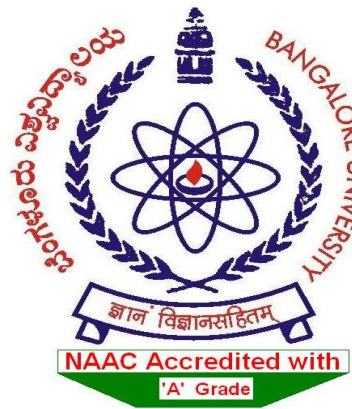


University Visvesvaraya College of Engineering Bangalore University Bangalore



TEQIP – II

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1. TEQIP at UVCE

TEQIP-I Phase (2004 – 2009)

- Total Amount spent during TEQIP-I : Rs. 13.5002 Crores
- Grade Obtained in TEQIP-I Phase : 7.4/10

TEQIP-II Phase (2010 – 2015)

- TEQIP-II Sub Component 1.2 :Scaling-up Post Graduate Education and Demand Driven Research & Development and Innovation
- Total Sanctioned Amount : Rs. 12.5 Crores
- Amount Released on 24.09.2012 : Rs. 2.0 Crores

2. Board of Governors for TEQIP-II

(Constituted on 14.03.2013)

SI No		
1	The Vice-Chancellor, Bangalore University, Bangalore	Chairman
2	Dr. N R Shetty, Former Vice-Chancellor, Bangalore University	Member
3	Dr. Chidananda Gowda, Former Vice-Chancellor, Kuvempu University, Shimogga	Member
4	The President, FKCCI, Bangalore	Member
5	Dr. B K Muralidhara, Professor, Department of Mechanical Engineering, UVCE	Member
6	Dr. H N Ramesh, Professor, Department of Civil Engineering, UVCE	Member
7	One UGC Nominee	Member
8	The Director, Directorate of Technical Education, Government of Karnataka, B'lore	Member
9	The Principal, University Visvesvaraya College of Engineering, Bangalore	Member- Convenor

Special Invitee - The Principal Secretary, Department of Higher Education, Government of Karnataka, Bangalore

3. Institutional TEQIP-II Unit

Sl. No.	Unit	Project Nodal Officers	Member
1	Head of Institution	Dr. Venugopal K.R	
2	TEQIP Coordinator	Dr. B M Rajaprakash	(1) Dr. Manjunath Y R (2) Kiran K
3	Academic Activities	Dr. P Deepa Shenoy	(1)Smt. B C Sujatha (2) Dr. H K Shivanand (3) Sri. Muddaraju H C
4	Civil Works including Environment Mgmt.	Dr. G R Harish	(1) Dr. Usha N Murthy (2) Prof. S V Ravindra (3) Prof. M Nagendra
5	Procurement	Dr. Thriveni J	(1) Dr. S H Manjula (2) Dr. Govindaraju L (3) Mr. D Venkatesha
6	Financial Aspects	Dr. K B Raja	(1) Dr. C K Umesh (2) Smt. Arunalatha J S (3). Kiran T
7	Equity Assurance Plan Implementation	Dr. Y R Manjunatha	(1) Dharamendra Chouhan (2) Dr. G Harish (3) Dr. H N Vidyasagar
8	Industry Institute Interaction	Dr. C K Umesh	(1) Dr. B S Nagendra Prakash (2) Sri. H R Ramesh (3) Sri. A Sreenivasa Murthy
9	Research and Consultancy	Dr. M L Sudheer	(1) Dr. Shivarudraiah (2) Dr. Amarnath M S (3) Ms. M N Suneetha
10	Quality Assurance and Implementation	Dr. S M Dilip Kumar	(1)Dr. K Suresh Babu (2)Dr. B P Harish (3)Sri. H G Hanumantharaju
11	Monitoring and Evaluation	Dr. E. G. Shivakumar	(1) Dr. S Ranganath (2) Smt. H S Veena (3) Dr. Annapurna B P
12	Faculty and Staff Development	Dr. Sharadhabai H	(1) Dr. Sarala Upadhya (2)Dr. T S Prasanna (3) Smt. H N Champa
13	Management Information System	Dr. S M Dilip Kumar	(1) Dr. K Suresh Babu (2) Sri. V Rama Murthy (3) Smt. K P Shobha (4) Smt. Tanuja R (5) Sri. Muddaraju H C (6) Sri. Pavan Kumar

Department Coordinators

Sl. No.	Department	Coordinator
1	Mechanical Engineering	Dr. Shantharaju M
2	Civil Engineering	Dr. B Vishwanath
3	Electrical Engineering	K P Shobha
4	Computer Science and Engineering	Dr. S H Manjula
5	Electronics and Communication Engineering	Dr. K Suresh Babu

4. Approval of BOG Sub Committee to Take Day to Day Decisions to be Placed Before BOG for Final Approval

A Sub Committee of the following Members may be constituted to take decisions and for the final approval of BOG

1. Dr. N R Shetty, Member, BOG
2. Dr. B M Rajaprakash, Project Coordinator
3. Dr. H N Ramesh, Member, BOG
4. Dr. B K Muralidhara, Member, BOG
5. Dr. P Deepa Shenoy, Nodal Officer
6. Dr. Thriveni J, Nodal Officer
7. Dr. Sharada Bai H, Nodal Officer
8. Dr. K B Raja, Nodal Officer
9. Dr. S Paul Vizhian, Nodal Officer
10. The Concerned Chairpersons
11. Principal - Convenor

5. Approval of Purchase Committee

1. Principal
2. Dean, Faculty of Engineering
3. TEQIP Coordinator
4. Nodal Officer – Procurement
5. Nodal Officer – Academic
6. Nodal Officer – Finance
7. Concerned Chairperson
8. Concerned Faculty Member

IDP & PIP

(Approved by NPIU & SPFU)

7. Establishment of Three Centre of Excellence

Five Crores each for three Centre of Excellence

1. “***Centre of Excellence in Disaster Mitigation and Management***”

Participating Departments: Civil Engineering, Mechanical Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering and Computer Science & Engineering

Chief Coordinator: Prof. V Devaraj

2. “***Centre of Excellence in Signal Processing***”

Participating Departments: Electronics & Communication Engineering, Computer Science & Engineering, Mechanical Engineering

Chief Coordinator: Prof. M L Sudheer

3. “***Centre of Excellence in Emerging Materials***”

Participating Departments: Mechanical Engineering, Civil Engineering, Electronics & Communication Engineering, Computer Science and engineering, Electrical & Electronics Engineering

Chief Coordinator – Prof. S Paul Vizhian

8. Indicative Category-wise Funding for Key Activities for Sub Component 1.2

Sl. No.	Activities	Category of Expenditure		Percentage %	Cost (Rs. In Crore)
1	Improvement in Teaching, Training and Learning Facilities	(i) Procurement of Goods:			
		(a) Equipment	30%	40.00	5.000
		(b) Furniture	2%		
		(c) Books & LRs & Software	7%		
		(d) Minor Items	1%		
		(ii) Refurbishment (Minor Civil Works)		3.00	0.375
		(iii) Consultant Services		2.00	0.250
2	Providing Teaching and Research Assistantships to increase enrolment in existing and new PG Programmes in Engineering disciplines	Teaching and Research Assistantships		20.00	2.500
3	Enhancement of R & D and Institutional Consultancy Activities	Research and Development		5.00	0.625
4	Faculty and Staff Development for Improved Competence based on Training Needs Analysis (TNA)	Faculty and Staff Development		10.00	1.250
5	Enhanced Interaction with Industry	Industry Institute Interaction		5.00	0.625
6	Institutional Management Capacity Enhancement	Institutional Management Capacity Enhancement		2.00	0.250
7	Implementation of Institutional Reforms	Institutional Reforms		1.00	0.125
8	Academic Support for Weak Students	Academic Support for Weak Students		2.00	0.250
9	Incremental Operating Cost	Incremental Operating Cost1		10.00	1.250
		Total		100.00	12.500

8.1 Budget Allocation

Sl. No.	Activities	Category of Expenditure	Cost (Rs. In Crore)
1	Improvement in Teaching, Training and Learning Facilities	ICT related software's & hardware, Library, books ,e-books, journals, membership of online journals, e-journals, course specific software's, New laboratory for new and existing PG programs, digitally/virtually accessible courses/subjects, Procurement of Equipments etc. for Institutional TEQIP unit and Civil Work, Refurbishment (Minor Civil Works), Consultant Services	5.620
2	Providing Teaching and Research Assistantships to increase enrolment in existing and new PG Programmes in Engineering disciplines	PG and Ph.D Students enrolled with TEQIP Assistantships	2.500
3	Enhancement of R & D and Institutional Consultancy Activities	Research projects taken by UG /PG students, research publications in engineering in refereed journals, Organizing Conferences for R & D Topics, Patenting of Research Products	0.625
4	Faculty and Staff Development for Improved Competence based on Training Needs Analysis (TNA)	Faculty with B Tech enrolled for M Tech, Faculty with M Tech enrolled for PhD in engineering, faculty members attended training in subject domain, on faculty members attended pedagogical training, organising inhouse subject area training Programs/ Workshops/ seminars / Conferences / continuing education programs, participation by faculty in Seminar/ Conferences/ workshop etc., staff development	1.250
5	Enhanced Interaction with Industry	Academic Programs i.e. M.Tech. / PhD etc. with industry, short term programs with industry, academic networking with other institutions, Campus placements (UG & PG), UG Students attended industrial internship	0.625
6	Institutional Management Capacity Enhancement	Senior Officials & Senior faculty attended management development training,	0.250
7	Implementation of Institutional Reforms	Accreditation fee for NBA , Curricula revision/restructuring,	0.125
8	Academic Support for Weak Students	Students transition from first year to second year of UG Programs (clearing all subjects /courses of 1st year in first attempt)	0.250
9	Incremental Operating Cost		1.250
		Total	12.500

The Chairpersons have submitted the proposal for the purchase of Equipments and it has been approved by SPFU and NPIU

9. Procurement Plan of TEQIP-II

(a) Cental Purchase

Sl. No.	ITEM	Estimated Cost (lakhs)
1	LED projector	9.80
2	Desktop Computers	42.00
3	Laptops	25.00
4	Printers	2.68
5	Air Conditioners	0.46
6	Almirah	2.00
7	Computer chairs and tables	9.00
8	Slotted angle rack	0.75
9	UPS – 5 KVA	3.80
	Total	95.49

(b) Library

Sl. No.	ITEM	Estimated Cost (lakhs)
10	Library books	8.00
11	Journals	3.00
12	e-Journals	9.50
13	Online Books	1.32
	Total	21.82

(c). Department of Civil Engineering

Sl No.	ITEM	Estimated Cost (lakhs)
14	HPLC Sykam Detector	14.00
15	Weighing Balance	2.00
16	Portable Microbiology Lab	2.30
17	Digestion Apparatus	0.98
18	Cannon Manning Viscometer	2.00
19	Brookfield Viscometer	6.00
20	Horizontal shake table with eccentric cam	3.35
21	Vibration Measurement and Analysis System	0.92
22	Vibration Test Rig for Measurement and Analysis	3.37
23	Active Vibration Control System	2.18
24	Automated Consolidation test apparatus	4.00
25	Hydro dynamic sieve test apparatus for Geo textile testing	2.00
26	Cross permeability test apparatus	1.00
27	Universal testing system for geotextiles	3.00
28	Double stage Direct Drive Rotary High Vacuum pump,Oil/water System Split Mould 38*76mm	0.86
29	Flow meter kit with well sounder(Vertical Electrical Sounding system)	3.68
30	Resistivity Meter-CRM-50,ANVIC(INDIA)	4.25
31	Hydraulic Jacks	3.69
32	Prestressed Jacks	6.00
33	Primavera Software	1.00
34	M.S. Project	0.50
35	Furnace(to study the fire resistance of concrete)	5.50
36	Concrete Mixer	1.20
37	Load Cells	2.00
38	Electronic Theodolite	4.75
39	Automatic Weather station Model	3.50
40	Infrared Thermometer Sound Level meter High Density lux Moisture meter	2.00
41	Google Sketchup Pro	0.25
42	ANSYS 12.1 Software	0.40
	Total	87.28

(d) Department of Computer Science and Engineering

Sl. No.	ITEM	Estimated Cost (lakhs)
43	Server with Networking	9.20
44	Work Station	7.20
45	Phantom Desktop Device	6.25
46	GNU Radio(SDR) for WSNs	4.00
47	WSN design Kits	3.00
48	WSN Class room kit	1.34
49	High End Digital Camera	0.55
50	Scanners	0.50
51	LED TV	0.85
52	Voice Recorders	0.26
53	Head Phones	0.17
54	Finger Print Live Scanner	1.25
55	Qualnet 5.0 Network Simulator	5.25
56	SPSS Modeler	6.20
57	Multimedia software	0.86
58	Auto desk software	0.43
59	Maya Software	0.75
60	Discovery Studio	7.25
61	EXATA Network Emulator	5.20
62	Cloud Computing Software	1.00
63	Thin Clients Computer	2.00
	Total	63.51

(e) Department of Electronics Communication and Engineering

Sl. No.	ITEM	Estimated Cost (lakhs)
64	Spectrum Analyzer with tracking generator	8.93
65	Line Impedance Stabilization Network (LISN)	1.75
66	High Voltage Probe	1.24
67	High Voltage Differential Active Voltage Probe	1.52
68	Current probe with amplifier	2.30
69	Demonstration kits for TV/RADIO/DTH with set up box	0.25
70	DSP starter kit(DSK) TMS320C6713 with code composer studio.	1.50
71	Image/video Daughter Card with on board display	0.70
72	4-channel Audio Daughter card	0.30
73	High speed ADC/DAC Daughter card	0.80
74	Fiber Optic Lab	15.30
75	VLSI Design & Verification tool	6.00
76	VIRYEX 2PRO FPGA Development Kit	7.00
	Total	47.59

(f) Department of Electrical & Electronics and Engineering

Sl. No.	ITEM	Estimated Cost (lakhs)
77	DSP based Embedded System Design	3.90
78	FPGA based Embedded System Design	8.60
79	USB based Data Acquisition & Control Platform	10.52
80	Integrated Electronic Circuit Design & Prototyping Platform	19.89
81	VHDL Software	1.10
82	NI Lab VIEW Software	6.00
	Total	50.01

(g) Department of Mechanical Engineering

Sl. No.	ITEM	Estimated Cost (lakhs)
83	Wirecut Electric Discharge Machining System	15.00
84	Electronic balance	1.00
85	Cutting tool Dynamometers	15.00
86	CFD Fluent Software	4.00
87	Machine vision and image processing system	12.0
88	Upgradation of existing Optical Microscope	1.50
89	Instrumented Drop Weight Impact Machine	20.00
90	Residual Stress Measurement using strain guage & drilling equipment	10.00
91	3D – Surface Roughness Measurement Instrument	8.00
92	Electric Discharge Machining System	9.00
93	Upgradation of existing "Polariscope"	0.50
94	Upgradation of existing "FFT Analyzer"	2.00
	Total	98.00

(h) Civil Works

Sl. No.	ITEM	Estimated Cost (lakhs)
95	Refurbishing of existing spaces (Civil Works)	37.50
	Total	501.20

9.2 Purchase of Equipments against Rs. 2 Crore Grant Received

(a) Central Purchases		
Sl. No.	ITEM	Estimated Cost in Lakhs
1	Desktop Computers	42.00
2	Air Conditioners	4.62
3	Computer Tables and Chairs	9.00
4	UPS-5KVA	3.80
5	LED Projector	9.80
	Total	69.22
(b) Department of Mechanical Engineering		
1	Wirecut Electric Discharge Machining System	15.00
2	Machine vision and image processing system	12.00
3	Residual Stress Measurement using strain guage & drilling equipment	10.00
	Total	37.00
(c) Department of Computer Science and Engineering		
1	Server with Networking	9.20
2	Work Station	7.20
3	Phantom desktop device	6.25
	Total	22.65
(d) Department of Electrical Engineering		
	DSP Based Embedded System Design	3.90
	FPGA based Embedded System Design	8.60
	USB based Data Acquisition & Control Platform	10.52
	Total	23.02

(f) Department of Civil Engineering		
Sl. No.	ITEM	Estimated Cost in Lakhs
1	HPLC SYKAM	14.0
2	Detector Weighing Balance	2.00
3	Portable Microbiology Lab	2.30
4	Digestion Apparatus	0.98
5	Cannon Manning Viscometer	2.00
6	Brookfield Viscometer	6.00
7	Horizontal shake table with eccentric cam	3.35
8	Vibration Measurement and Analysis System	0.92
9	Automated Consolidation test apparatus	4.00
	TOTAL	35.55
(g) Department of Electronics and Communication Engineering		
1	Spectrum Analyzer with tracking generator	8.93
2	Line Impedance Stabilization Network (LISN)	1.75
3	High voltage Probe	1.24
4	High voltage Differential Active Voltage Probe	1.52
5	Current probe with Amplifier	2.30
6	DSP starter kit (DSK) TMS320C6713 with code composer studio	1.50
7	Image/video Daughter card with on board display	0.70
8	4 –Channel Audio Daughter card	0.30
9	High speed ADC/DAC Daughter card	0.80
10	VLSI Design and Verification Tool	6.00
	TOTAL	25.05

The List of equipments has been approved by the concerned Faculty of the Department, Department Council, Chairperson, SPFU and NPIU

10. Academic Activities under TEQIP-II

1. Five Post Graduate Courses will be started
2. Number of PG seats of all courses will be increased
3. Enrollment of Ph.D candidates will be increased
4. Non-Gate PG students (50) will be given Rs. 8,000 per month & full time Ph.D students will be given Rs. 18,000 per month as scholarship
5. Faculty members are encouraged to present papers in international conferences
6. Around 100 FDP programs are planned for April 2013 to March 2014
7. Wi-Fi connectivity for K R circle campus, Jnanabharathi campus and hostel

10.1 Assistantships

Total Allocated = 250 Lakhs

I Teaching Assistantship for PG Students

- | | | |
|----------------------------------------------------------------|---|---------------|
| 1. 2012-13 batch (50students) for 1 year @ Rs. 8,000 per month | : | Rs. 48 Lakhs. |
| 2. 2013-14 batch(50students) 2 years | : | Rs. 96 Lakhs |

II Research Assistantship for Phd students

- | | | |
|-------------------------------------------------|---|--------------|
| • 7 students @ Rs. 18,000 per month for 2 years | : | Rs. 64 Lakhs |
|-------------------------------------------------|---|--------------|

III Awards for Papers Published in National / Foreign refereed journals

- | | | |
|----------------------------------|---|-----------|
| – Impact Factor below 0.5 | : | Rs. 5000 |
| – Impact Factor between 0.5 to 1 | : | Rs. 10000 |
| – Impact Factor above 1 | : | Rs. 15000 |

Miscellaneous	:	Rs. 42Lakhs
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Total	:	Rs. 250 Lakhs
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11. Proposed Expenditure for Enhancement of R&D

Sl. No.		Estimated Cost (lakhs)
1	Expenditure to be Incurred on R&D projects	16.0
2	Expenditure for securing sponsored projects/R&D projects and consultancy assignments	5.0
3	Expenditure for research projects taken up by UG/PG/Doctoral students	5.0
4	Expenditure on research publication in refereed journals	8.0
5	Expenditure on organizing conferences for R&D topics	10.0
6	Travel Cost/honorarium paid to consultants for participation in R&D and for Delivering expert lectures	6.0
7	Expenditure for patenting of research products	6.5
8	Others (miscellaneous)	6.0
	Total	62.50

12. Faculty Development Programme

Sl. No.	Item	Number	Amount per Item in Rs.	Total Estimated Cost in Rs
1	Conduction of International Conferences	05	3 Lakhs	15 Lakhs
2	Conduction of Workshops and Seminars	78 (250 Days)	40,000 per day	100 Lakhs
3	Undergoing Training and Attending Workshops/Seminars/Conferences (International Conference abroad: One per faculty or International Training abroad: One per faculty)			135 Lakhs
Total				250 Lakhs

12.1 Approval of Five New PG Courses

Sl. No.	Course	Department	Intake
1	Data Mining and Data Warehousing	Computer Science & Engineering	18
2	Space Technology	Inter Disciplinary Mechanical, EC and CSE	18
3	Nano Technology		18
4	Digital Electronics*	Electronics & Communication Engineering	18
5	VLSI & Embedded System*	Electronics & Communication Engineering	18

*Approved by the Academic Council and Syndicate

12.2 Approval of Teaching and Non-Teaching Posts

- (a) Sanctioned Posts for Existing UG/PG Courses
- (b) Sanction of Posts for the PG Courses under TEQIP-I
- (c) Sanction of Posts for the Proposed PG Courses under TEQIP-II
- (d) Sanction of posts for the following existing PG Courses in UVCE
- (e) Sanction of Non-Teaching Posts - TEQIP-II

12.2 (a) Sanction of Posts for Existing UG/PG Courses

Dept.	Course	Sanctioned Strength			Working Strength			Vacant Posts		
		Prof	Asso Prof	Asst Prof	Prof	Asso Prof	Asst Prof	Prof	Asso Prof	Asst Prof
Civil Engg.	B.E Civil Engg., M.E Construction Technology, M.E Geo Technical Engg., M.E Structural Engg., Structural Engg., M.E Highway Engg., M.E Pre-Stressed Concrete, M.E Water Resource, Engg., M.E Environmental Engg.	9	18	29	-	8	23	9	10	5
Mech. Engg.	B.E Mechanical Engg., M.E Machine Design, M.E Manufacturing Science Engg.	4	8	22	-	7	16	4	1	6
Electr. Engg.	B. E Electrical Engg., M.E Power & Energy Systems, M.E Power Electronics	5	7	16	-	4	15	5	2	2
Elec. & Comm. Engg	B.E in Electronics & Communication Engg., M.E in Electronics & Communication Engg.	2	15	6	-	2	6	2	3	10
Comp. Sci. & Engg.	B.E Computer Science & Engg., B.E Information Science & Engg., M.E Computer Science & Engg., M.E Information Technology, M.E Computer Networking, M.E Web Technology, M.E Software Engg., M.E Bioinformatics	5	5	11	1	5	9	4	1	2
Arch.	Bachelor of Architecture	1	4	8	-	3	4	1	1	4
Total		26	47	102	1	29	73	25	18	29
		175			103			72		

12.2 (b) Sanction of Posts for the PG Courses under TEQIP-I

Course	Department	Prof.	Asso. Prof.	Asst. Prof.
1. M.E in Earthquake Engineering	Civil Engineering	1	1	2
2. M.E in Advanced Material Technology	Mechanical Engineering	1	1	2
3. M.E in Computer Networking	Computer Science and Engineering	1	1	2
4. M.E in Web Technologies		1	1	2
5. M.E in Software Engineering		1	1	2
6. M.E in Bioinformatics		1	1	2
7. M.E in Control & Instrumentation	Electrical Engineering	1	1	2
8. M.E in Digital Electronics	Electronics & Comm. Engg.	1	1	2
9. M.E in VLSI & Embedded System		1	1	2
Total		9	9	18

12.2 (c) Sanction of Posts for the Proposed PG Courses under TEQIP-II

Course	Department	Prof.	Asso. Prof.	Asst. Prof.
1. Data Mining and Data Warehousing	Computer Science and Engg.	1	1	2
2. Nano Technology	Mechanical Engg. Electronics & Comm. Engg. and Computer Science and Engg	1	1	2
3. Space Technology		1	1	2
4. Digital Electronics	Electronics & Communication Engineering	Posts are already Approved by the Academic Council and Syndicate Please refer page 14		
5. VLSI & Embedded System				
Total		3	3	6

12.2 (d) Sanction of Posts for the following Existing PG Courses in UVCE

Course	Department	Prof.	Asso. Prof.	Asst. Prof.
1. Thermal Science Engineering	Mechanical Engg	1	1	2
2. Construction & Project Management	Architecture	1	1	2
3. Landscape Architecture	Architecture	1	1	2
Total		3	3	6

Total Number of Posts to be Sanctioned 3(b) + 3(c) + 3(d)	
Post	Number
Professors	15
Associate Professors	15
Assistant Professors	30
Total	60

12.2 (e) Sanction of Non-Teaching Posts – TEQIP-II

Sl. No.	Department	Sys. Analyst. & Sys. Prog.	Tech.	Group D
1	Mechanical Engineering	-	12	02
2	Civil Engineering	-	10	02
3	Computer Science and Engineering	02 + 01	14	02
4	Electronics and Communication Engineering	-	05	02
5	Electrical Engineering	-	05	02
Total		03	46	10

13. Approval of Proposals for Seminars, Workshops, Conferences and Symposium

Sl. No	Title of the Training Programme	Department(s) Involved	Training Type	Number of Days
1	Advances in Data Mining	CSE	Workshop	02
2	Recent Advances in Wireless Communication	CSE	Workshop	03
3	Software Defined Networks	CSE	Seminar	01
4	Research Issues & Related Challenges	CSE	Seminar	01
5	Next Generation Networks	CSE	Seminar	01
6	New Protocol Implementation in NS2	CSE	Workshop	02
7	Secure Routing in Wireless Networks	CSE	Seminar	01
8	Simulation of Wireless Networks using Matlab	CSE	Workshop	02
9	Data Security & Privacy in WSN	CSE	Seminar	01
10	Embedded Linux	CSE	Workshop	03
11	Begle Board and Embedded Android	CSE	Workshop	05
12	Advances in Haptics	CSE	Seminar	01
13	Cognitive Networks	CSE	Seminar	01
14	Image Processing using Matlab	CSE	Workshop	02
15	Ubiquitous Computing	CSE	Workshop	03
16	Digital Entertainment Creation	CSE	Workshop	07
17	Issues in Grid and Cloud Computing	CSE	Workshop	05
18	Performance Modeling in Computing & Networking Domain	CSE	Workshop	03

Sl. No	Title of the Training Programme	Department(s) Involved	Training Type	Number of Days
19	Game Theory Approaches in Computing	CSE	Workshop	03
20	How to Write a Project Proposal	CSE	Seminar	01
21	Semantic Web Technologies	CSE	Workshop	02
22	Web Mining Tools	CSE	Workshop	02
23	System Maintenance and Networking	CSE	Workshop	02
24	Research Methodology and Paper Writing	CSE	Seminar	01
25	Cloud Computing and its Applications	CSE	Workshop	02
26	Autodesk 1	CSE	Workshop	15
27	Autodesk 2	CSE	Workshop	15
28	VLSI Signal Processing	ECE	Workshop	02
29	Labview Simulation for various Applications	ECE	Workshop	02
30	DSP using Processors	ECE	Workshop	02
31	Design of Mixed Mode VLSI Circuits	ECE	Workshop	02
32	Embedded Systems and Robotics	ECE	Workshop	02
33	EMI and EMC	ECE	Workshop	02
34	Optical Communication and Networks	ECE	Workshop	02
35	Multimedia Signal Processing	ECE	Workshop	02
36	Adhoc Networks and Wireless Sensor Networks	ECE	Workshop	02
37	Image Processing Techniques	ECE	Workshop	01
38	Advances in Biometrics	ECE	Workshop	01
39	Microwave and Satellite Communications	ECE	Workshop	01

Sl. No	Title of the Training Programme	Department(s) Involved	Training Type	Number of Days
40	Space Technology	ECE	Workshop	01
41	Recent Trends in Advanced Electronics	ECE	Workshop	01
42	Engineering Design	Mechanical	Workshop	12
43	Advanced Finite Element Analysis using Hyper Works (Hyper mesh + RADIOSS)	Mechanical	Workshop	06
44	FEA Modelling for various Applications	Mechanical	Workshop	06
45	Computational Fluid Dynamics and Ansys FLUENT	Mechanical	Workshop	06
46	Virtual CNC Training	Mechanical	Workshop	02
47	Refresher course on Hydraulics & Pneumatics	Mechanical	Workshop	06
48	Advanced Composite Materials	Mechanical	Workshop	02
49	High strain rate deformation of materials	Mechanical	Workshop	02
50	Sir. M.V. Memorial Technical workshop	Mechanical	Workshop	01
51	Gas Turbine Technology	Mechanical	Seminar	01
52	National conference on Heat Exchangers	Mechanical	Conference	02
53	National conference on Recent Advances in Manufacturing Processes	Mechanical	Conference	02
54	Micro-machining	Mechanical	Workshop	01
55	FDP on cutting tool technology	Mechanical	Workshop	05
56	FDP on Robotics	Mechanical	Workshop	05
57	FDP on Aerospace Technology	Mechanical	Workshop	05
58	FDP on NDT	Mechanical	Workshop	05
58	FDP on NTM	Mechanical	Workshop	05

Sl. No	Title of the Training Programme	Department(s) Involved	Training Type	Number of Days
59	Training Programme on L S -Dyna	Mechanical	Workshop	05
60	Advanced modeling and simulation	Mechanical	Workshop	02
61	Natural fibre composites and Nano composites	Mechanical	Seminar	01
62	Recent Trends in Power Electronics	Electrical	Workshop	03
63	Automation using PLC System for Industrial Training	Electrical	Workshop	03
64	Utilization of Solar Energy in Effective Methods	Electrical	Seminar	01
65	Exposure to Real Time Simulation for Power Electronics Drives and Control	Electrical	Workshop	05
66	Design of Earthquake Resistant Structure	Civil	Workshop	02
67	Earthquake Resistant Design of Foundations	Civil	Workshop	02
68	Advances in Structural Engineering	Civil	Workshop	02
69	Advances of Geo Technical Engineering	Civil	Workshop	02
70	Case Histories and Research Avenues in Geo Technical Engineering	Civil	Workshop	02
71	Solid waste Management in Urban Centers	Civil	Workshop	02
72	Air Pollution Monitoring and Control Measures	Civil	Workshop	02
73	Recent Advances in Pavement Materials	Civil	Workshop	02
74	GIS for Disaster and Hazard Management	Civil	Workshop	02
75	Advances in Plumbing Systems	Civil	Workshop	02
76	Soft Computing Techniques in Power Systems	Electrical	Workshop	03
77	Design of Electrical Machine using Autodesk	Electrical	Workshop	03
78	International Conference on Wireless and Ad hoc Networks	CSE/EC	Conference	02

- The Conferences/Seminars/Symposium/Workshop listed here are approved by the Chairpersons of the respective Departments .
- The approximate cost incurred per day for conducting these events is Estimated to be Rs. 40,000 for about 50 – 100 including TA/DA for Experts, Honorarium, Refreshments, Course Materials and Publishing Materials

14. Approval of Expenditures

14.1 Approval of Salary for TEQIP Staff, TA/DA, to Mentor & Industry Personnel

Programme	Amount in Rs.
1. TA and DA for three faculty members who attended the NPIU , Noida, New Delhi on 09.01.2013 to make a presentation of 3 proposals pertaining to establishment of Centre of Excellence proposals at UVCE.	77,720/-
2. Honorarium paid to mentor and Industry resource personal in connection with mentor meeting held on 30 th and 31st October 2012.	24,000/-
3. Payment of salary to two project assistants appointed for TEQIP II 1 a) Project Assistant appointed from 1-4-2011 to 31-03-2013(24 months) at Rs. 10,000/- pm b) Second project assistant from 1-06-2012 to 31-03-2013 at Rs. 10,000/- per month for 10 months.	2,40,000/- 1,00,000/-
Total	4,41,720

14.2 Approval of Appointment of Project Assistants for TEQIP-II

Post	Salary
1. MIS and PMSS Incharge - MBA Graduate with Computer Knowledge	Rs. 15,000
2. Project Assistant (Office) – (S Govindappa – Re-employed, Former Employee of Bangalore University) Approval from 01.04.2011	Rs. 10,000
3. Project Assistant (Finance) – (G R Nagaraj – Re-employed, Former Employee of Bangalore University) Approval from 01.06.2012	Rs. 10,000
4. Typist / Data Entry Operator – BSc or BCA Graduate	Rs. 8,000
5. Group D - VIII Std.	Rs. 6,000

14.3 Approval of Expenditure incurred for Training Programmes and Workshops

Programme	Amount in Rs.
1. Two day training for TEQIP institutions on <i>procurement and PMSS</i> held at UVCE on 3 rd nd 4 TH OF August 2011 conducted by NPIU.	64,480/-
2. Training program on <i>Web-Based Management Information System (MIS)</i> at SJCE college Mysore from 11 th to 13 th April 2012 sponsored by NPIU. TA and DA to two faculty members who attended the training program. Rs. 3350+5120/-	8,470/-
3. Two day workshop on <i>Review of progress and accelerating implementation of TEQIP</i> at Dr. AIT, Bangalore. On 8 th and 9 th November 2012 – Conveyance allowance for four faculty members.	3800/-
4. Two day workshop on <i>Training on Rapid Simulation and Performance Evaluation of Current and Future Network Constructs</i> at Hotel, Atria, Bangalore, on 12 th and 13 th February 2013. Registration Fee and TA	Rs. 13,500
Total	90,250

14.4 Approval of Expenditure Incurred by Faculty for Attending Conferences

Sl. No	Conference	Amount in Rs.
1.	Dr. H N Ramesh Professor, Department of Civil Engineering, UVCE, Presented a Paper at the Indian Geotechnical Conference 2012 held from 13 th to 15 th December 2012 at Indian Institute of Technology, Delhi, New Delhi, India.	19,830
2.	Kiran K Asst. Prof. Department of Computer Science and Engineering, UVCE, Presented a Paper at the 2 nd IEEE International Conference on Information Processing 2012 held from 5 th to 7 th December 2012 at Jaypee Univeristy of Information Technology, Wagnaghat, Solan, Himachal Pradesh, India.	18,000
3.	Pushpa C N Asst. Prof. Department of Computer Science and Engineering, UVCE, Presented a Paper at the International Conference on Information Technology and Convergence Services 2013 held from 18 th February to 20 th February 2013 at Royal Orchid Central Hotel, Bangalore.	5000.00
4.	Pushpa C N Asst. Prof. Department of Computer Science and Engineering, UVCE, International Conference on Signal Processing and Pattern Recognition 2013 Springer from 24 th May to 26 th May 2013 at Delhi, India.	40000
5.	Tanuja R Asst. Prof. Department of Computer Science and Engineering, UVCE, Sixth international conference on Information Processing ICIP-2012 held on 10 th to 12 th Aug 2012, Bangalore	11000.00

Sl. No	Conference	Amount in Rs.
6.	Tanuja R Asst. Prof. Department of Computer Science and Engineering, UVCE, Third International Conference on Recent Trends in information Telecommunication and Computing ITC 2012 held from Aug 03-04, 2012 at Bangalore	22000
7.	Sharadha Bai H Professor, Department of Civil Engineering, UVCE, International Seminar on Forensic Geotechnical Engineering held from 10 to 12 January 2013 at Bangalore	8100
8 .	Sharadha Bai H Professor, Department of Civil Engineering, UVCE, International Twin Conference on Rehabilitation and Restoration of Structures and Advances in building sciences held from 12th -16th February 2013 at IIT Madras, Chennai	19840
9.	Sharadha Bai H Professor, Department of Civil Engineering, UVCE, International Conference on Innovations in Concrete Construction held from 5th -8th March 2013 at Jalandhar, Punjab, India	38500
Total		182270

14.6 Proposals for Attending International Conferences / Paper Presentation

Sl. No	Conference	Amount in Rs.
1	H Sharada Bai Prof. Department of Civil Engineering. Fifth international conference on structural engineering mechanics and computation to be held on 2 nd to 4 th September 2013at Capetown, South Africa.	1,96,580
2	Dr. P S Nagaraju- Associate professor Department of CivilEngineering. Fifth international conference on Structural Engineering mechanics and computation to be held on 2 nd to 4 th September 2013at Capetown, South Africa.	1,96,580
3	N Jayaramappa Research Scholar Faculty Civil Engineering. Financial Assistance to Phd Research Work proposal. "Behaviour of infilted Frame Subjected to Earthquake load."	2,55,000
4	Kiran K Asst. Prof. Department of Computer Science and Engineering. Presenting a Paper at the IEEE 2013 Tencon – Spring, to be held from 17th to 19th April 2013 at Sydney, Australia.	1,52,000
5	Dr. H.K. Shivannand Associate Professor, Department of Mechanical Engineering. Presenting a paper at an International Conference (ISBT-2013) held from 8 th to 10 th July 2013 at Antwerp, Belgium.	2,01,800
Total		9,88,120

14.7 Approval of Proposals for Conducting Conferences

Sl. No	Title of the Training Programme	Department(s) Involved	Number of Days	Amount in Rs.
1	7 th International Conference on Communication Networks (ICCN – 2013), August 9-11, 2013	CSE	03	1,50,000
2	7 th International Conference on Data Mining and Warehousing (ICDMW – 2013), August 9-11, 2013	CSE	03	1,50,000
3	7 th International Conference on Image Processing and Signal Processing (ICISP – 2013), August 9-11, 2013	CSE	03	1,50,000
4	International Conference on Water , Waste water and Isotope Hydrology, June 23-25, 2013	Civil	03	5,00,000
Total				9,50,000

15 Industry-Institution Interaction Cell

- Industrial expert lectures by eminent personalities from industries in the area of state-of-the-art technology
- Guidance to the students' projects both UG and PG students pertaining to industrial problems
- Industrial expert knowledge will be used in the curriculum development and laboratory development keeping in view, the changing industrial needs
- To develop co-operative PG programmes and UG Programmes with industry having potential benefit to faculty, students & industry
- Sending the faculty members to industry for a short training programme to enhance the knowledge of faculty members to the state-of-the-art technology
- Taking the students for visit to industries & arranging video shows to students in the different fields
- Tutoring the students from industrial expert for employability
- To Start a Entrepreneur cell along with National Entrepreneurship Network

15.1 Approval of Industry Institute Interaction Programme

- A National-Level Student Symposium “*Impetus*” conducted by the Departments of Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering for two days - **Rs. 2 Lakhs**
- A one day National-Level Technical Paper Presentation “*Kagada*” for UG and PG Students of all branches to encourage Research temper amongst the students – **Rs. 1 Lakh**
- A two day Techno Management event “*Inspiron*” to prepare the students for placements – **Rs. 2 Lakhs**
- Industrial Visits – **Rs. 2 Lakhs**
- Training Programmes – **Rs. 10 Lakhs**
- To Start and Maintain Entrepreneurship Cell – **Rs. 5 Lakhs**
- **Total – 22 Lakhs**

15.2 Activities during 2012 - 13

- The 120 students of Mechanical Engineering are taken for industrial tour to Sea-Bird, Karwar & Hampi for 7 days
- The 90 students of Electrical Engineering are taken to Varahi underground Hydro Power, Sharavathi Hydro Power & Kaiga – Nuclear Power Station for 7 days
- The 120 students of Civil Engineering are taken to survey camp to Ghati Subramanya, Doddaballapura for 15 days
- The 60 students of Computer Science & Information Science are taken to industrial visit to TITAN Industries Pvt. Ltd., Hosur for one day (through IEEE Student Chapter)
- An expert Dr. Rama Kumar, Group leader, from Honeywell, Bangalore has initiated a experimental project with Thermal Science student on “Imperiment of Jet-flow on flat & curved plates”, in collaboration with Dr. C K Umesh, Associate Professor, Department of Mechanical Engineering, UVCE, Bangalore

16. Equity Action Plan

Objective: To ensure that all students and faculty in the project institutions have equal opportunity to avail benefits of the project with substantial improvement in performance of weak students

1. **Weak Students:** Those who have failed or scored less than 50% in their subjects in a given year/semester and/or lost a year or more (If number of students scored less than 50% are very less then 65 % will be taken as minimum percentage)

All the department of UVCE are in the process of identifying weak students and planning to conduct remedial teaching through academic sessions for improving transition rate and pass rate of students

2. **Finishing School:** A committee is constituted for establishing finishing school. The members are: Chairperson + One concerned faculty member of activity, Nodal officer (Equity action plan – Convenor), Hostel Wardens (Both Boys and Girls Hostels), Placement Officer, Nodal Officer (Academic), Programme Coordinator, Principal
3. **Placement Training** in specialized soft skills and professional skills are being conducted during vacations for increasing employability
4. **Personality Development** training for 4th, 5th and 6th semester students will be conducted during vacation
5. **Scholarships for PG and Ph.D Students:** As per AICTE/TEQIP/State Govt. Norms

Emphasis is given in all the above areas for Socially disadvantaged students as per TEQIP norms

16.1 Approval for Training Unplaced Students

- Training for 200 students at a cost of Rs. 1,000 per Student – Rs. 2 Lakhs
- Training students of 6th semester of all branches to prepare for placements – Rs. 1 Lakhs

16.2 Approval for Training Weak Students

- Tutorials for weak students of first year to improve pass percentage – Rs. 500 per hour

17. Approval for Best Practices

1. Approval of financial incentive for getting sponsored industrial R & D project - 3% of total sanctioned amount may be sanctioned as incentive using IRG of the Institute

18. Signature of Board of Governors

Sl No		Signature
1	The Vice-Chancellor, Bangalore University, Bangalore	
2	Dr. N R Shetty, Former Vice-Chancellor, Bangalore University	
3	Dr. Chidananda Gowda, Former Vice-Chancellor, Kuvempu University, Shimogga	
4	The President, FKCCI, Bangalore	
5	Dr. B K Muralidhara, Professor, Department of Mechanical Engineering, UVCE	
6	Dr. H N Ramesh, Professor, Department of Civil Engineering, UVCE	
7	One UGC Nominee	
8	The Director, Directorate of Technical Education, Government of Karnataka, B'lore	
9	The Principal, University Visvesvaraya College of Engineering, Bangalore	