.4	For TGDTA and CVD system
3	Computer for simulation (Intel I7Quad Core PC.32GB,1 TB HDD with standard accessories)	1	1	1	For Simulation
4	Furnace (6" x 6" x 6", 3.6L approx with swing aside door at the front. Temp range - 1200 0CThe temperature controller should be a PID automatic control power control and. programmable with necessary safety features.Al2O3 Sample Plate 1 pcs Al2O3 Furnace Door Block 1 pcs Protection Glove 2 pairs Crucible Clip 1 pair Crucibles 6 pcs	1	1	1	Use to sinter or aniling the metal oxide thin film of allumina substrate, Glass substrate, Quartz substrate, FTO substrate at different temperature for different characterizatio
	Total	5	3.4	3.4	

Name of Department - Chemistry

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Projector	1	0.6	0.60	For laborotary development
2	Laptop	1	0.5	0.50	
3	Presenter	2	0.6	0.60	
Total		4	1.7	1.7	

Name of Department - Office

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Laptop	1	0.5	1.00	for Office and Meeting
2	Computer	2	0.4	0.80	For Office Staff
3	All In One Printer	5	0.25	1.25	For Office Staff
4	Cooler	2	0.5	1.00	For Office Staff
Total		10	1.65	4.05	

Grand Total**350.11**

Institute Level Fund - Equipment Replacement

B .Equipment Replacement Fund : (For Furniture)

Name of Department - Mechanical Engineering

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Faculty chair	6	0.1	0.6	CAD/CAM Lab Mechatronics lab
2	Faculty table	4	0.2	0.8	
3	Cupboard	2	0.2	0.4	
4	Staff tables in non conventional machining lab (store)	2	0.2	0.4	For practical, staff tables and benches are not available
5	Benches for practicals in MQC and Meta Lab	24	0.1	0.24	
6	Cushion Chair	10	0.02	0.2	0.2
7	Office Table, Chair	3 each	0.3	0.9	Faculty cabin in MESA library
Total		48	1.12	3.54	

Name of Department - Electrical Engineering

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Cushion Chairs	Seminar Room(comp lab 2)	50	1.5	
2	Computer table	Seminar Room(comp lab 2)	2	0.1	
3	Table Glass	5x3 feet	3	0.2	
4	officer chair revolving		16	0.4	
5	Steel Cuborad	6x3 feet	8	0.64	
6	Plastic chair with cushion		10	0.08	
7	plain fiber chairs		30	0.15	
8	Faculty chair (wooden)		1	0.02	
9	Wooden table	5x3 feet	5	0.48	
Total		0	125	3.57	

Name of Department - Information Technology

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Faculty Table	10	0.05	0.5	Faculty Seating arrangement
2	HOD Table	1	0.4	0.4	HOD Cabin
3	Visitors Chair	6	0.05	0.3	HOD Cabin
4	Faculty Chair	15	0.05	0.75	Faculty Seating arrangement
Total		32	0.55	1.95	

Name of Department - Electronics And Telecommunication Department

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	DSP & VLSI Simulation Lab Furniture	1	4	4	
2	Computer Lab Furniture	1	4	4	
	Total	2	8	8	

Name of Department - Applied Mechanics

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Chair With Cushion and Handle Make - Supreme	10	2000	0.20	
2	Steel Cupboard	3	6000	0.18	
3	Bench(2Seater)	10	5000	0.50	
	Total	23	13000	0.88	

Name of Department - Master of Computer Application

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Faculty Cabin Loft Furniture			1.5	For storage purposes in Faculty cabin
2	HOD Cabin Loft Furniture			1.5	For storage purposes in HOD cabin
3	Computer Chair Revolving	40	0.015	0.6	For Lab
4	White Board with stand	1	0.05	0.05	For Lab
	Total	41	0.065	3.65	

Name of Department -Physics

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Table coubord door furniture	8	0.04	0.32	For Nano lab
2	Visiting chair	12	0.005	0.06	For staff Cabin and Nano Lab
3	Faculty Chair	1	0.01	0.01	For Staff Cabin
	Total	21	0.055	0.39	

Name of Department - Chemistry

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	Visitors chair	6	0.05	0.3	For laborotary development
Total		6	0.05	0.3	

Name of Department - Office

S.No.	Proposed Item with specification	Qty. required	Estimated Unit Rate	Estimate Amt	Justification
1	File Storage Floor	...	1.5	1.5	File Storage Floor in Account Section is very Old
2	Office Chairs	25	0.05	1	For Office Staff
3	Server	1	3	3	For Office & software's
Total		26		5.5	

Grand Total

27.78

c. Maintenance Fund

Name of Dept - Civil Engineering

S. No.	Name of Laboratory/	Details	Unit cost	Qty	Total	Justification
1		Surveying lab - Total Station battery	0.09	1	0.09	Battery of total station instrument is not working . New battery is required for Total station practical
2		fluid mechanics lab - Repairing leakages works and nominal maintenances	0.3		0.30	leakages of tanks, foot ball of pumps, valves are not working and some repairing work
3		Tranportation Lab Maintenance	0.65		0.65	Maintenance of broken switches, Cleaning equipments etc
4		Tranportation Lab Consumables	0.25		0.25	Purchase of Glass wares, Tar (bitumen), kerosene
5		Geotechnical Lab Maintenance	0.25		0.25	Repairing of minor instruments and purchasing of oiling & greasing for proper maintenance of machineries
6		Building Services lab Maintenance	0.5		0.50	Purchasing of some consumables like charts and other study material, maintenance of lab
7		Environmental Lab Maintenance and Repairs	0.5		0.50	Purchasing of chemicals, Maintenance of some equipments (BOD, COD, Jartest) , glasswares, crucibles, filter, tissue paper purchasing
8		Computer Lab Maintenance and repairs	0.5		0.50	Repairing of chairs, switches, purchasing of printer cartage (refill cartage) , projector cables, cleaning equipments
9		Geology Lab Maintenance and repais of lab	0.2		0.20	Purchasing and maintenance of lab
Total			3.24	1	3.24	

Name of Dept - Mechanical Engineering

S. No.	Name of Laboratory/	Details	Unit cost	Qty	Total	Justification
1		Oil, Diesel, Petrol, spares, salt and other, Thermocouple and Digital Temperature Indicator, Cotton waste, grease, Foam Board, antivirous, Toner Refill, salt, Boiler Suit, Hand gloves, Measuring tape, measuring Flask, Thermometer, Fix it, Extensio board, Refilling of oxygen cylinder, Table glass, name plate, wire, other.			2.40	Thermodynamics Lab
2		Maintanance of gyroscope, balancer, Electromagnetic vibrator (Shaker), Purchase of oil , grease, bearing , spares, other etc			0.70	TOM Lab
3		Air Blower, Screw Driver set, plier, brush, crimping tool			0.50	For cleaning purpose of computer and peripherals

4		Replacement of Tonners, Refilling of Tonners, Repair of printers, USB cable for printer				CAD-CAM Lab Regular maintainance
5		Mouse, SMF Batteries, small size pad locks, keyboard, RAM, SMPS Anti-virus, pen- drives, HDMI cable				
6		Repair of LCD Projector; VGA connector, bulb				
7		Xerox Machine Parts, Accessories				
8		Purchase of consumables, spares, wires, nano particles			2.50	Heat transfer lab
9		Dielsel, Petrol, oil, Grease, cotton waste, filters Antivirous, consumable parts AMC of four cylinder petrol engine test rig, AMC of five gas analyser, AMC of variable compression ratio Test Rig, Repair of Equipments,			2.00	IC Engine Lab
10		2 Ammeter, 2 voltmeter, 2 Multimeter, 2 Rheostat, Multimeter cable, spares			0.30	Renewable energy source Lab
11		purchase of oil Refrigerent, replacement, replacement of pressure gauges, drier filter etc. thermocouple Repair Electrolux Refrigeration Data acquisition card			1.50	RAC Lab
12		Purchase of grease, sponges, ropes, pipes and hose , Tachometer, Mercury, pressure gauges and servicing or repair of equipments spares,PVC pipes, AcrylicPipe, Reducer coupling vanstone flanges Pipe bend pipe bend,Unian, Butter fly valve			2.00	FM/FTM Lab repair and maintenance
13		Maintenance of laboratory equipments fatigue testing machine, jominy Hardenbilty set up, Foundry testing equipments and purchase of consumables, oil, calibration of microscope, forging specimen, Rolling specimen Extruded specimen, spares. Tensile test specimen, Erichion cupping specimen, Jominy hardenability specimen, Foundry sand, Bentonite			0.60	Metallurgy lab repair
14		Maintainance of laboratory equipments and purchase of consumables microprocessor, microcontroller and other elctronics kits and PLC and its applications spares, pad locks, etc			0.20	Mechatronics Lab repair
15		Measuring instrument repair and calibration , purchase of spare part, consumables for 3 D printers, Purchase of oil parafin cotton waste, toolkit, iso-profill alchohol , comparator spares, AMC of equipments,AMC of 3D Printer etc.			1.30	MQC lab Repair
16		Inserts and tool holder, Rack/Plastic Bins spares			0.50	Machine Tools Lab
17		Computer Accessories, viz., Mouse, small size pad locks, key board, RAM, Anti-virus, pen drives, Replacement/Refilling of Tonners, Air blower ,spares etc			0.30	PG computer Lab

18		<p>Maintainance of laboratory equipments compressor and computers, Purchase of consumables for CNC lathe, milling, Robot, AGV, CMM, Dynomometer, Surface roughness meter, etc.</p> <p>CNC Lathe and Milling Tools and Cutters, different types holders, Clamping Devices, Spanner set, Allen key set, Tool box with tools, CMM accessories, etc.</p> <p>CNC Training Program Material like Certificate printing, files, stationery, consumables for CNC Training program</p> <p>Jig and fixtures for milling, turning operations. Charger for AGV, Replacement/Refilling of Tonners, antivirus, Mouse, sensor change/repair, spare, toolkit, AMC, Calibration equipments etc.</p>			3.00	CIM Lab maintenance and AMC
		Total	0	0	17.80	

Name of Dept - Electrical Engineering

S. No.	Name of Laboratory/ Items / Discription	Details	Qty	Unit cost (Rs.)	Total	Justification
1		Electrical items required for breakdown and routine maintenance like wires, switches, tubes, fans, motors, cables, rewinding etc	LS	-	7.50	for routine electrical maintainance and replacement in Institute
2		Electrical items required for breakdown and routine maintenance like wires, switches, tubes, fans, motors, cables, rewinding etc	LS	-	5.50	for routine electrical maintainance and replacement in Hostels
3		Repaires of Computer including purchase of mouse, keyboard. SMPS, RAM, Hard disk, Motherboarde etc. Printer Cartridge repaires, tonner repairing, LCD lamp replacement, Batteries, Page rim etc.	LS	-	1.00	Maintenance of computers, Printers
4		Printer AMC	1	20000	0.20	Printer maintenance
5		Copier AMC	1	20000	0.20	Copier maintenance
6		Computer repair	10	2000	0.20	Computer maintenance
7		Electrical Repair and maintenance	150	500	0.75	Switchboards Damaged and not working properly
8		Laptop maintenance	3	5000	0.15	Laptop maintenance
9		Technical posters/ charts in the lab	20	500	0.10	To display technical posters in lab
10		Misc/others not listed	-	-	1.00	Incidental maintenance
11		Network tool kit: Crimping Tool, Cable tester, tool kit	5	2000	0.10	Practical
12		External DVD writer	2	2000	0.04	Software installation
13		Extension Board	5	800	0.04	Practical
14		Xerox Toner	2	7500	0.15	Office work
15		Laser Printer Toner	20	350	0.07	Office work
16		Pen Drive	11	500	0.10	To carry data
17		RJ-45 Connector	100	15	0.02	Network maintenance
18		Table cloth	10	1000	0.10	Departmental work
19		Curtains	28	500	0.14	Labouratory
20		Keyboard and Mouse	20	500	0.10	Practical use
21		Misc/others not listed	-	-	1.00	
22		Office stationary material			0.60	Departmental work
Total				63165	19.06	

Name of Dept - Information Technology

S. No.	Name of Laboratory/ Items / Discription	Details	Unit cost (Rs)	Qty	Total	Justification
	Repair / Maintenance					
1	Printer AMC	Maintenance	20000	1	0.20	Printer Maintenance
2	Copier AMC	Maintenance	20000	1	0.20	Copier Manintenance
3	Computer Repair	Maintenance	2000	10	0.20	Computer Maintenance
4	Electrical Repair and Maintenance	Repair	500	150	0.75	Switch Boards damaged and not working properly
5	Laptop Maintenance	Maintenance	5000	3	0.15	Laptop Maintenance
6	Technical Posters/Charts in the Lab	Lab Material	500	20	0.10	To display Technical Posters in the Lab
7	UPS Maintenance	Maintenance	30000	1	0.30	UPS Maintenance
8	Misc. / Other non listed	Maintenance and Repair	-	-	1.00	Incidental Maintenance
	Consumables					
9	Network Tool Kit : Crimping tool, Cable tester, tool kit	Consumables	2000	5	0.10	Practical
10	Extension Board	Consumables	800	5	0.04	Practical
11	Xerox Toner	Consumables	7500	2	0.15	Office work
12	Laser Printer Toner	Consumables	350	20	0.07	Office work
13	Portable weist band speaker	Consumables	5000	2	0.10	Presentation
14	External HDD 2 TB	Consumables	5000	3	0.15	Storing data
15	Pen Drive	Consumables	500	10	0.05	To Carry data
16	RJ-45 connector	Consumables	15	400	0.06	Network Maintenance
17	Wall Screen	Consumables	8000	2	0.16	Class room
18	Screen With Stand	Consumables	10000	2	0.20	Presentation
19	Slider and Pointer	Consumables	4500	2	0.09	Presentation
20	Table Cloth	Consumables	1000	10	0.10	Departmental Work
21	Curtones	Consumables	500	20	0.10	Laboratory
22	Key board and mouse	Consumables	500	20	0.10	Practical Use
23	Misc./ other non-listed items	Consumables	-	-	1.00	As per Incidental requirments
	Stationery Items					
24	Office Stationary Material	Stationary			0.60	Departmental Work
	Total		123665	689	5.97	

Name of Dept - Electronics & Telecommunication

S. No.	Name of Laboratory/ Items / Discription	Details	Unit cost	Qty	Total	Justification
1		EPABX (AMC)	1	0.5	0.50	Annual Maintenance
2		Xerox Machine & Printer Repairing		0.25	0.25	Maintenance
3		Electronics Component's consumables		7	7.00	For Student Project
4		Equipment Repairs		0.35	0.35	
5		PCB Drill Bits		0.5	0.50	
6		Sound System With 6 Speakers & Collar Mic	2	0.25	0.50	Mini Sound System For Classroom
7		Rubber Mat/Isolation Mat	2 feet*300 meter		0.30	For Shook Protection Purpose In Laboratory's
8		Green Mat			0.15	For all Laboratory's Door Mat
9		Curtons in Laboratory's and staff cabins			1.00	For Staff Room and Laboratory
10		Electric & LAN Network wiring	4 Labs	1	4.00	For computer connectivty
	Total				14.55	

Name of Dept - Applied Mechanic

S. No.	Name of Laboratory/ Items / Discription	Details	Unit cost	Qty	Total	Justification
1		Printer e.g. Drum, Tonner, Vibration Blade, ink	10000	1	0.01	
2		CTM Repairing	20000	1	0.02	
3		Zerox Machine Maintance	5000	1	0.05	
4		UTM Repairing 60T	50000	1	0.5	
5		UTM Repairing 100T	50000	1	0.5	
6		Computer Manintance	30000	1	0.3	
7		Stationary Paint Marker, Consultancy Pages	10000	1	0.01	
8		Spare Parts	30000	1	0.3	
9		Hand Blower	15000.00	1.00	0.15	
10		Computer Table Repair	5000	1	0.05	
11		Anti Virus	1500	2	0.03	
12		Calibration of Proving Ring	46000	1	0.46	
13		Internet Dongle	5000	1	0.05	
	Total				2.43	

Name of Dept - Master of Computer Application

S. No.	Name of Laboratory/	Details	Unit cost	Qty	Total	Justification
1	Laboratories of MCA department	Laboratories of MCA department			1.50	Maintenance of All laboratories lumpsum
2	MCA	UPS AMC	0.2	2	0.40	For maintaining UPS
3	MCA	Printer Servicing	0.015	6	0.09	Required for Printing maintainance
4	MCA	Xerox Machine Toner Refilling	0.05	4	0.20	Xerox Machine maintainance
5	MCA	Leserjet Printer Towner Refilling	0.017	6	0.10	Required for Printing of official work, proposals etc.
6	MCA	Maintenance	--	--	0.70	Maintenance
7	MCA	stationary & consumables		35 Rim, Stappler, Stappler pins, Pencil, Rubber, whiteboard marker pen	0.10	Documentation
COMPUTER CENTRE						
1	Computer Center	Keyboards, Mouse, Switches, Patch cord other network related tools or parts			1.50	Maintenance and consumables
2	Computer Center	AMC for Computer	0.05 for two year (per year 2500/- for one computer)	150	7.50	For Hardware support of 150 computers in Computer Center
3	Computer Center	UPS AMC	0.25	1	0.25	for mantaning UPS
4	Computer Center	Printer Servicing	0.015	6	0.03	Required for Printing maintainance
5	Computer Center	Leserjet Printer Towner Refilling	0.017	6	0.10	Required for Printing of official work, proposals etc.
6	Computer Center	General Maintenance,	--	--	0.70	Maintenance,
7	Computer Center	stationary & consumables		5 Rim, Stappler, Stappler pins, Pencil, Rubber, whiteboard marker pen	0.06	Documentation
8	Computer Center	Carpet at Computer Center Lab	400 Sq ft	70*40 feet	1.60	For healthy and dust proof enviroment
9	Computer Center	Website pluing & hosting	1	1	1.00	for mantaning website
Total			1.564	182	15.83	

Name of Dept - Workshop

S. No.	Name of Laboratory/	Details	Unit cost	Qty	Total	Justification
1		Repairs & Maintenance Lathe machine, shaping machine, Hacksaw, Drilling & other machines and tools used in workshop repairing etc.		Lumpsum	2.00	Most of the machines/tools in workshop are old and requires maintenance
2		Practical Materials - M.S. round & Square bar, MS flat, MS Angle, GI sheet, Teak wood, Ply wood, Sunmica, Moulding patti , steam coal etc.			3.00	Material required for practical purpose
3		Workshop Consumables Safety glass/helmet, Hand gloves, All size Cutting wheel, grinding wheel, circular saw blade All size HSS drills & bits, Hack Saw Blade, circular blade, machine & cutting Oil, greace, Cotton waste, Wooden/PVC Handle, Paint, Touch wood, Brush,welding glass ,etc.			2.00	Required Consumables for day to day practical work
4		Hardware Material & Workshop Tools-Fevicol, Abro Tape, Locks, hinges, stopper, Hexa frame, hammer, spanner,welding rod, nut bolt, wire nails, wood screw, ss screw V belt, sand paper Screw driver set, Center punch, Drill M/c.,Trolley, Magnet level, measuring Tape,abrasive cutter, grinder,Tin cutter,All size- files , 12" Tong,plumbing material etc.			3.00	Hardware material & Tools required in workshop practical work as well as Institute work orders
5		Labour payment , cleaning material- Brooms, Washing Powder, coconut brooms, life boy ,Match Box, First Aid, , phynel, cloth duster & other cleaning material etc.			2.00	
6		Diesel , Transpporation & maintenance work of DG Set			2.00	Generator required whenever electricity goes off
7		Work order Material- Door closer, Drawing Boards, Table Glass, table cloth, etc.			3.50	All departments works order material as per requirement
8		Stationary-Tonner for printer & xerox machine, paint marker etc.			0.25	Office work
		Total	0	0	17.75	

Name of Dept - Physics

S. No.	Name of Laboratory/	Details	Unit cost	Qty	Total	Justification
1	Department of Physics	Chemicals			0.50	Different chemical required for different practical's and preparation of nanomaterials.
2		Laurent'z Tube	0.012	10	0.12	For Laurent'z Polarimeter Practical
3		Mercury Lamp	0.01	4	0.04	For Spectrometer Practical
4		Sodium Lamp	0.01	6	0.06	For Resolving Power Practical
5		Diffraction Grating	0.005	4	0.02	For LASER practical
6		Basic components, glass wares, Crucibles, substrates, films etc.			0.60	For preparation of Nanomaterials
7		Printer tonner/refilling/cartilage and AMC	0.15	3	0.45	Refill /replace printer tonner in lab.
8		Laboratory Tool kit	0.05	1	0.05	Required for handle all the instruments
9		Scientists Frame with photo	0.005	9	0.05	In Laboratory
10		Lab. Manual	50	10	0.01	Autonomy Syllabus for lab and Different committees.
11		Stationary items	0.1		0.10	Including all consumable item required for lecture , practical and departmental maintenance
12		Lab. Name plate and instruction boards, Equipment Name Plates	0.005	20	0.10	Required for new equipment in Nanotech Lab.
13		Regulator	0.03	1	0.03	For nitrogen cylinder
14		Refilling of Nitrogen cylinder	0.01	5	0.05	For Practical
15		Equipment repair	0.01	10	0.10	Laboratory equipment repair
16		Hard Disc	0.05	2	0.10	For departmental data storage
Total			50.45	85	2.37	

Name of Dept - Mathematics

S. No.	Name of Laboratory/	Details	Unit cost	Qty	Total	Justification
1	MATHS	Repair: Xerox / Computer			0.1	
2		Consumable: Cartridge/Toner Refilling , Xerox Drum			0.1	
Total			0	0	0.2	

Name of Dept - Office

S. No.	Name of Laboratory/	Details	Unit cost	Qty	Total	Justification
1	OFFICE	Printer and Copiers Refilling, Repairing, AMC			0.50	Maintenance
2		Computer related Material			0.50	Maintenance
3		Software			0.60	For Tally solution and TDL for Accounting
4		Miscellaneous			4.00	
5		Refreshment			0.85	For Auditors, Visitors, Staff etc
6		BoM, FC, Other Meetings	0.35	14	4.90	
7		Stationary and Printing			6.00	For Whole Institute
8		Legal Expenses			1.00	
9		Outdoor Training for Office Staff for 2 Days			4.00	Developing Knowlwdge and for Refreshment
10		Training for Class 4 Staff for 2 Days			2.00	Developing Knowlwdge and for Refreshment
11		Water Expenses			8.80	
12		Electricity Expenses			52.80	
13		Telephone Expenses			1.32	
Total			0.35	14	87.27	

Grand Total

187.48

Institute Level Fund - Institute Development Fund

A) Refurbishment

Name of Department - Mechanical				
Sr. No.	Title	Brief Specification	Quantity	Esti. Cost
1	Cupboard	Cupboard for keeping equipment in Thermodynamics lab	10.00	0.5
2	Partition	Partition in faculty cabin of CAD/Cam Lab	10 sq.m	0.3
3	Flooring	Fitting new tiles in computer lab	180 sq.m	2
4	Cabin for 3 D printer	Dustfree and cool environment is needed	10ft x 8 ft	0.5
5	Partition for Metallurgy and MQC Lab	To isolate teaching area		0.5
6	PoP sheets replacement in MQC and Metallurgy lab	Old sheets are deteriorated due to rain water leakage		1.5
7	Replacing old tiles with new in Non conventional machining lab (store in workshop)	Non conventional machines will be kept in this lab. Right now it has dusty and rough old tiles.	1000 sq ft	0.75
8	CIM Lab Removal of shutter and building wall with sliding window	Shutter emits extensive heat in summer and machine accuracy may get affected.		0.75
9	Glass cabin for CNC Milling, CNC Lathe and Robot	CNC Machines should be dust proof and cool for better performance	partition size 40ft long and 12ft height	3.5
10	Curtens in all lab and fitting			2
11	Fitting tiles in foundry of metallurgy lab	No flooring is available	40 ft long & 15 ft breadth	0.75

Total	10.00	13.05
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Name of Department - IT (Information Technology)

Sr. No.	Proposed Item	Area Details	Estimate Amount	Justification
LABORATORY REFURBISHMENT				
1	HOD Cabin: Removing wall mounted cupboards	Removing wall mounted cupboards to make space	1.00	To avail space in the HOD Cabin
2	HOD Cabin: Plywood and Glass showcase	6*4 Feet Showcase with two doors	0.50	To keep liscenced software copy, Memento, Trophy
3	Changing Tiles in the coridore of the department	Good quality tiles	2.00	To improve ambience
4	Sliding window to Laboratory, class and faculty cabins	3*6 Feet Window	0.90	Old windows are broken so it should be replaced by new sliding window
OTHER				
1	POP of Classroom	50 Sq. Meter	0.60	To improve ambience
2	POP of Laboratory	250 Sq Meter	3.00	To improve ambience
3	Carpet for Laboratory	250 Sq Meter	1.50	To improve ambience
Total			9.50	

Name of Department - Electrical
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Sr. No.	Proposed Item	Area Details	Estimate Amount	Justification
1	Projector Screen Smart Screen	Seminar Room(comp	1.50	To create modern audio visual facilities for effective teaching learning process
2	Audio Video Fascility with speakers	Seminar Room(comp	0.40	
3	1.5 tone split AC	Seminar Room(comp	1.00	
4	Miscelenous (pointers etc)	Seminar Room(comp	0.10	
5	LCD projector	Tutorial Room	2.00	
6	Computer head phones		0.10	To create modern audio visual facilities for effective teaching learning process
7	Providing earting for various laboratories		1.50	
8	Mouse and KBD		0.25	
Total			6.85	

Name of Department - Workshop

Sr. No.	Proposed Item	Area Details	Estimate Amount	Justification
1	Workshop Varada chainging of tiles And plinth protection around workshop Building,		6.00	existing tiles of shahabad are very old and broken new tiling work is required. plinth protection around Workshop Building required for gardening purpose
Total			6.00	

Name of Department - Physics

Sr. No.	Proposed Item	Area Details	Estimate Amount	Justification
1	Physics Lab.	Refurbishment of Physics Lab. Like Fall ceiling (POP) Carpet, slidingWindow, partition for dark room,electric fitting, wash Basin colouring etc.	3	
2	Nanotech Lab.	Refurbishment of Nanotech Lab. Like Carpet, sliding Window, electric fitting, colouring etc.	1.5	
Total			4.50	

Name of Department - Chemistry

Sr. No.	Proposed Item	Area Details	Estimate Amount	Justification
1	POP of chemistry department	POP of chemistry department	6.00	
2	Windows of chemistry department (5) and glass	Sliding windows and other	1.50	
3	Colouring of chemistry department	colouring	1.50	
Total			9.00	

B) Maintenance (office)

Sr. No.	Proposed Item	Expenditure per month	Estimate Amount	Budget
1	Alluminium Partion Cabin in Establish Department			2.00
Sub Total				2.00

Grand Total

50.90

Institute Level Fund - Institute Development Fund

B) Student Activity

Name of Department - Civil

Academic support for weak students for the year 2019-20 (please consider GATE classes, pre-placement training, additional soft skill training, industry visits, expert lectures and other proficiency for students.

Training

Sr. no.	Name of the Training programe	Target Participants	Training Agency		Esitmated amount (In lacs)
1	Soft skills, General proficiency	70	As decided by college		4.00
2	GATE Classes	70	As decided by college		4.00
3	Preplacement activities	70	As decided by college		1.00
Total					9.00

Industry visits (Min 2 visits per class for each UG classes: Max Rs. 20000/- per visit)

Sr. no	Name of the industry	Target Participants		Tentative Schedule	Estimated amount in lacs
1	Industries related to SY Curriculum (Two for each sem)	70		October-2019 & March 2020	0.8
2	Industries related to TY Curriculum (Two for each sem)	70		October-2019 & March 2020	0.80
3	Industries related to B.Tech Curriculum (Two for each sem)	70		October-2019 & March 2020	0.80
Total					2.40

Expert (Industry/ Academics) lectures (Min 3 per class for each UG classes)

Sr. no	Name of the industry	Target Participants		Tentative Schedule	Estimated amount in lacs
1	Industries related to SY Curriculum	70		Sept- 2019 & March - 2020	0.5
2	Industries related to TY Curriculum	70		Sept- 2019 & March - 2020	0.5
3	Industries related to B.Tech Curriculum	70		Sept- 2019 & March - 2020	0.50
Total					1.50

Details of reforms for the year 2019-20 (please include expenses on meeting, hospitality and other reforms)

Sr.no	Details of reforms (BoM/ FC/ BWC/AC/ APEC/ BoS meetings etc		Exp. Per meeting	No. Of meeting	Total cost
1	Departmental Meetings of Bos etc		25,000 /- per meeting	4	1.00
Total					1.00

Grand Total of Civil

13.90

Name of Department - Information Technology

Academic support for weak students for the year 2019-20

(Please consider GATE classes, pre-placement training, additional soft skill training, industry visits, expert lectures and other proficiency for students)

Name of Dept.: Information Technology

Sr. No.	Name of the Training Program	Target participants	Training Agency	Estimated Amount in lacs
1	GATE Classes	60		9.00
2	Pre Placement training	85		0.80
3	Soft-Skill Training	85		0.50
Total				10.30

Industry visits (Min 2 visits per class for each UG classes; max Rs 20,000/- per visit)

Sr. No.	Name of the Industry	Target participants	Tentative Schedule	Estimated Amount in lacs
1	NC/MNC SY Visit	50	July, 2019	0.40
2	NC/MNC TY Visit	50	July, 2019	0.40
3	NC/MNC BE Visit	50	Nov, 2019	0.40
Total				1.20

Expert (Industry/ Academics) lectures (Min 3 per class for each UG classes)

Sr. No.	Name of the Expert	Target participants	Tentative Schedule	Estimated Amount in lacs
1	Expert Lecture(SY BTech)	85	Sept,2019	0.90
2	Expert Lecture(TY BTech)	85	Sept,2019	0.90
3	Expert Lecture (Final Year BTech)	85	Jan, 2020	0.90
Total				2.70

Details of reforms for the year 2019-20 (please include expenses on meeting, hospitality and other reforms)

Name of Dept. Information Technology

Sr. No.	Details of reforms (BoM/ FC/ BWC/ AC/ APEC/ BoS meetings etc.)	Expenses per meeting	Number of Meetings	Total Cost lacs
1	BOS Meeting	0.5	2	1.00
2	IEB Meeting	0.5	2	1.00
Total				2.00

Grand Total of IT

16.20

Name of Department - MATHS

Details of reforms for the year 2019-20 (please include expenses on meeting, hospitality and other reforms)

Sr. No	Details of reforms (BoM/ FC/ BWC/AC/ APEC/ BoS meetings etc	Exp. Per meeting	No. Of meeting	Total cost
1	BOS Meetings	0.2	2	0.4
Total				0.40

Grand Total of MATHS

0.40

Name of Department - Physics

Academic support for weak students for the year 2019-20

(Please consider GATE classes, pre-placement training, additional soft skill training, industry visits, expert lectures and other proficiency for students

Name of Dept. : Mechanical Engineering

Training				
Sr. No.	Name of the Training Program	Target participants	Training Agency	Estimated Amount in lacs
1	Quiz Competition	300		0.05
2	Expert lecture	300		0.1
Total				0.15

Grand Total of Physics

0.15

Name of Department - Mechanical

Academic support for weak students for the year 2019-20

(Please consider GATE classes, pre-placement training, additional soft skill training, industry visits, expert lectures and other proficiency for students

Industry visits (Min 2 visits per class for each UG classes; max Rs 20,000/- per visit)

Sr. No.	Name of the Industry	Target participants	Tentative Schedule	Estimated Amount in lacs
1	Sandvik Asia,Pune	TE Mech -75	43709	0.20
2	Thermax Pune	TE Mech -75	March	0.20
3	Thermax Pune	BE Mech	40238	0.20
4	ISRO Banglore	43770	43770	0.20
5	Foundry Kolhapur	SE Mech	43497	0.20
6	IGTR Aurangabad	SE Mech	43739	0.20
7	Thermax Pune	ME 1	43497	0.20
8	Kirloskar Pune	ME 1	43739	0.20
9	IGTR Aurangabad	M Tech Prod.	43739	0.20
Total				1.80

Expert (Industry/ Academics) lectures (Min 3 per class for each UG classes)				
Sr. No.	Name of the Expert	Target participants	Tentative Schedule	Estimated Amount in lacs
1	Tata Motors	TE Mech -75	43709	0.08
2	R & AC	BE	jully	0.08
3	Praram Teeh Ahemadabad	BE	43709	0.08
4	Seimens Pune	TE Mech -75	43709	0.08
5	Kirloskar Pune	SE	43709	0.08
6	IGTR Aurangabad	SE	43831	0.08
7	Carrier consultancy	All	sept 19	0.08
8	Enterprenership express Tiss, Mumbai	All	sept	0.08
9	IIT Bombay	B Tech	01-Oct	0.08
10	IIT Bombay	B Tech	01-Oct	0.08
11	IIT Bombay	M Tech	01-Jun	0.08
Total				0.88

Details of reforms for the year 2019-20 (please include expenses on meeting, hospitality and other reforms)				
Name of Dept. : Mechanical Engineering				
Sr. No.	Details of reforms (BoM/ FC/ BWC/ AC/ APEC/ BoS meetings etc.)	Expenses per meeting	Number of Meetings	Total Cost lacs
1	Bos meeting	0.5	3	1.5
2	Departmental faculty meeting	0.005	5	0.025
3	Industry advisory board	0.5	2	1
Total				2.525

Total of Mechanical	5.21
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GRAND TOTAL	35.86
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e. Salary Fund:

Honorarium to Visiting Faculty, visiting fellows, Professor emeritus, Adjunct faculty etc.

Sr. No.	Post	No. of Posts	Honorarium per month	Budget for 2019-20
1	Visiting Faculty - Lecturer Remuneration	66		108.53
2	Visiting Faculty - Activity Remuneration			56.91
3	Visiting Faculty - Local Conveyance			10.30
4	Adjunct Faculty	12		80.19
TOTAL		66	-	255.93

Outsources Services (salary)

Sr. No.	Post	Expenditure per month	Expenditure for 2018-19	Budget for 2019-20
1	Security (MESCO)	4.06	44.29	48.72
2	Cleaning expenses (Sankalp)	1.22	13.29	14.62
3	Electrician (Global)	0.12	1.32	1.45
4	Outsourcing (Shriram)	8.01	83.61	96.15
TOTAL		13.41	142.52	160.95

Grand total

416.88

Institute Level Fund : Gymkhana

Name of The Department: Gymkhana (Recurring)			
Sr.No.	Proposed Item with specification	Estimated Amount	Justification
1	Annual Collaee Day	5.00	Celebration of Annual College Day/ Students cultural activities
2	College Magazine	2.80	Publication of College Magazine
3	Sports Material	9.50	Purchase of sports material required for different Games.
4	Sports Kits(T Shirt, Pant) Track Suits	2.00	To provide Colors (T shirt, Pant) to players
5	Ground Maintenance material, Labour etc.	1.75	Repaire and Maintenance of Play Ground, clay, Labour charges etc.
6	Sports TA/DA	1.50	TA DA to the students and accompaning staff when they go to play outstation for Zonal/ Int. Zonal/ ZEST Games
7	Culturatial Activities / Youth Festival	3.00	To conduct cultural programme during academic year
8	Gymnasium Equipments	3.50	Equipments for Gymnasium
9	Ladies Activities	0.50	To conduct lady student activities/ programme during academic year
10	Blazers to Student Council	0.50	To provide Blazers to student council members
11	Musical Instruments, Camera purchase (Octapad, Dholaki, Mridangam, Electric Guitar, Flutes, Camera , etc.) and Maintenance of Instruments	1.50	To purchase Musical Instruments to use of Cultural Events team
12	Compensation to student caussing Accident during Playing	1.00	Compensation to student caussing Accident during Playing
13	Miscellaneous	1.50	For hospatilities, Stationary, Cartridge, Photographs, repairs other minor purchases etc.
Total Rs. Lacs		34.05	

Name of The Department: Gymkhana (Non Recurring)

Sr.No.	Proposed Item with specification	Estimate Amount	Justification
1	Water Supply on Ground	0.50	To provide water connection on ground(Pipeline etc.)
2	Geosynthetic Fencing & Lighting Basket Ball Ground	5.00	Fencing & Lighting to the Basket Ball Ground
3	Ground Fencing with Gates	10.00	Fencing to the Ground
TOTAL		15.50	

GRAND TOTAL**49.55**

Budget for Different Clubs

Sr. No.	Name of Clubs	Budgeted Amount in lacs
1	Divine Club	1.24
2	AI, Computer vision and Robotics Club	2.00
3	Open Source	2.35
4	Agri Mitra Club	2.55
5	SAE/ Baja Club	6.04
6	Dais Club	9.00
7	Electro Chaser	11.00
8	Robo Club	4.90
9	Herald Club	7.50
10	Aerobic Club (W)	0.45
11	Spicn Macay	1.20
12	Idea Club	5.50
13	Words Worth	1.88
14	Quest Club	2.25
15	Yoga Club	1.00
16	Contriver	2.53
17	Defence Club	1.50
18	House of Arts Club	2.57
19	Innovation Club	5.00
Total		70.46
Grand Total		70.46

Training & Placement: to be submitted by TPO dept.

Budget of T&P Cell for 2019-20

Sr. No.	Item	Category	Proposed Expenditure	Remark
Employability Enhancement Training				
1	Corporate Training	Aptitude / GD / Mock interview	4.20	70% of 400 students training with Rs1500 per student
2	Psychometric Test	To know students strengths and weaknesses	3.20	Rs 800/- per student remaining amount from students contribution of 400 students
3	Add on courses / Online certification courses / Finishing Courses	Particular programming skill / specialised training to boost employability in particular area of demand	7.50	1.5 lakh will be allotted to each department. Department according to need of skill and available certification will decide the course. It will be monitored by department TPO coordinator
4	Leadership Lectures	Eminent persons from Industries / Corporate Sector / Govt.	1.80	3 expert sessions per semester for all branches 3*2*.3
5	Students Finishing Workshop	Hands on skill	4.80	2 workshop per class per semester for 6 branches with 0.20 per session 1*2*6*0.2
6	GATE Coaching	Boost for career to deserving students	12.00	For total 100 students. 20 meritorious students from each class training with Rs 5000 per student
7	Career Counselling Program	Career in Other than core companies	1.20	2 programs per semester for Competitive exams, Opportunities in Research, Banks and Agriculture 4*.3
8	Internship assistance tro students	Boost for career to deserving students	9.00	Each student from Final and Third year will be supported with Internship assistance worth Rs. 2000 each

Industry Institute Interaction				
1	Industrial Visits,	Field Knowledge	6.00	2 visits per class per semester for 6 branches with .20 per session $2*2*6*0.2$ and for 1 for PG students $6*.1*2$
2	IEB Meeting	Outside Interaction	2.40	one meeting in each semester for 6 branches $2*6*.2$
3	Expert Lectures	Eminent persons from Industries / Corporate Sector / Govt.	3.60	2 expert sessions per class per semester for 6 branches with .05 per session $6*3*4*0.05$
4	Faculty visit to industry	To know current status of technology use	3.60	Each department will arrange 3 Faculty Industrial Visit in a semester. Group of 5 faculty will visit industry on Saturday / Sunday $3*2*6*.1$
5	Industrial Meet	To connect with industry	2.00	One Meet in each Semester
Placement				
1	Phone	Office Expenses	0.10	
2	Membership Fees (CII, MACCIA etc.)	CII, MACCIA etc.	0.50	
3	Tea, Break fast for Guests	For Guests	0.50	
4	Lunch and Hospitality for placement	Placement	2.00	
5	TA DA for TPO staff to attend placement drives, CII, MCAIA, NASSCOM meetings		1.20	
6	Latest LED TV, Camera, Mic system, TAB	Arrange for interview through Video Conferencing	1.60	Some companies are taking demanding such interviews
7	Misc. (TPO Brochure, paper, books Xerox, cartridges etc.)	Office Expenses	1.00	
Grand Total			68.20	

EXAMINATION CELL

Expenditure			
11. Examination Cell (COE)			
Budget provision for various activities to be conducted during 2019-20			
Sr. No	Events	Details	Expected Budget
1	Remuneration to Paper setters	Total subjects for B.Tech, M.Tech and MCA of two sem	4.00
2	Assessment work	Tot.Ans book for S-17, ST-17 & W-17= 20000 @ Rs. 9/-	1.80
3	Honorarium for practical Exam. (Ext. Exam) at dept. level	2 Ext. Exam per programs, total= 52 @ Rs-2000	1.04
4	Honorarium to Exam cell functionaries and Dean Acad.	Dean acad, CoE, Printring Cord, Setting Cord. Assessment Cord .. Rs-34500 per exam.	1.04
5	Honorarium for Theory Exam. (Ext. Exam) at dept. level	Rs-7000/- Per Exam per dept- S-17= 35000, ST-17=15000, W-17= 35000	0.85
a) SubTotal			8.73
Consumable			
6	Stationary : Xerox papers, ESE/ Class test- Answer book, supplements and other exam stationary	As per requirement	4.20
7	Xerox m/c & Printer Catridges and refilling for Printing of Q.P and other laser printers	Catridges: Xerox m/c : 01 no, Printers: 02	0.20
8	Cartiage (RICO) 6 No.		0.12
9	Stensil Roll (RICO) 6 No.		0.20
10	Samsung Xerox Machine toner 4 No.		0.16
11	Samsung Xerox Machine maintainance		0.20
b) Sub Total			5.08
TOTAL			13.81

Grand Total

13.81

Central Library

Proposed Budget for 2019-20

3. State Government Plan Library :

Sr. No.	Component	Budget	Remark
1	Development of Library	3.00	List Enclosed (Annexure A)
2	Book Bank	2.00	List Enclosed (Annexure B)
Total		5.00	

5. Institute Level Funds: to be submitted by concern departments.

8. Library Fee : to be submitted by library dept.

(Books/Furniture, Journals, Software & equipments, refurbishment)

Library Books :

Sr. No.	Author	Title	Publisher, Cost, Copies	Total Cost
1	Development of Library	Separate list attached		7.00
2	Book Bank			3.00
Total				10.00

e books

Sr. No.	Component	Type (Online / Hard Copy)	Quantity	Subscription
1	e_books	online	1500 +	15.00

E-Journals

Sr. No.	Name of Journal	Type (Online / Hard Copy)	Quantity	Subscription
1	IEEE-IEL	Online	184+	32.00
2	ASCE	Online	35	3.00
3	ASME	Online	28	2.50
4	Springer	Online	740	5.00
5	Elsevier-Science Direct	Online	275	7.50
6	Plagiarism Software (Turnitin)	Online	150	5.00
Total				55.00

Print Journals				
Sr. No.	Name of Journal	Type (Hard Copy)	Quantity	Subscription
	CIVIL			
1	NICMAR Journal of construction Management	Jan to Dec 2020	4	0.02
2	IEJ: Civil, Architectural Engg., Environmental Engg., agricultural Engg.,(Series A)	Jan to Dec 2020	4	0.06
3	TERI Information Digest on Energy & Environment	Jan to Dec 2020	4	0.03
4	Indian Geotechnical Journal	Jan to Dec 2020	4	0.04
5	Indian Road Congress Journal + Indian Highways	Jan to Dec 2020	4	0.03
6	Journal of Indian Water Works Association	Jan to Dec 2020	4	0.01
7	Indian Concrete Journal	Jan to Dec 2020	12	0.02
8	Journal of Structural Engineering	Jan to Dec 2020	6	0.03
9	ACI Structural Journal	Jan to Dec 2020	6	0.15
10	ACI Material Journal	Jan to Dec 2020	6	0.15
11	ACI Concrete International Journal	Jan to Dec 2020	12	0.15
12	Bulletin of Material Science	Jan to Dec 2020	6	0.01
13	Journal of Geological Society of India	Jan to Dec 2020	2	0.08
14	New Building Materials & Construction World	Jan to Dec 2020	12	0.02
15	Indian Journal of Engineering & Materials Sciences	Jan to Dec 2020	6	0.02
16	Construction World(12)	Jan to Dec 2020	12	0.03
17	International Journal of Civil Engineering and Construction Technology	Jan to Dec 2020	2	0.03
18	International Journal of Mechanics Structural	Jan to Dec 2020	2	0.03
	Electrical			
19	IEJ: Electrical, Electronics & Telecommunication, Computer,(Series B)	Jan to Dec 2020	4	0.03
20	Journal o Energy Storage & Conversion	Jan to Dec 2020	2	0.03
21	Electrical India	Jan to Dec 2020	12	0.03
22	Power line	Jan to Dec 2020	12	0.03
23	JI of Inc'l Asso.on Electricity Generation Transmission & Distribution	Jan to Dec 2020	2	0.03
24	Power Engineering Journal	Jan to Dec 2020	2	0.03
25	International journal of electric power system Research(2) (Global Research Publication)	Jan to Dec 2020	2	0.03
26	Journal of Central Power Research Institute (4) (Central power Research Institute)	Jan to Dec 2020	4	0.03

	ELECTRONICS & TELECOMMUNICATION			
27	International Journal of Electronics & Telecommunications	Jan to Dec 2020	2	0.03
28	IUP Electrical & Electronics Engineering	Jan to Dec 2020	4	0.02
29	Electronics For You	Jan to Dec 2020	12	0.03
30	Telnet	Jan to Dec 2020	12	0.03
31	IUP Telecommunication	Jan to Dec 2020	4	0.03
32	International Journal of Electrical Systems and Control (IJESC)	Jan to Dec 2020	2	0.04
33	International Journal of Electronics, Computing and Engineering Education	Jan to Dec 2020	2	0.03
34	Indian J. of Advances in Power Electronics	Jan to Dec 2020	2	0.04
	MCA			
35	International journal of computer Science and Information Technology	Jan to Dec 2020	2	0.03
36	International journal of Information Technology and Database Systems	Jan to Dec 2020	2	0.03
37	International journal of Intelligent Information Processing	Jan to Dec 2020	2	0.02
38	International journal of information Analysis and Processing	Jan to Dec 2020	2	0.03
39	International journal of Applied Artificial Intelligence in Engineering System	Jan to Dec 2020	2	0.04
40	International journal of Computational Intelligence Research and Applications	Jan to Dec 2020	2	0.03
41	International journal of Computer Engineering and Software Technology	Jan to Dec 2020	2	0.03
42	International journal of Computer Science and Communication	Jan to Dec 2020	2	0.04
43	International journal of Soft Computing and Bioinformatics	Jan to Dec 2020	2	0.04
44	International journal of Image Processing and Applications	Jan to Dec 2020	2	0.04
45	Linux for You (Now:Open Source For You)	Jan to Dec 2020	6	0.03
46	Digit	Jan to Dec 2020	12	0.04
47	Data Quest	Jan to Dec 2020	24	0.04
48	Developer IQ	Jan to Dec 2020	12	0.04
49	International jl. Of Applied Research on Info.Techgy.& Comput(3) (Indianjournals.com)	Jan to Dec 2020	3	
50	i-manager's Journal of Information Techonology (3) (i-Manager's Publication)	Jan to Dec 2020	4	0.06
51	International Journal of Computer Science & Engineering(2) (Global Research Publication)	Jan to Dec 2020	2	0.03

I.T				
52	Indian Journal of Networks and Applications	Jan to Dec 2020	2	0.03
53	Indian Journal of Advances in Computer Science and Technology	Jan to Dec 2020	2	0.03
54	Indian Journal of Information Security and Computer	Jan to Dec 2020	2	0.03
55	Indian Journal of Wireless and Mobile Communication	Jan to Dec 2020	2	0.03
56	Indian Journal of Computing and High Speed Networks	Jan to Dec 2020	2	0.03
57	Indian Journal in Computer Simulation	Jan to Dec 2020	2	0.03
58	CSI Communications	Jan to Dec 2020	12	0.02
Mechanical				
59	IEJ: Mechanical, Production, Aerospace, Marine Engg.(Series C)	Jan to Dec 2020	4	0.06
60	Manufacturing Technology Today (CMTI)	Jan to Dec 2020	12	0.01
61	Journal of Scientific & Industrial Research	Jan to Dec 2020	12	0.04
62	Journal of Entrepreneurship	Jan to Dec 2020	2	0.03
63	Overdrive	Jan to Dec 2020	12	0.02
64	Journal of Space Craft Technology	Jan to Dec 2020	2	0.01
65	IEJ-Metallurgical & Material / Mining Series	Jan to Dec 2020	2	0.03
66	Industrial Product Finder(12)	Jan to Dec 2020		0.02
67	Indian Journal of Mechanical Engineering and Research	Jan to Dec 2020	2	0.03
68	Indian Journal of Mechatronics	Jan to Dec 2020	2	0.03
69	International Journal of Advanced Manufacturing Systems	Jan to Dec 2020	2	0.03
Science				
70	Pramana Journal of Physics	Jan to Dec 2020	12	0.02
71	Resonance (Journal of Science)	Jan to Dec 2020	12	0.01
72	Advances in Fuzzy Mathematics	Jan to Dec 2020	3	0.03
73	Indian Journal of Physics	Jan to Dec 2020	12	0.06
74	Proceedings-Mathematical Science (4) (Indian Academy of Sciences)	Jan to Dec 2020	4	0.01
75	Indian Journal of Mathematics(3) (Allahabad Mathematical Society)	Jan to Dec 2020	3	0.05
76	Bulletin of the Allahabad Mathematical Society (1) (Allahabad Mathematical Society)	Jan to Dec 2020	1	0.04
77	Journal of Indian Mathematical Society	Jan to Dec 2020	2	0.03
Interdisciplinary				
78	University News	Jan to Dec 2020	52	0.01
79	Frontline	Jan to Dec 2020	26	0.02
80	Outlook	Jan to Dec 2020	52	0.02
81	Readers Digests	Jan to Dec 2020	12	0.01
Proposed Amount- Rs.				2.71

c. Equipment

Sr. No.	Proposed Item	Qty. Required	Unit Cost	Total
1	CCTV Camera/DVR	10	0.11	2.00
2	PDT Portable Data Terminal	3	0.2	0.60
3	KAVYA (Metallice Kiosk cabinet,OPAC)	1	1.1	1.10
4	Laptop	2	0.4	0.80
Total-				4.5

c. Furniture

Sr. No.	Proposed Item	Qty. Required	Unit Cost	Total
1	Supreme make Premium Lacquer finish	45	2500	1.13
Total-				1.13

d. Maintenance Fund

Name of Dept.: Central Library

Sr. No.	Details of Repairs/ Material & Supply/ Maintenance, AMC, lab consumables, spares,	Unit Cost	Qty	Total
1	Slim21 AMC (Slim S/W Support & Upgradation)	2.50	1	0.40
2	Xerox M/C AMC (Maintenance)	0.80	1	0.08
3	Computer (Maintenance)	20.00	50	0.30
4	CCTV AMC	3.00	16	0.25
Total				1.03

Recurring Expendiure

Sr No	Particulars	Estimated Unit Rate
1	Newspapers, Periodicals and Magazines	1.50
2	Binding: Books & Journals, Library Stationary	2.00
3	Manpower (Skilled 2 & Unskilled 4)	6.50
4	Renumeration for Earn & Learn Scheme	1.00
5	Identity Cards (PVC Card,Cleaning Kit,Ribbon,identity card less & Folder)	0.40
6	Pest Control	0.50
7	Sharp AR 5623N,Samsung & Zebra Printer Toner	0.20
Total		12.10

Summary

Sr.No	Particulars	Expenditure	Total
1	3.State Government Plan Library		5.00
2	Library Books :		10.00
3	e books		15.00
4	Journals Online		55.00
5	Print Journals		2.71
6	Maintenance Fund		1.03
7	Equipments		4.50
8	Furniture		1.13
9	Recurring Expendiure		12.10
Total			106.47

Recommended Book List for 2019-20

Sr. No.	Title	Author	Publisher	ISBN	Qty	PRICE	Amount
Department:- Mechanical Engineering							
1	Engineering Design	Dieter George	McGraw Hill Education	1259064859	10	830	8300.00
2	Wiley Acing the GATE: Mechanical Engineering	Tamrakar Ajay Kumar	Wiley	8126573570	6	989	5934.00
3	Shigley's Mechanical Engineering Design - SIE	Budynas R.G.	McGraw Hill Education	933922163X	4	875	3500.00
4	Understanding Digital Signal Processing	Lyons	Pearson Education India	8131764362	10	1049	10490.00
5	Theory of Machines		S Chand	812192524X	10	895	8950.00
6	Theory of Machines		S Chand	812192524X	8	895	7160.00
7	Theory of Machines	Rattan S.S.	McGraw Hill Education	9351343472	5	650	3250.00
8	Theory of Machines	Rattan S.S.	McGraw Hill Education	9351343472	4	650	2600.00
9	Theory Of Machine And Mechanisms Si Edition	Uicker J.J.	Oxford University Press	0199454167	10	745	7450.00
10	The Theory of Machines, 3e	Bevan	Pearson Education India	8131729656	10	619	6190.00
11	Mechatronics: Electronic Control Systems in Mechanical and Electrical Engineering 4/ED	Bolton W	Pearson Education	8131732533	10	759	7590.00
12	Theory Of Machines	Rattan S.S.	McGraw Hill Education	9351343472	10	650	6500.00
13	Introduction to Mechatronics (Oxford Higher Education)	Dr K. K. Appukuttan	Oxford University Press	0195687817	6	450	2700.00
14	Introduction to Mechatronics (Oxford Higher Education)	Dr K. K. Appukuttan	Oxford University Press	0195687817	10	450	4500.00
15	Mechatronics	Singh M.D & Others	Prentice Hall India Learning Private Limited	8120329864	7	375	2625.00
16	Mechatronics: Integrated Mechanical Electronic Systems (WIND)	Ramachandran K.P. & Others	Wiley	9788126518371	8	789	6312.00
17	Mechatronics: Integrated Mechanical Electronic Systems (WIND)	Ramachandran K.P. & Others	Wiley	9788126518371	10	789	7890.00
18	Mechatronics: Electronic Control Systems in Mechanical and Electrical Engineering 4/ED	Bolton W	Pearson Education	8131732533	10	779	7790.00
19	Thermal Engineering	Mahesh Rathore	McGraw Hill Education		10	965	9650.00
20	Thermal Engineering	Mahesh Rathore	McGraw Hill Education		10	965	9650.00
21	Basic & Applied Thermodynamics	Nag P.K.	McGraw Hill Education	0070151318	8	765	6120.00
22	Basic & Applied Thermodynamics	Nag P.K.	McGraw Hill Education	0070151318	10	765	7650.00
23	Thermodynamics: An Engineering Approach (SIE)	Cengel Y.A. & Others	McGraw Hill Education	9339221656	10	835	8350.00
24	Thermodynamics: An Engineering Approach (SIE)	Cengel Y.A. & Others	McGraw Hill Education	9339221656	10	835	8350.00

Department :Electrical/ENTC Engineering							
1	Fundamentals of Signals and Systems (SIE) e/2	Michael Roberts	McGraw Hill Education	0070702217	5	700	3500.00
2	Signals and Systems	Babu P R and Others	Scitech Publications pvt limited	9385983407	10	610	6100.00
3	Signals and Systems	Babu P R and Others	Scitech Publications pvt limited	9385983407	5	610	3050.00
4	Signals and Systems	Babu P R and Others	Scitech Publications pvt limited	9385983407	10	610	6100.00
5	SIGNALS & SYSTEMS 2nd Edition	Hsu H.P	McGraw Hill Education	9780070669185	5	550	2750.00
6	Sliding Modes in Control and Optimization (Communications and Control Engineering)	Vadim Utkin	Springer-Verlag Berlin and Heidelberg GmbH & Co. K	3642843816	3	10655	31965.00
7	Basic Electrical Engineering Revised First Edition	Kulshreshtha D.C.	McGraw Hill Education	0071328963	5	599	2995.00
8	Basic Electrical Engineering	Kothari D.P.& Others	McGraw Hill Education	9780070146112	10	550	5500.00
9	Basic Electrical Engineering	Kothari D.P.& Others	McGraw Hill Education	9780070146112	10	550	5500.00
10	Wiley Acing the GATE: Electrical Engineering (Reprint 2019)	Chatterjee Debashis	Wiley	8126573600	15	979	14685.00
11	Electrical Engineering Principles & Appl	Hambley	Pearson Education India	9332563306	10	769	7690.00
12	Electrical Engineering Principles & Appl	Hambley	Pearson Education India	9332563306	10	799	7990.00
13	Signals and Systems	Babu P R and Others	Scitech Publications pvt limited	9385983407	4	679	2716.00
14	Signals and Systems	Babu P R and Others	Scitech Publications pvt limited	9385983407	5	610	3050.00
15	Signals and Systems	Babu P R and Others	Scitech Publications pvt limited	9385983407	10	610	6100.00
16	Network Analysis	Valkenburg V..	PERSON	9789332550131	3	474	1422.00
17	Circuit Theory	Chakrabarti Abhijit	DHANAPAT RAI	9788177000009	10	475	4750.00
18	Circuits and Networks: Analysis and Synthesis	Sudhakar A	McGraw Hill Education	9339219600	5	535	2675.00
19	Circuits and Networks: Analysis and Synthesis	Sudhakar A	McGraw Hill Education	9339219600	5	535	2675.00
20	Op-Amps and Linear Integrated Circuits	Gayakwad R.A.	Pearson Education	9332549915	10	499	4990.00
21	Op-Amps and Linear Integrated Circuits	Gayakwad R.A.	Pearson Education	9332549915	5	519	2595.00
22	Op-Amps and Linear Integrated Circuits	Gayakwad R.A.	Pearson Education	9332549915	10	519	5190.00
23	Electrical Power Systems Quality	Dugan R.C.	McGraw Hill Education	1259005577	4	585	2340.00
24	Electrical Power Systems Quality	Dugan R.C.	McGraw Hill Education	1259005577	10	585	5850.00
25	DISTRIBUTED POWER GENERATION: PLANNING AND EVALUATION	Willis H.Lee	CRC /MBS	1498771831	10	21622	216220.00
26	FUNDAMENTALS OF ELECTRICAL DRIVES	Gopal K. Dubey	Narosa	9788173194283	10	405	4050.00
27	CIRCUIT THEORY Analysis And Synthesis	Abhijit Chakrabarti	Dhanpat Rai & Co. Private Limited	9788177000009	5	475	2375.00
28	Power System Stability And Control	Kundur Prabha	McGraw Hill Education	9780070635159	10	899	8990.00

29	Modern Power System Analysis	Kothari D.P.	McGraw Hill Education	0071077758	6	599	3594.00
30	Modern Power System Analysis	Kothari D.P.	McGraw Hill Education	0071077758	10	599	5990.00
31	Modern Power System Analysis	Kothari D.P.	McGraw Hill Education	0071077758	3	599	1797.00
32	Power System Analysis	John Grainger & Other	McGraw Hill Education	9780070585157	10	695	6950.00
33	Power System Analysis	John Grainger & Other	McGraw Hill Education	9780070585157	10	695	6950.00
34	Network Analysis	Valkenburg M.E.	PRENTICE-HALL OF INDIA PVT.LTD.	9789332550131	5	474	2370.00
Department :Civil Engineering							
1	Wiley Acing the GATE: Civil Engineering (Reprint 2019)	Mungule Mahesh	Wiley	9788126573615	5	929	4645.00
2	Strength Of Materials	Ramamrutham S Narayanan R	DHANPAT RAI PUBLISHING COMPANY	9352164385	10	770	7700.00
3	Strength Of Materials	Ramamrutham S Narayanan R	DHANPAT RAI PUBLISHING COMPANY	9352164385	10	770	7700.00
4	Strength Of Materials	Ramamrutham S Narayanan R	DHANPAT RAI PUBLISHING COMPANY	9352164385	10	785	7850.00
5	A Textbook of Strength of Materials	Bansal R.K.	Laxmi Publications	8131808149	15	750	11250.00
6	A Textbook of Strength of Materials	Bansal R.K.	Laxmi Publications	8131808149	10	750	7500.00
7	A Textbook of Strength of Materials	Bansal R.K.	Laxmi Publications	8131808149	4	750	3000.00
8	Basic Structural Analysis	Reddy C.S.	McGraw Hill Education	0070702764	5	675	3375.00
9	Practical Finite Element Analysis	Gokhale N.S.& Others	Finite To Infinite	8190619500	10	650	6500.00
10	GEOTECHNICAL ENGINEERING	Gulhati S	McGraw Hill Education	0070588295	5	935	4675.00
11	Basic & Applied Soil Mechanics	Ranjan G & Rao A S R	New Age International	9788122440393	10	550	5500.00
12	Soil Mechanics And Foundation Engineering	Arora K.R.	STANDARD PUBLISHER DIST.	9788180141126	10	449	4490.00
13	Soil Mechanics and Foundations	Punmia B.C	Laxmi Publications	9788170087915	5	695	3475.00
14	Soil Mechanics and Foundations	Punmia B.C	Laxmi Publications	9788170087915	4	695	2780.00
15	Soil Mechanics and Foundations	Punmia B.C	Laxmi Publications	9788170087915	5	695	3475.00
16	Soil Mechanics and Foundations	Punmia B.C.	Laxmi Publications	8170087910	10	710	7100.00
17	Harbour Dock and Tunnel Engineering	Srinivasan R	Charotar Publishing House Pvt. Ltd.	9385039199	5	160	800.00
18	Bridge Engineering	Ponnuswamy S	McGraw Hill Education	9339221079	10	1075	10750.00
19	Bridge Engineering	Ponnuswamy S	McGraw Hill Education	9339221079	5	1075	5375.00
20	Bridge Engineering	Ponnuswamy S	McGraw Hill Education	9339221079	10	1075	10750.00
21	Bridge Engineering	Rangwala	Charotar Publishing House Pvt. Ltd.	9385039083	5	200	1000.00
22	Bridge Engineering	Rangwala	Charotar Publishing House Pvt. Ltd.	9385039083	4	200	800.00
23	Bridge Engineering	Rangwala	Charotar Publishing House Pvt. Ltd.	9385039083	5	175	875.00

24	Railway Bridge And Tunnel Engineering	Rangawala	Charotar Publishing House Pvt. Ltd.	938503913X	10	350	3500.00
25	Railway Bridge And Tunnel Engineering	Rangawala	Charotar Publishing House Pvt. Ltd.	938503913X	5	350	1750.00
26	Principles and Practices of Bridge Engineering	BINDRA S.P.	DHANAPAT RAI	9788189928841	10	235	2350.00
27	Railway Bridge And Tunnel Engineering	Rangawala	Charotar Publishing House Pvt. Ltd.	938503913X	10	350	3500.00
28	Railway Bridge And Tunnel Engineering	Rangawala	Charotar Publishing House Pvt. Ltd.	938503913X	10	350	3500.00
29	Bridge Engineering	Rangawala	Charotar Publishing House Pvt. Ltd.	9385039083	5	200	1000.00
30	Bridge Engineering	Rangawala	Charotar Publishing House Pvt. Ltd.	9385039083	10	200	2000.00
31	Bridge Engineering	Ponnuswamy S	McGraw Hill Education	9339221079	5	1075	5375.00
32	Bridge Engineering	Ponnuswamy S	McGraw Hill Education	9339221079	5	1075	5375.00
33	Bridge Engineering	Ponnuswamy S	McGraw Hill Education	9339221079	10	1125	11250.00
34	Bridge Engineering	Ponnuswamy S	McGraw Hill Education	9339221079	10	1125	11250.00
35	Environmental Engineering	Peavy H.S.	McGraw Hill Education	9351340260	5	1050	5250.00
36	Environmental Engineering	Peavy H.S.	McGraw Hill Education	9351340260	4	1095	4380.00
37	Environmental Engineering	Peavy H.S.	McGraw Hill Education	9351340260	5	1095	5475.00
38	Sewage Waste Disposal and Air Pollution Engineering	Garg S.K.	Khanna	8174092307	10	490	4900.00
39	Wastewater Engineering: Treatment And Reuse	Metcalf & Others	McGraw Hill Education	0070495394	10	1495	14950.00
40	Wastewater Engineering: Treatment And Reuse	Metcalf & Others	McGraw Hill Education	0070495394	10	1495	14950.00
41	Wastewater Engineering: Treatment And Reuse	Metcalf & Others	McGraw Hill Education	0070495394	10	1550	15500.00

Department :MCA							
1	Advance Computer Architect: Parallelism, Scalability, Programmability	Hwang K & Others	McGraw Hill Education	9339220927	10	810	8100.00
2	Introduction to Algorithms (Eastern Economy Edition)	Cormen Thomas H	PHI Learning Pvt. Ltd. (Originally MIT Press)	9788120340077	10	1695	16950.00
3	Fundamentals of Computer Algorithms	Horowitz Ellis	Universities Press	8173716129	5	495	2475.00
4	Theory of Computer Science	Mishra K L P	PHI	9788120329683		275	750.00
5	Introduction to Automatu Theory , Languages & Computation	Hopcroft J E & Others	PERSON	9788131720479	10	729	7290.00
6	Artificial Intelligence	Rich Elaine	McGraw Hill Education	0070087709	10	760	7600.00
7	Artificial Intelligence	Rich Elaine	McGraw Hill Education	0070087709	8	760	6080.00
8	Artificial Intelligence 3e: A Modern Approach	Russell S.J.	Pearson Education India	9332543518	10	879	8790.00
9	Wiley Acing the GATE: Computer Science and Information Technology (Reprint 2019)	Verma Anil Kumar	Wiley	9788126573585	5	849	4245.00
10	Artificial Intelligence	Winston P.H.	Pearson Education	8131715051	5	839	4195.00
11	Angular: Up and Running- Learning Angular, Step by Step	Seshadri Shyam	Shroff/O'Reilly	9352137426	5	625	3125.00
12	Professional Angular	Karpov Valeri	Wiley	8126556439	4	649	2596.00
13	Spring in Action, 4ed (Manning)	Walls Craig	Dreamtech Press	9789351197997	5	799	3995.00
14	Embedded System Design: Embedded Systems Foundations of Cyber-Physical Systems, and the Internet of Things	Marwedel Peter	Springer International Publishing AG	3319560433	6	6299	37794.00
15	A First Course in Artificial	Khemani Deepak	McGraw Hill	1259029980	10	640	6400.00
16	The Sciences of the Artificial	Simon H.A	MIT Press	9780262691918	5	3393	16965.00
17	Design Science Research: A Method for Science and Technology Advancement	Dresch Aline	Springer International Publishing AG	9783319073736	10	7103	71030.00
18	An Introduction to Design Science	Johannesson Paul	Springer	3319361104	10	4439	44390.00
19	Data Warehousing: Fundamentals for IT Professionals, 2ed	Ponniah Paulraj	Wiley	8126537299	5	619	3095.00
20	Digital Image Processing		McGraw Hill Education	0070144796	10	625	6250.00
21	Digital Image Processing 3e	Gonzalez R C	Pearson Education India	9332570329	5	799	3995.00
22	Digital Image Processing 3e	Gonzalez R C	Pearson Education India	9332570329	10	799	7990.00
23	Real-Time Systems: Design Principles for Distributed Embedded Applications (Real-Time Systems Series)	Kopetz Hemann	Springer-Verlag New York Inc.	1441982361	10	6212	62120.00
24	Digita image processing	Jayaraman S & Others	MGH	9780070144798	4	799	3196.00
25	Real Time Systems	Krishna C.M. & Others	McGraw Hill Education	0070701156	5	700	3500.00

26	Data Warehousing: Fundamentals for IT Professionals, 2ed	Ponniah Paulraj	Wiley	8126537299	10	679	6790.00
27	Fundamentals of Digital Images Processin	Jain	Pearson Education India	933255191X	5	325	1625.00
28	Computer Organization & Architecture 10/	Stallings W	Pearson Education India	933257040X	10	749	7490.00
29	Cyber Security	Nina Godbole Nina	Wiley	8126521791	10	769	7690.00
30	Introduction to the Theory of Computation	Sipser Michael	Cengage	8131525295	6	499	2994.00
31	Image Processing, Analysis and Machine Vision with MindTap	Sonka M	Cengage India Private Limited	9386858142	8	750	6000.00
32	Computer Organization	HAMACHER C & Others	McGraw Hill Education	1259005275	10	760	7600.00
33	Digital Image Processing and Analysis	Chanda	Prentice Hall India Learning Private Limited	8120343255	10	325	3250.00
34	Computer Architecture and Organization	Hayes p	McGraw Hill Education	1259028569	10	775	7750.00
35	Computer Architecture and Organization: An Integrated Approach	Vincent Heuring	Wiley	8126511982	6	699	4194.00
36	Game Engine Architecture, Third Edition	Gregory Jason	CRC Press	1138035459	10	6957	69570.00
37	Computer Architecture and Organization	Hayes p	McGraw Hill Education	1259028569	10	775	7750.00
38	Information Retrieval – Implementing and Evaluating Search Engines (The MIT Press)	Büttcher Stefan	MIT Press	0262528878	5	3066	15330.00
39	Computer Architecture and Organization: Design Principles and Applications	Govindarajalu B.	McGraw Hill Education	0070152772	10	825	8250.00
40	Microgrids: Architectures and Control (Wiley – IEEE)	Hatziargyriou Nikos	Wiley-Blackwell	9781118720684	5	9056	45280.00

Department : Science							
1	Wiley Acing the GATE: Engineering Mathematics and General Aptitude (Reprint 2019)	Maini Anil K	Wiley	8126573627	15	749	11235.00
2	Advanced Engineering Mathematics, 10ed, ISV	Kreyszig E	Wiley	8126554231	10	869	8690.00
3	Higher engineering mathematics	Grewal B.S.	Khanna Publication	9788193328491	10	799	7990.00
4	Numerical Methods for Engineers	Chapra S.N.	McGraw Hill Education India Private Limited	9352602137	10	875	8750.00
5	Numerical Methods in Engineering & Science: with Programs in C and C++	Grewal B.S.	Khanna	817409248X	10	590	5900.00
6	Introductory Methods of Numerical Analysis	Sastry S.S	Prentice Hall India Learning Private Limited	8120345924	10	295	2950.00
7	Matrix and Linear Algebra Aided with MATLAB	Bhushan Datta	PHI	8120352866	15	625	9375.00
8	Linear Algebra: A Geometric Approach	Kumaresan S.	Prentice Hall India Learning Private Limited	8120316282	10	250	2500.00
9	Fuzzy Sets and Fuzzy Logic: Theory and Applications	Klir G.J. & Others	Pearson Education India	9332549427	10	569	5690.00
10	Graph Theory and Its Applications (Textbooks in Mathematics)	Gross J.L. & Others	Chapman and Hall/CRC	158488505X	10	6859	68590.00
11	Linear Algebra	Hoffman Kenneth.M.	Prentice Hall India Learning Private Limited	9332550077	10	389	3890.00
12	Algebra	Artin M.	Pearson Education India	9332549834	10	499	4990.00
13	Algebra	Artin M.	Pearson Education India	9332549834	10	499	4990.00
14	Discrete Mathematics and Its Applications (SIE)	Rosen Kenneth	McGraw Hill Education	0070681880	10	775	7750.00
15	Linear Algebra and Its Applications	Strang Gilbert	McGraw Hill Education	0071070141	10	499	4990.00
TOTAL							15.01

Recommended Book List for 2019-20 Book Bank

Department : Mechanical Engineering

SN	Title	Author	Publisher	ISBN	Qty	PRICE	Amount
1	Internal Combustion Engines	Ganesan V	McGraw Hill Education	9781259006197	5	650	3250.00
2	Renewable Energy Systems: Advanced Conversion Technologies and Applications (Industrial Electronics)	Luo Fang Lin & Others	CRC Press	1138077585	5	475	2375.00
3	Non-Conventional Energy Resources	Khan B.H.	McGraw Hill Education India Private Limited	9789352601882	5	350	1750.00
4	Solar Energy	Sukhatme S.P. & Others	McGraw Hill Education	9352607112	5	550	2750.00
5	Non - Conventional Energy Sources.	RAI G D	KHANNA PUBLISHWRS	9788174090738	5	550	2750.00
6	Non - Conventional Energy Sources.	RAI G D	KHANNA PUBLISHWRS	9788174090738	5	550	2750.00
7	Solar Energy : Fundamentals and Applications	Garg H	McGraw Hill Education	0074636316	5	750	3750.00
8	Pneumatic Controls (WIND)	Joji P.	Wiley	8126515422	5	850	4250.00
9	Textbook of Refrigeration and Air-conditioning (M.E.)	KHURMI R.S.	S. Chand & Co,	9788121927819	10	500	5000.00
10	Basic Refrigeration and Air Conditioning	Ananthanarayanan P.N	McGraw Hill Education	1259062708	5	800	4000.00
11	Refrigeration and Air Conditioning	Prasad Manohar	New Age International Pvt Ltd	9788122436945	10	550	5500.00
12	Principles of Refrigeration,	DOSSAT R.J.	Pearson Education India	9788177588811	5	2000	10000.00
13	Refrigeration & Air Conditioning (A Course in)	ARORA C.P. & Others	DHANPAT RAI & SONS	9789351340164	15	380	5700.00

Department :Electrical Engineering

1	Power System Operation and Control, 1e	Sreenivasan G	Pearson Education India	8131726622	5	695	3475.00
2	Power System Harmonic Analysis	Arrillaga J.	Wiley India Exclusive	812654788X	5	850	4250.00
3	Power System Stability, Vol - II,	Kimbark	Wiley	8126512571	5	949	4745.00
4	Electric Power Systems, 5ed (WSE)	Weedy B.M.	Wiley	8126540729	5	584	2920.00
5	Principles of Power System	Mehta V.K. & Others	S Chand	9788121924962	5	595	2975.00
6	Electrical Power Systems	Uppal S.L.	Khanna	8174092382	5	205	1025.00
7	Principles of Power System	Mehta V.K. & Others	S Chand	9788121924962	5	615	3075.00
8	Principles of Power System	Mehta V.K. & Others	S Chand	9788121924962	10	615	6150.00

9	Operation of Restructured Power Systems (Power Electronics and Power Systems)	Bhattacharya Kankar	Springer	1461355672	5	13277	66385.00
10	Microwave Engineering	Pozar D.M.	Wiley	8126541903	10	729	7290.00
11	Power System Protection and Switchgear	Ram Badri & Others	McGraw Hill Education	9780071077743	5	565	2825.00
12	Power System Analysis	John Grainger & Other	McGraw Hill Education	9780070585157	10	725	7250.00
13	Op-Amp and Linear IntegAmountd Circuits	Ramakant A. Gayakwad			5	800	4000.00
14	Circuit & Network – Analysis & Synthesis	A. Sudhakar			5	550	2750.00
15	Electrical Circuit Analysis”	Soni Gupta			5	2000	10000.00
16	Engineering Circuit Analysis	William H Hayt			5	450	2250.00
17	Network Analysis	M.E.Van Valkenburg			5	650	3250.00
18	Signals & system	Hsu			5	475	2375.00
19	Signals & system	Ramesh Babu			10	350	3500.00
Department :Civil Engineering							
1	Surveying Vol., I, II and III	Dr. B.C. Punmia			5	550	2750.00
2	Surveying Vol., I&II	S. K. Duggal			5	650	3250.00
3	Surveying and Levelling	N.N. Basak			5	450	2250.00
4	Surveying Vol., I, II and III	Dr. K.R. Arora			5	575	2875.00
5	Soil Mechanics and Foundations	B. C. Punmia			5	650	3250.00
6	Soil Mechanics and Foundation Engineering	K.R. Arora			5	600	3000.00
7	Fluid Mechanics and Hydraulic Machines	Dr. R.K.Bansal			5	500	2500.00
8	Surveying Vol., I, II and III	Dr. K.R. Arora			5	575	2875.00
9	Soil Mechanics and Foundations	B. C. Punmia			5	650	3250.00
10	Soil Mechanics and Foundation Engineering	K.R. Arora			5	600	3000.00
11	Fluid Mechanics and Hydraulic Machines	Dr. R.K.Bansal			5	500	2500.00
12	Construction Planning, Equipment and Methods	t Peurifoy & Other	McGraw Hill Education	9780070706996	10	799	7990.00
13	Construction Planning Equipment & Methods	Peurifoy Robert & Others	McGraw Hill	0070706999	5	825	4125.00
14	Construction Planning, Equipment and Methods	t Peurifoy & Other	McGraw Hill Education	9780070706996	15	825	12375.00
15	Estimating And Costing in Civil Engineering (Theory & Practice)	Dutta B.N.	UBS Publishers' Distributors Pvt Ltd	8174767703	5	645	3225.00
16	Estimating And Costing in Civil Engineering (Theory & Practice)	Dutta B.N.	UBS Publishers' Distributors Pvt Ltd	8174767703	10	645	6450.00
17	Building Materials	S.K. Duggal	NEW AGE	8122433790	5	350	1750.00
18	Building Materials	S.K. Duggal	NEW AGE	8122433790	10	350	3500.00

19	Estimating And Costing in Civil Engineering (Theory & Practice)	Dutta B.N.	UBS Publishers' Distributors Pvt Ltd	8174767703	5	695	3475.00
20	Estimating And Costing in Civil Engineering (Theory & Practice)	Dutta B.N.	UBS Publishers' Distributors Pvt Ltd	8174767703	10	695	6950.00
21	Limit State Design in Structural Steel	Shiyekar M R	PHI Learning	8120353501	10	943	9430.00
22	A Text-Book of Building Construction	Arora S.P. & Others	Dhanpat Rai Publications	9788189928803	5	510	2550.00
23	Building Construction	Punmia P.C.	Laxmi Publications	9788131804285	5	550	2750.00
Department : MCA							
1	Computer Organization	HAMACHER C & Others	McGraw Hill Education	1259005275	10	765	7650.00
2	Human-Computer Interaction, 3e	Dix A. & Other	Pearson Education India	8131717038	15	929	13935.00
3	Cyber Security	Nina Godbole Nina	Wiley	8126521791	5	809	4045.00
4	Compilers : Principles Techniques & Tools	AHO A V	Person	97893325186660	15	899	13485.00
5	Digital Signal Processing Using MATLAB: A Problem Solving Companion	Ingle V.K.	Cengage Learning India Pvt. Ltd.	9386668114	5	599	2995.00
6	Fundamentals of Game Design, 3e	Adams	Pearson Education India	9332540241	5	769	3845.00
7	Testing in 30+ Open Source Tools With CD	Shende R	Shroff Publisher	9350237121	5	975	4875.00
8	Make: Getting Started with Raspberry Pi	Richardson M & Other	Shroff Publishers	9352134508	15	375	5625.00
9	Embedded C	PONT	Pearson Education India	9788131715895	5	589	2945.00
10	Enterprise Resource Planning: Concepts and Practice	Garg V.K.	Prentice Hall India Learning Private Limited	9788120322547	5	175	875.00
11	Embedded C	PONT	Pearson Education India	9788131715895	5	619	3095.00
12	Embedded Systems	Kamal Raj	McGraw Hill Education	9789332901490	5	699	3495.00
13	ERP	Leon.Alexis	McGraw Hill Education	9383286644	5	575	2875.00
14	ERP	Leon.Alexis	McGraw Hill Education	9383286644	5	575	2875.00
15	Spring & Hibernate	Kumar Santosh K	MGH	9781259063725	5	685	3425.00
16	Data Mining: Concepts and Techniques	Han J	Elsevier	9380931913	15	565	8475.00
17	Fundamentals of Computer Algorithms(second edition)	Horowitz S	Universities Press	9788173716126	10	495	4950.00

18	Fundamentals of Computer Algorithms(second edition)	Horowitz S	Universities Press	9788173716126	5	495	2475.00
19	Fundamentals of Computer Algorithms(second edition)	Horowitz S	Universities Press	9788173716126	10	495	4950.00
20	Database Management Systems	Ramakrishnan R & Others	McGraw Hill Education	9339213114	5	799	3995.00
21	Data Mining	Tan Pang-Ning	Person	9789332571402	5	749	3745.00
22	Fundamentals of Database System	Elmasri Ramez	Person	9789332582705	4	849	3396.00
23	Database System Concepts	Silberschatz	McGraw Hill Education	9332901384	5	860	4300.00
24	Introduction to Database Systems	Date C J	PERSON	9788177585568	4	879	3516.00
25	Developing Web Applications	Savaliya M.T.	Wiley	8126538678	5	379	1895.00
26	Data Communications and Computer Networks	Gupta P.C	Prentice Hall India Learning Private Limited	8120348648	5	495	2475.00
27	Data Mining	Dunhma M.H.	Person	9788177587852	12	669	8028.00
28	Mastering Cloud Computing	Buyya R & Others	McGraw Hill Education	1259029956	5	675	3375.00
29	TCP/IP Protocol Suite e/4	Forouzan B.A.	McGraw Hill Education	9780070706521	15	775	11625.00
30	Business Intelligence and Analytics: Systems for Decision Support	Turban E & Others	Pearson Education	9352866487	5	799	3995.00

Department : Science

1	Engineering Physics	Rajendran V	McGraw Hill Education	0071070141	15	585.00	8775
2	Engineering Physics	Rajendran V	Wiley	9788126552566	10	585.00	5850
3	Principles of Physics, 10ed, ISV	Walker J & Others	New Age International	9789386070920	5	899.00	4495
4	Solid State Physics (Multi Colour Edition)	Pillai S.O	New Age International	9789386070920	10	699.00	6990
5	Higher engineering mathematics	Grewal B.S.	Khanna Publication	9788193328491	10	799.00	7990
6	Numerical Methods for Engineers	Chapra S.N.	McGraw Hill Education India Private Limited	9352602137	10	875.00	8750
7	Numerical Methods in Engineering & Science: with Programs in C and C++	Grewal B.S.	Khanna	817409248X	10	590.00	5900
8	Introductory Methods of Numerical Analysis	Sastry S.S	Prentice Hall India Learning Private Limited	8120345924	10	295.00	2950
9	Matrix and Linear Algebra Aided with MATLAB	Bhushan Datta	PHI	8120352866	10	625.00	6250

10	Linear Algebra: A Geometric Approach	Kumaresan S.	Prentice Hall India Learning Private Limited	8120316282	10	250.00	2500
11	Fuzzy Sets and Fuzzy Logic: Theory and Applications	Klir G.J. & Others	Pearson Education India	9332549427	10	569.00	5690
Total in Rupees							5,03,760
TOTAL							5.04

Hostel Fees Fund

Name of Dept.: Hostel (B,C,D , M & Jijau)

List of Equipment to be purchase for the year 2019-20

Sr. No.	Proposed Item with specification	Qty. Required	Estimated Unit Rate	Estimate Amount	Justification
1	Hostel Cot Size 2.5*6"	100	0.025	2.50	To provide students at hostel
2	Hostel Study Table 2.5*2"	100	0.015	1.50	To provide students at hostel
3	Study Chairs (Powder Coated)	100	0.0015	1.50	To provide students at hostel
4	Mess Table Stainless Still Top with perforated sheet sitting bakda in M.S.	12	0.25	3.00	In the Dinning Hall of the Mess
5	Printer Toner Refill	5	0	0.20	Hostel Documentation
6	Plumbing Material	All Hostel	Lumsum	3.50	Hostel Documentation
7	New Solar Water System	2	1.5	3.00	For the J Girls Hostel& G Guest Room
8	Mobile Phones along with Sim Cards	8	0.05	0.40	For the Communication Purpose of Watchman & Warden
9	Sintex Water Tank 2000 lit. & 5000 Lit.	All Hostel	0.04	2.00	Old Tank Damage Hence Required new Purchase all 5 Hostel
10	New Electrical material (Tube, Choke, Wire, MCB.etc	7 Hostel	Lumsum	5.00	For the Electrical Matainance of All Hostel
11	Waste to Compose Plant(WTC)	1 Mess	5	5.00	To make Environmental Hygine in the campus
12	Installation Waste Water Treatment Plant at each hostels and staff Quarters	1	3	3.00	To make Environmental Hygine in the campus
TOTAL				30.60	

Hostel Fees Fund

Name of Dept.: Hostel (B,C,D , M & Jijau)

List of Hostel Maintenance work for the year 2019-20

Sr. No.	Name of Item	Details of Repair	Approximate Unit Rate	Estimate Amount	Justification
1	Outer Colouring of Hostel Block B	Outside Whole Buldings	Lumsum	4.00	To improve ambience at hostel
2	Outer Colouring of Hostel Block B	Outside Whole Buldings	Lumsum	4.00	To improve ambience at hostel
3	Coloring of Hostel Rooms D	62 Rooms	0.01	4.00	To improve ambience at hostel
4	Outer Colouring of Hostel Block D	Outside Whole Buldings	Lumsum	6.00	To improve ambience at hostel
5	Coloring of Hostel Rooms M (P.G.)	20 Rooms	0.01	2.00	To improve ambience at hostel
6	Outer Colouring of Hostel Block M (P.G.)	Outside Whole Buldings	Lumsum	2.00	To improve ambience at hostel
7	Pest Control (1 Year)	5 Hostel	0.2	1.00	For Student safety
8	Water Tank cleaning	5 Hostel	Lumsum	0.75	To maintain Hygen
9	Hostel cleaning	5 Hostel	Lumsum	9.00	To maintain Cleanliness
10	Electrician Honorarium	5 Hostel	Lumsum	1.50	Electrician Honorarium
11	Plumber Honorarium	5 Hostel	Lumsum	1.50	Plumber Honorarium
12	Carpainter Material & Honorar	5 Hostel	Lumsum	1.50	To repair Door, window etc.
13	Solar Maintenance	8 Solar System	0.5	4.00	To maintain Solar system
14	Mobile Recharge	All Hostel	Lumsum	0.10	To Recharge Watchman & Warden Mobiles
15	Parking Stands	4 Hostel	0.1	4.00	For Vehical Parking of Hostel Students (B, C, D. P.G.)
16	Mosquito Net (Ground Floor of each Hostel)	All Hostel	Lumsum	2.00	For Student safety
17	Dish T.V. Recharge With HD & Eklavya Channel	5 Hostel	0.01	0.50	For Education & Entertainment Of Student
18	Gardening and Grass Cutting	7 Hostel	Lumsum	2.50	For Beautification & Ambience at Hostel (B,M,C, D, Jijau)
19	Hostel Ganesh Festival	5 Hostel	0.2	1.00	For Student Tradition
20	Hostel Clark (Misc.Allow.)	1	0.02	0.02	For Petrol Mobile Recharge.Etc.
21	Honorarium Of Doctor and Medicine	1	-	2.00	Honorarium Of Doctor per anum
22	Hostel Clark	1	0.01	1.00	Girls & Boys Hostel Office
23	Plumbing Material	For 7 Hostel	0.50	3.00	Hostel Plumbing Maintenance
24	Sefty Tank, Dranage Line & Chambers Cleaning (1 Year)	For 3 Hostel	1.0 Per Hostel	3.00	For Environment Purpose
25	All Mess Colouring Inner & Outer Side	-	Lumsum	6.00	To improve ambience at Mess
26	Maintenance of Waste Water Treatment Plant	1	Lumsum	3.00	Plumbing & other repair work
TOTAL				69.37	

GRAND TOTAL

99.97

9. Internet Fee : Budget for the year 2019-20

MAINTAINANCE

Name of Dept.:		Computer Center and Data Center				
Sr. No	Name of Dept	Details of Repairs/ Material & Supply/ Maintenance, AMC, lab consumables, spares,	Unit Cost	QTY	Total (Rs. in lacs)	Justification
1	Link load balancer	For load balancing of Internet leased line.	1	4	4.00	To balance the load between two ISP
2	Oracle 10g and Server for other data base software	Database server	1	3.5	3.50	Data base server requirement of data center for all the data in the campus
3	Wifi Controller & wifi License	For Manage Wifi centrally	80	5.5	5.50	To control each acces point in the campus
4	Server Rack	To install Server centrally	2	0.6	0.60	For hosting HPC cloud servers
5	Laptop	For Network Testing of CWN	2	0.8	0.80	For testing connections
6	Mail Server	To deploy institute mailing system	1	3.5	3.50	For having acces to mails in the college
7	Moodle Server	To maintain online access of data and e-learning platform.	1	3.5	3.50	Up gradation of old server to new moodle server with software
8	NAS Server	To maintain network	1	3.5	3.50	For Backup
9	RFID based monitoring system	For digitization of the campus	1	10	10.00	For library and student tracing & user ID identification in the campus for all students
10	Internet Fee	Internet fee of BSNL Line	1	20	20.00	BSNL payment charges
11	Cisco Switches	Cisco Switches maintainance /warranty extended for internet of CWN	70	6	6.00	Warranty renovation
					60.90	

GRAND TOTAL

60.90

MODROB**Master of Computer Application**

Sr. No	Particulars	Qty	Amount	Justification
1	Laptop	3	1.50	for Staff use
2	Printers latest laser printer with scanner 3 in one	2	0.30	for Department use
	Total	5	1.80	

Mechanical Department

Sr. No	Particulars	Qty	Amount	Justification
1	RPS of A. T. Pise	1	15.00	
	Total	1	15.00	

GRAND TOTAL**16.80**

TEQIP-III -Budget

Activities	Sub Component	Budget 2019-20	
1 - Improving Quality & Equity in Focus States	1.3.1 - Procurement of Goods	1.3.1.1 - Equipments	292.30
		1.3.1.2 - Learning resources	
		1.3.1.3 - Furniture	
		1.3.1.4 - Minor civil works	
	1.3.2 - Academic Processes	1.3.2.1-Improve Students Learning	143.57
		1.3.2.10 - Services	
		1.3.2.11 - Industry-Institute Interaction	
		1.3.2.2 - Assistantships	
		1.3.2.3-Graduates Employability	
		1.3.2.4-Faculty/staff Development & Motivation	
		1.3.2.5-Reserach & Devolopment	
		1.3.2.6-MOOCs & Digital Learning	
		1.3.2.7-Mentoring/twining System	
	1.3.2.8-Reforms & Governance		
	1.3.2.9 - Management capacity development		
1.3.3 - Operating Costs	1.3.3.1-Consumables	7.65	
	1.3.3.2-Operation & Maintenance & Equipments		
	1.3.3.3 - Office expenses		
	1.3.3.4-Meetings		
	1.3.3.5 - Hiring of vehicles		
	1.3.3.6 - Travel cost		
	1.3.3.7 - Salary		
GRAND TOTAL		443.51	

GARDENING

Sr. No.	Particulars	Budget 2019-20
1	To Prepare & Design total Project Master Landscape Layout, Landscape Theme & Presentation	0.50
2	Purchase of grass cutting and Lawn cutting equipment purchase	5.00
3	Lawn Plantation, Tree Plantation & Fountain in Circle in Front Main Building of GCE, KARAD	10.00
4	Maintenance of Garden Two Professional Gardener (माळी) and Six Worker (तीन स्त्रिया आणि तीन पुरुष)	6.00
5	Plumbing of Gardening & Landscaping , Purchasing (Pipe & Other Items)	1.00
TOTAL		22.50

राष्ट्रीय सेवा योजना - N.S.S.

Sr. No.	Particulars	Budget 2019-20
1	साधन-सामुग्री खरेदी करणे (उदा - फावडे,कुदळ,घमेले,झारी,खुरपे ई.)	0.35
2	झाडे लावणे, बी-बीयाणे, रोपे, कलमे ई.	0.50
3	स्वच्छता भारत अभियान	0.05
4	ग्रामीण भागातील स्वच्छता	0.05
5	अंध, अपंग, मुकबधीर, कर्णबधीर मुलांसाठी शालोपयोगी मदत	0.15
6	श्रमदान	0.02
7	प्लास्टिक समस्या विषयक	0.04
8	पाणी समस्या विषयक (Water pollution)	0.02
9	हवा व वीज बचत विषयक (Air pollution)	0.04
10	प्रदूषण मुक्त रेली	0.05
11	पाहुणे अधिव्याख्यातांचे (TA, DA & Honorarium)	0.15
12	रक्तदान शिबिर आयोजन	0.20
TOTAL		1.62

Dean Office

c) Equipment replacement Fund: (for equipments , furniture, minor refurbishment)

List of Equipment for the Year 2019-20					
Sr. No.	Proposed Item with specification	Qty . Required	Estim. Unit rate	Estim. Amt (in lacs)	Justification
1	Punching Machine	5	0.008	0.04	Heavy Duty for Big size Punch
2	Punching Machine (Jumbo)	2	0.40	0.04	Heavy Duty for Big size Punch
3	Desktop computers	3	0.40	1.20	Paper Assessment, Result Processing, Record Maintaining and day to day Office work
4	Heavy Duty Scanner	1	0.40	0.40	
5	Printer small	3	0.10	0.30	
6	Stappler Machin (Jumbo)	2	0.40	0.04	
Total				2.02	

List of Furniture for the Year 2019-20					
Sr. No.	Proposed Item with specification	Qty . Required	Estim. Unit rate	Estim. Amt (in lacs)	Justification
1	Notice boards	2	0.03	0.06	Display of notices related to exam., scholarship etc. in the new area (Back side of Academic Section)
2	Documment Storage for Dean Office and Examination	2	2.00	4.00	Safty storage for documents related Dean office and Examination
3	Wooden Chairs and Cussions	12	0.05	0.60	For Dean office staff. Now using already scrapped chairs
4	Chairs	5	0.03	0.15	For guests
5	Storage Cupboards	5	0.10	0.50	Document Storage of Student Section
6	White Board	2	0.05	0.10	Day to day information display / reminder
Total				5.41	

d) Maintenance Fund :

Sr. No	Details of repairs/material & supply / maintenance, AMC, lab consumables, spares.	Quantity	Rate	Estim. Amt (in lacs)	Justification
1	Xerox Papers	A-4, 150 rim	170	0.255	Day to day consumables
2	Xerox Papers	A- 3, 15 rim		0.05	
3	Tonner(Refill+ New)	5 New, 15 refill		0.21	Day to day consumables
4	Pen Drive 32 GB	6	0.01	0.06	Office work
5	Calculator	5	0.002	0.01	Office tool
6	Other consumable stationary items Including Pen, Pencil, Stepler, Pins, Files, Ink Pad, Envelope, Rubber, marker, CD-DVD, Less file, etc.	LS		1.00	Exam. Work and Day to day consumables
7	Wall Clock	2	0.01	0.02	For Office and Dean Cabin
8	UPS Maintenance	LS		0.10	AMC
9	Curtains	4		0.10	For Office use - day to day activities
10	Dustbin	6	0.002	0.012	
11	Tea Cups+Tray	1 Dz	0	0.005	
12	Cool Water Jar	6		0.050	
13	Paper weight	12		0.012	
14	Mouse	6		0.02	
15	Filming to Cabin glass	LS		0.50	For Cabin in Academic Section
16	Table glass	4		0.075	
17	Door Closer	6		0.05	
18	Wireless Bell	3	0.004	0.012	For Cabins
19	Door Mat (Big)	2		0.02	For Office entrance
	Total			2.56	

Details of reforms for the year 2019-20

(Please include expenses on meeting, hospitality and other reforms)

Sr. no.	Proposed Item	Details	Cost	Estim. Amt (in lacs)	Justification
1	Graduation Ceremony Expences	1		2.000	-----
2	Expenditure for conduct of APEC Meetings	6	800	0.048	-----
3	Expenditure for Dean office meeting and hospitality			0.050	-----
	Total			2.10	

F4 - Maintenance Fund

Outsource services

Sr.no	Type of Services	Exp.	No. of months	Estim. Amt (in lacs)
1	MIS	-----	12	10.00
	1) Annual Technical Support Services	-----	-----	
	2) Hosting charges	-----	-----	
	3) DSS services facility	-----	-----	
2	Teaching Provision for General Proficiency (For weaker students)	-----	-----	10.00
	Total			20.00

GRAND TOTAL

32.09