

R.V. COLLEGE OF ENGINEERING
Bengaluru – 560059.

Proceedings of 21th Governing Body Meeting held on 18.1.2017

Members Present:

- 1) Dr. M.K. Panduranga Setty – Chairman
- 2) Sri. N.R. Panditharadhya
- 3) Sri. K.G. Subbarama Setty
- 4) Sri. A.V.S. Murthy
- 5) Prof. K.N. Raja Rao
- 6) Prof. B.L. Shivakumar
- 7) Smt. Mamtarani Agarwal – UGC Nominee
- 8) Dr. Pundarika G. Naik – State Govt. Nominee
- 9) Prof. K.N. Subramanya – Member Secretary

Special Invitee:

- 1) Sri. A.R. Krishna Reddy

Leave of Absence:

- 1) Dr. D.H. Rao – VTU Nominee
- 2) Sri. M.P. Vikram – Industrialist
- 3) Sri. D.P. Nagaraj
- 4) AICTE Nominee

Proceedings:

At the outset, the Chairman extended a cordial welcome to all the members. He briefed about the Trust and RVCE to the UGC nominee.

The Member Secretary introduced Prof. B.L. Shivakumar, Professor, Civil Engineering Dept. as new member of the Governing Body in place of Prof. S. Jagannathan, who superannuated during Sept. 2016.

Sub. No. 156: To Read and record the minutes of 19th GB meeting held on 27.6.16 and inform about the action taken.

The Member Secretary briefed about the proceedings of 19th Governing Body meeting and action taken.

Decision: The minutes of 19th Governing Body Meeting and Action taken were read and recorded. **(Annex. 1)**

Sub. No. 157: Ratification of the Proceedings of the 20th GB meeting dt. 21.10.16 (by Circulation)

The Member Secretary informed the Governing Body that on account of urgent needs for TEQIP approvals, the agenda details were sent to the members by circulation and sought ratification from the members.

Decision: The Governing Body ratified the proceedings of the 20th Governing Body meeting dt. 21.10.16. **(Annex. 2)**

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Sub. No. 158: a) Activities of RVCE during Sep. 16 to Dec. 16. - Achievements of faculty & students, Appointment of Faculty and Support Staff, Result Analysis, Placement Statistics, NBA approvals, Funded Project grants & consultancy - applied /received, Patents Applied.

The Member Secretary highlighted about various activities of RVCE during Sep. – Dec. 2016. **(Annex. 3).**

Mrs. Mamatarani Agarwal suggested that the institution could focus more on research activities and research oriented projects could be enhanced. She also suggested that language labs. could be used for multilingual function. She also enquired about faculty attrition rate. The Member Secretary informed that faculty attrition rate is less than 2% in the institute.

The UGC nominee congratulated the Management for its magnanimous support to the institution and she appraised the faculty and staff members for achieving excellence in providing quality technical education.

b) TEQIP activities during Sep. 16 to Dec. 16.

Prof. K.N. Raja Rao presented the members about various TEQIP activities held during Sept. – Dec. 2016. **(Annex. 4)**

c) PG Autonomy

The Member Secretary informed the members that, though the UGC had granted autonomy to the institution, the University had earlier accorded autonomy for UG programs only. The University vide Notification No. VTU/Aca/2016-17/A-11/3202 dt. 22.8.16, accorded its approval of Autonomous Status as well for PG programs - M.Tech and MCA from the academic year 2016-17.

Sub. No. 159: Approval for filing ISO 9001:2015 Certification.

The Member Secretary informed the members that the institution is in the process of filing ISO 9001:2015 Certification. He further briefed that, workshops have been organized for HODs, faculty co-ordinators and core-team members. **(Annex. 5)**

Decision: The Governing Body approved the proposal of filing ISO 9001:2015 Certification.

Sub. No. 160: Approvals under TEQIP-II Subcomponent 1.2

Prof. K.N. Raja Rao, TEQIP Co-Ordinator informed the members regarding various approvals sought under TEQIP Sub Component 1.2.

Decision:

160 (A) Procurement:

- (i) The Governing Body approved the proposal for procurement of Advanced Reference Books to the tune of Rs. 10.0 lakhs.
- (ii) The Governing Body approved the proposal to procure PSIM and add on Modules proposed by Department of EEE to the tune of Rs. 17.34 lakhs.
- (iii) The Governing Body approved the proposal to procure CDAC – Cyber Forensic Software Tools proposed by Department of ISE to the tune of Rs. 14.18 lakhs.

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- (iv) The Governing Body approved the proposal to procure Keysight Software (ADS, System Vue, EMPro) proposed by Department of TCE to the tune of Rs. 24.0 lakhs.
- (v) The Governing Body approved the proposal to procure HDM-4 Software proposed by Department of CE to the tune of Rs. 2.50 lakhs.
- (vi) The Governing Body approved the proposal to procure PTV Vsim proposed by Department of CE to the tune of Rs. 4.75 lakhs.

160 (B) Teaching Assistantship and Research Assistant ship

- (i) The Governing Body approved proposal for release of Teaching Assistantship to 19 students of 2015-16 Batch @ Rs.8,000/- per month per head for a period of 18 months (10 months in the First year & 8 months in the second year) to the tune of Rs. 27.36 lakhs.
- (ii) The Governing Body approved the proposal for release of Teaching Assistantship to 07 students of 2016-17 Batch @ Rs.8,000/- per month per head for a period of 7 months (w.e.f. 1.9.2016 till 31.3.17), to the tune of Rs. 3.92 lakhs, subject to availability of funds as the project is ending on 31.3.2017.

160 (C) Enhancing Research and Development through training, W/S and Conferences

- (i) The Governing Body approved the proposal of conducting R&D workshop on Student Thesis Projects during 10th – 12th March-2017 at RVCE in association IIT Mumbai, to the tune of Rs. 5.50 lakhs.
- (ii) The Governing Body approved the proposal for Deputation of Faculty for TEQIP sponsored training program on “Advances in Engineering Optimization through Intelligent techniques”, to the tune of Rs. 0.36 lakhs.
- (iii) The Governing Body approved the proposal for Patenting of research Projects & Commercialization, to the tune of Rs. 1.00 lakhs.
- (iv) The Governing Body approved the proposal for reimbursement to UG students for consumables for 25 projects leading to developing interest in R&D, to the tune of Rs. 5.0 lakhs.

160 (D) Faculty Development for improved Competency

- (i) The Governing Body approved the proposal for Reimbursement of Ph.D Course Fees and other consumables to faculty of RVCE, to the tune of Rs. 5.0 lakhs.
- (ii) The Governing Body approved the proposal for conducting CEP on Biology for Engineering during 6th – 8th Feb.2017 at RVCE In association IIT Mumbai, to the tune of Rs. 5.50 lakhs.
- (iii) The Governing Body approved the proposal for conducting CEP on Digital Signal Processing during 9th – 11th March 2017 at RVCE In association IIT Mumbai, to the tune of Rs. 5.50 lakhs.
- (iv) The Governing Body approved the proposal for conducting CEP on Optimization in Design & Engineering during 9th – 11th March-2017 at RVCE In association IIT Mumbai, to the tune of Rs. 5.50 lakhs.
- (v) The Governing Body approved the proposal for deputation of Prof. Ashwani Sharma, Assistant Professor, Dept., of BT to attend an International Conference on "Development and advancement in conservation propagation and sustainable utilization of medicinal plants-DSUMP-2017" at Gautham Buddha University, Gr. Noida from 19th to 22nd January 2017, to the tune of Rs. 0.13 lakhs.
- (vi) The Governing Body approved the proposal for deputation of Dr. Vinay Hegde, Associate professor, Dept., of CS to attend a workshop on Skill Upgradation training program on

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- Computational Intelligence for Knowledge Extraction at NITTR, Kolkata from 16th to 27th January 2017, to the tune of Rs. 0.34 lakhs.
- (vii) The Governing Body approved the proposal for Deputation of Dr. Anala. M R, Associate Professor and Prof. Hemavathy. R, Assistant Professor, Dept., of CS to attend a 3 days training program on Big Data Science using R and Hadoop at C-DAC, Bengaluru from 8-10th Feb 2017, to the tune of Rs. 0.12 lakhs.

160 (E) Industry-Institute-Interaction

- (i) The Governing Body approved the proposal for disbursing Honorarium and conveyance to industry experts who attend BoS meetings, to the tune of Rs. 0.25 lakhs.
- (ii) The Governing Body approved the proposal for conducting E-summit to the tune of Rs.1.40 lakhs.
- (iii) The Governing Body approved the proposal for conducting Employability enhancement training for UG and PG students, to the tune of Rs. 3.0 lakhs.
- (iv) The Governing Body approved the proposal for Conveyance to students for internship leading to industry interaction and R&D, to the tune of Rs. 1.20 lakhs.
- (v) The Governing Body approved the proposal for Networking Group: Visit to ESCORTS, Faridabad, CLAAS India Ltd., Chandigarh and IIT Roorkee, BHU, Varanasi, during 5-11 Feb. 2017 in connection with exploring possibilities to develop and implement joint projects with well-defined deliverables under National/International collaboration for Research and Development activities with Academic Institutions and R&D Organizations by Dr. Shanmukha Nagaraj et.al., to the tune of Rs. 3.30 lakhs.

160 (F) Reforms

- (i) The Governing Body approved the proposal for payment of NBA Fees for 4 UG programs, to the tune of Rs. 11.83 lakhs.
- (ii) The Governing Body approved the proposal for Payment of Honorarium to BoS Members (apart from industries), to the tune of Rs. 0.25 lakhs.

160 (G) Student Support

- (i) The Governing Body approved the proposal for supporting Remedial Classes for Electrical and Electronics Engineering branch students, to the tune of Rs. 0.15 lakhs. The Governing Body members also opined and gave its concurrence that Remedial Classes to be considered for other branches also.
- (ii) The Governing Body approved the proposal for Bridge Courses for UG Diploma Students for improving their performance, to the tune of Rs. 0.36 lakhs.

160 (I) Incremental Operating Cost

- (i) The Governing Body approved the proposal to reimburse the cost of consumables for student Innovative Projects, to the tune of Rs. 0.55 lakhs.
- (ii) The Governing Body approved the proposal for Industrial visit of PG Students: Unisys, Near Richmond Circle, Bengaluru. On 31.01.17, Vmware, 6th Phase, J P Nagar, Bengaluru on 10.02.2017 and CDAC, Byappanahalli, Bengaluru on 07.03.2017, to the tune of Rs. 0.12 lakhs.

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Sub No. 161: Approvals under TEQIP-II Sub-component 1.2.1 (Centre of Excellence)

161) Procurement

- (i) The Governing Body approved the proposal for procurement of Advanced Reference Books –COE, to the tune of Rs. 3.0 lakhs.
- (ii) The Governing Body approved the proposal to procure Deform 3D software to the tune of Rs.7.50 lakhs.

161 (B) Teaching & Research Assistantships

- (i) The Governing Body approved the proposal for release of Teaching Assistantship to additional 21 students of 2015-16 Batch @ Rs.8,000/- per month per head for a period of 17 months (10 months in the First year & 7 months in the second year), to the tune of Rs.28.56 lakhs.
- (ii) The Governing Body approved the proposal for release of Teaching Assistantship to 47 students of 2016-17 Batch @ Rs.8,000/- per month per head for a period of 7 months w.e.f. 1.9.2016), to the tune of Rs. 26.32 lakhs, subject to availability of funds as on 31.3.2017.
- (iii) The Governing Body approved the proposal of Research Assistantship for 2 candidates @ 20,400/- per head per month and 1 candidate @ 15,600- per month w.e.f. 1.1.2017 till 31.3.2017(Mr. Sudharshan HK, Ms.Sharada Suresh Dambal & Ms. Kakarla Naveena), to the tune of Rs. 1.69 lakhs.

161 (C) Industry-Institute-Interaction (III)

- (i) The Governing Body approved the proposal for Patent and commercialization, to the tune of Rs. 10.0 lakhs.
- (ii) The Governing Body approved the proposal to conduct Workshop on “Design of Effluent Treatment Plant for Biochemical Industries during 2-4 March 2017, to the tune of Rs.3.50 lakhs.

161 (D) R&D

- (i) The Governing Body approved the proposal for Workshop on “RF Circuits Design for Wearable Devices” - Prof. Arokiaswamy Alphones, NTU, Singapore, during 27-28 Jan. 2017, to the tune of Rs. 1.75 lakhs.
- (ii) The Governing Body approved the proposal for Deputation of Dr. Uma Rao K, Professor – EE., Dr. Usha J, Professor – CoE-CME. & Dr. Ashwini K B, Associate Professor, CoE-CME. to attend the workshop on “Applications of Internet of Things in Electrical & Electronics Engineering.” being organized by Malaviya National Institute of Technology, Jaipur during 28 Jan – 1 Feb 2017, to the tune of Rs. 1.35 lakhs.
- (iii) The Governing Body approved the proposal for Presentation of Project proposals to DST for funding – Prof.R.S.Sandesh, Dr.B.G.Sudarshan & Prof.S.Venkatesh, to the tune of Rs.0.40 lakhs.
- (iv) The Governing Body approved the proposal for funding presentation of Project proposals to DST to Dr.K.V.Padmaja, to the tune of Rs. 0.14 lakhs.
- (v) The Governing Body approved the proposal for expenditure on Patents, to the tune of Rs.2.0 lakhs.
- (vi) The Governing Body approved the proposal for Reimbursement of Ph.D. fees to faculty of RVCE (under R&D Other Category), to the tune of Rs. 10.0 lakhs.

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- (vii) The Governing Body approved the proposal to visit ICT Mumbai & IIT Bombay during March 2017 in connection with exploring possibilities to develop and implement joint projects with well-defined deliverables under National/International collaboration for Research and Development activities with Academic Institutions and R & D Organizations lead by Dr. Antony Raj, to the tune of Rs. 2.50 lakhs.
- (viii) The Governing Body approved the proposal for visit to IIT Roorkee & IIT Jodhpur during 22-29 Jan 2017- in connection with exploring possibilities to develop and implement joint projects with well-defined deliverables under National/International collaboration for Research and Development activities with Academic Institutions and R & D Organizations lead by Dr. Padmaja K V., to the tune of Rs. 2.63 lakhs.
- (ix) The Governing Body approved the proposal for visiting to IEST, Shibpur, Jadhav University & Techno India University at Kolkata during 30 Jan – 3 Feb 2017 in connection with exploring possibilities to develop and implement joint projects with well-defined deliverables under National/International collaboration for Research and Development activities with Academic Institutions and R & D Organizations by Dr. R. Suresh & Dr. T K Subramanya, to the tune of Rs. 1.50 lakhs.
- (x) The Governing Body approved the proposal for Reimbursement to faculty pursuing Ph.D. in Thematic Areas to 17 scholars, to the tune of Rs. 2.63 lakhs.
- (xi) The Governing Body approved the proposal for 7 days workshop on "Advances in Material Selection Complementary for Various Engineering Domains" to be organized by Dept. of IEM in RVCE from 12-18 March 2017, to the tune of Rs. 1.24 lakhs.

161 (E) FSD

- (i) The Governing Body approved the proposal for deputation of faculty members for the Workshop on Optimization using MAT LAB during 16th – 18th March-2017 to the tune of Rs. 2.20 lakhs.
- (ii) The Governing Body approved the proposal for conducting Workshop on 3D printing during 13th –15th March-2017 at RVCE, in association with IIT Bombay, to the tune of Rs. 5.50 lakhs
- (iii) The Governing Body approved the proposal for conducting Workshop on Computational Electromagnetics & Applications during 14th – 18th March-2017 at RVCE, in association with IIT Bombay, to the tune of Rs. 8.48 lakhs.
- (iv) The Governing Body approved the proposal for conducting Workshop on Research methodologies during 18th – 20th March-2017 at RVCE, in association with IIT Bombay, to the tune of Rs. 5.50 lakhs.
- (v) The Governing Body approved the proposal for conducting Training on Solar Technologies for Industrial Process – Heat & Power, Solar Photovoltaic during 22nd – 25th March-2017 at RVCE, in association with IIT Bombay, to the tune of Rs. 6.98 lakhs.
- (vi) The Governing Body approved the proposal for conducting Workshop on “Recent Advancements in Engineering Physics” during 27.2.2017 to 4.3.2017, to the tune of Rs. 2.70 lakhs.
- (vii) The Governing Body approved the proposal for Deputation of Technical Staff for the Workshop on Maintenance / repair of Electronic Lab equipment and introduction to PCB Designing at BMSIT – 16-20 Jan 2017, to the tune of Rs. 0.30 lakhs.
- (viii) The Governing Body approved the proposal for Invited Talk by Dr. Sham Aan MP on “Thermogravimetric & Swelling Studies on Natural Rubber based Super Elastomer" at an International Conference on ICASE 2017 at Bangkok, Thailand during 19-23 Jan 2017, to the tune of Rs. 0.46 lakhs.
- (ix) The Governing Body approved the proposal for Deputation of 2 Faculty members for long term training at National Centre for Flexible Electronics, IIT Kanpur for a period of 2 months w.e.f. 1.2.2017. – Dr. Divakar & Prof. Ravishankar Holla, to the tune of Rs. 1.0 lakh.

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- (x) The Governing Body approved the proposal for deputation of 8 Technical staff members to attend the workshop on “*Maintenance / repair of Electronic Laboratory Equipment & Introduction to PCB Design*” being organized by BMS Institute of Technology & Management, Bengaluru during 16-20 January 2017, to the tune of Rs. 0.15 lakhs.
- (xi) The Governing Body approved the proposal of Publication cost for 110 papers accepted and presented in ICSEM-2016 during 20-22 October 2016, in Elsevier Materials Today proceedings, to the tune of Rs. 1.50 lakhs.
- (xii) The Governing Body approved the proposal for Seed Money Projects, to the tune of Rs. 10.0 lakhs.
- (xiii) The Governing Body approved the proposal for conducting the National Conference on “Leveraging Intelligent Transport System for Enabling Smart Cities (ITS-2017) during the month of March 2017 to the tune of Rs.4.00 lakhs.
- (xiv) The Governing Body approved the proposal for deputing the senior faculty members for a Workshop on Advanced Research Pedagogy Development during March 2017 to the tune of Rs.3.00 lakhs.
- (xv) The Governing Body approved the proposal for conducting the Ideation Workshop on IoT during the month of March 2017 to the tune of Rs.0.75 lakhs.
- (xvi) The Governing Body approved the proposal for deputation of Prof. Arjun V Singar, and Prof. V Ravishankar, Assistant Professor, Dept. of IEM to attend a workshop on "Advanced Engineering Optimization through Intelligent Techniques" at SVNIT, Surat, Gujarat from 6th to 10th Feb 2017, to the tune of Rs. 0.35 lakhs.
- (xvii) The Governing Body approved the proposal for deputation of Prof. Ranjani G, Assistant Professor, Dept. of E&IE at attend a workshop on Research Trends and Development on IOT enabled 5G Wireless Networks at MSRIT, Bengaluru, to the tune of Rs. 0.02 lakhs.

161 (F) Incremental Operating Cost (IOC)

- (i) The Governing Body approved the proposal to deputy 10 Students and 2 faculty members for Workshop on End-to-End Innovation for at IIT Bombay during 30th-31st Jan 17, to the tune of Rs. 4.00 lakhs.
- (ii) The Governing Body approved the proposal for Industrial Visit of PG Students of EC to SCL Chandigarh, to the tune of Rs. 1.80 lakhs.
- (iii) The Governing Body approved the proposal for industrial Visit of PG Students of BT, to the tune of Rs.0.56 lakhs.
- (iv) The Governing Body approved the proposal for Industrial Visit of PG Students of EE, to the tune of Rs. 0.25 lakhs.
- (v) The Governing Body approved the proposal for Industrial Visit of PG Students of CH, to the tune of Rs. 0.20 lakhs.
- (vi) The Governing Body approved the proposal for Industrial Visit of 36 PG Students of EC to ISRO Satellite Centre Hassan, to the tune of Rs. 0.25 lakhs.
- (vii) The Governing Body approved the proposal for reimbursement of cost of consumables to research scholars for R&D Projects, to the tune of Rs. 10.00 lakhs.
- (viii) The Governing Body approved the proposal for Honorarium to external BoS members, to the tune of Rs. 1.00 lakhs in the departments participating in CoE.

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Sub No. 162: Ratifications under TEQIP-II Subcomponent 1.2

162 (A) Faculty Development for improved Competency

- (i) The Governing Body ratified the expenses of Ms.Ashwini I Gadag to present a paper entitled "Paraphrase Generator using dictionary lookup for kannada language" at 2nd International conference on Next Generation Computing Technologies-2016 at University of Petroleum & Energy Studies (UPES), Dehradun from 14th to 16th October 2016, to the tune of Rs. 0.11 lakhs.
- (ii) The Governing Body ratified the expenses of Dr. Srinivasan G N, Professor, Dept, of ISE to attend a workshop on Software Mining & Analysis at NITK, Suratkal, Karnataka from 17th to 21st October 2016, to the tune of Rs. 0.09 lakhs.
- (iii) The Governing Body ratified the expenses of Prof.Ujwal Srinag Meda to attend a workshop on "Advances in membrane Developments & Hands-on Experience", at Sardar Vallabhbhai National Institute of Technology, Gujarat from 17th to 21st October 2016, to the tune of Rs. 0.31 lakhs.
- (iv) The Governing Body ratified the expenses of Prof. Madhu B R, Assistant Professor, Dept. of EEE to present a paper entitled "Speed Control of a three phase induction motor using DSP controller and harmonic reduction using passive filter" at IEEE on Power India International Conference (PIICON 2016) at Govt. Engineering College, Bikaner, Rajasthan from 25th to 27th November 2016, to the tune of Rs. 0.30 lakhs.
- (v) The Governing Body ratified the expenses of Prof. Srinivasan G N (ISE), Radhakrishna (CV), Vinod Kallur (Che), Rajeshwara Rao K V S (IM), Srinivas M R (ME), and Badarinath K (CSE) deputed to attend a Seminar at Indian Technology Congress in the Jnana Jyothi Auditorium, Bengaluru from 1st and 2nd December 2016, to the tune of Rs.0.23 lakhs.
- (vi) The Governing Body ratified the expenses of Ms. Sindhu D V, Research Scholar, Dept., of ISE to present a paper entitled "Study on Machine translation approaches for Indian languages and their challenges" at International Conference on Electrical, Electronics, Communication, Computer Technology & Optimization Techniques at GSSSIT for Women, Mysore from 9th & 10th December 2016, to the tune of Rs. 0.08 lakhs.
- (vii) The Governing Body ratified the expenses of Prof. Ravi K M to present a paper entitled "A Note on IFL, IVFL & Vland Minimization of Vague (Final) States Automaton" at International Conference on Recent Advances in Mathematical Sciences and its Applications at Jaypee Institute of Information Technology, Noida (UP), India from 6th to 10th December 2016, to the tune of Rs. 0.22 lakhs.
- (viii) The Governing Body ratified the expenses of Dr. N S Narahari & C K Nagendra Guptha, Professor, Dept., of IEM to attend a conference and presented a paper "Study & analysis of warehouse operations, through heuristic optimization techniques for of an elevator manufacturing plant" at 49th Annual convention of the operational research society of India & international conference on "Analytics in operational research by at Birla Institute of management Technology, Greater Noida from 11th to 14th December 2016, to the tune of Rs. 0.53 lakhs.
- (ix) The Governing Body ratified the expenses of Prof. Shobha N S Dept., of IEM to attend a Seminar on Cutting Edge Supply Chain Strategies to Manage Dobule Digit Growth at Hotel Lalit Ashok, Bengaluru from 15th to 16th December 2016, to the tune of Rs. 0.09 lakhs.
- (x) The Governing Body ratified the expenses of Prof. Prema V, Assistant Professor, Dept. of EEE to present a paper entitled on "Personalized assignments to address skills in a heterogeneous classroom: A case study of a course on "Smart grid technologies" for publication at International conference on transformation in technical education (ICTIEE-2017) at Vardhaman College of Engineering, Hyderabad from 6th & 7th January 2017, to the tune of Rs. 0.11 lakhs.

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162 (B) R&D

- (i) The Governing Body ratified the expenses of Ms. Akshata Prasanna, Ms. Pooja, and Ms. Suchitra research Scholars to attend a conference and present a poster at Central University of Kerala, Kasargod during 3-4 Nov. 2016, to the tune of Rs. 0.10 lakhs.

162 (C) Industry-Institute-Interaction

- (i) The Governing Body ratified the expenses incurred towards Industry Visit and MOU with M/s. Secure Meter Plant, Udaipur - Prof. K N Raja Rao, R Jayapal & D.Ranganath visited during 27th to 29th November 2016, to the tune of Rs. 0.70 lakhs.

162 (D) Capacity Development

- (i) The Governing Body ratified the expenses of Dr. Rudranna Nandihalli, Professor, Dept., of EEE to attend a workshop on Training of Trainers for Suryamitra Skill Development Program at National Institute of Solar Energy, Guragaon, Haryana state from 7th to 9th September 2016, to the tune of Rs. 0.08 lakhs.
- (ii) The Governing Body ratified the expenses incurred towards deputation of Technical Staff to attend a workshop on Out Bound learning workshop on Supervisory Leadership Development Programme conducted by M/s. Padma Knowledge Engineering Pvt. Ltd. during 9-10 Dec. 2016, to the tune of Rs. 1.49 lakhs.
- (iii) The Governing Body ratified the expenses incurred towards deputation of Dr. N K Srinath Dept., of CSE & Nagashree N Rao, Dept. of BT to attend a workshop on "ISO 9001:QMS Lead Auditor Training (CQI-IRCA-UK Certified)" at Engineering Staff College of India, Hyderabad from 19-23 Dec. 2016, to the tune of Rs. 0.65 lakhs.

162 (E) Incremental Operating Costs

- (i) The Governing Body ratified the expenses incurred towards deputation of Dr. Sreelakshmi, Professor, Dept. of Telecommunication and Dr. Uma B V, Prof & Head, Dept., of Electronics & Communication to attend a Summit on "India Women Empowerment & Leadership" at Hotel Lalith Ashoka, Bengaluru during 15-16 Dec. 2016, to the tune of Rs. 0.13 lakhs.
- (ii) The Governing Body ratified the expenses incurred towards Industry Visit of VII Sem Students of EEE to Thermal, Hydro, Nuclear, Wind & Solar Plants during 23-27 Dec. 2016, to the tune of Rs. 1.20 lakhs.

Sub. No. 163: Ratifications under TEQIP-II Sub-component 1.2.1 (Centre of Excellence)

163 (A) R&D

- (i) The Governing Body ratified the expenses incurred towards Characterization of samples using XRD, TEM, etc., at CMTI by Vidya C & Shilpa Hiremath, to the tune of Rs. 0.27 lakhs.
- (ii) The Governing Body ratified the expenses incurred by Networking Group-(Controls) towards visit to MIT, NITK, Mangaluru and Pune Engineering College during 26-29 Dec 2016 in connection with exploring possibilities to develop and implement joint projects with well-defined deliverables under National/International collaboration for Research and Development activities with Academic Institutions and R&D Organizations lead by Dr. S.G. Sreevani, to the tune of Rs. 2.0 lakhs.

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- (iii) The Governing Body ratified the expenses of Prof. Shanthi P, to present a paper titled “Diode based linearization Techniques for Clom EMMIC Power Amplifier” in IEEE Indicon Conference held on 18.12.2016 at IISc, Bengaluru, to the tune of Rs. 0.09 lakhs.
- (iv) The Governing Body ratified the expenses of Prof. Saraswathi K, to present a paper titled “Efficient Estimation & Compensation of Doppler Shift for OFDM Signals in underwater acoustic communication” in IEEE conference held during 15-16 Dec. 2016 at IIT, Patna, to the tune of Rs. 0.26 lakhs.

163 (B) FSD

- (i) The Governing Body ratified the expenses incurred towards Paper Presentation in Springer Conference on Computer Communication Technologies at Vijayawada during 5-6 Nov 2016 by Prof.J.Roopa, to the tune of Rs. 0.33lakhs.
- (ii) The Governing Body ratified the expenses incurred towards Paper Presentation in International Conference on Advances in Computing &Communication at Cochin during 6-8 Sep 2016 by Prof. M.Govindaraju to the tune of Rs. 0.09 lakhs.
- (iii) The Governing Body ratified the expenses incurred towards deputation of faculty to GIAN Course on Nano Scale Wireless Networking at NIT Goa during 19-24 Dec 2016 by Mr.N.N.Nagendra & K.Viswawardhana Reddy to the tune of Rs. 0.29 lakhs.
- (iv) The Governing Body ratified the expenses incurred towards Paper Presentation in IEEE India International Conference on Power Electronics at Thapar University Patiala during 17-18 Nov 2016 by Prof.N.Ramavenkateswaran to the tune of Rs. 0.23 lakhs.
- (v) The Governing Body ratified the expenses incurred by Smt. Sudha R Karbari, Roopa J and Mrs. Rohini S Hallikar to attend a workshop on Bio & Nano Technology and Biomimetics during 12-17 Dec. 2016 at IIT Ropar Punjab, to the tune of Rs. 1.03 lakhs.
- (vi) The Governing Body ratified the expenses incurred by Smt. Sheela CS, Jayanthi P and Prof. Govindraju to attended FDP on cooperative 4G/5G MIMO wireless communication at IIT Kanpur during 28-30 Dec. 2016, to the tune of Rs. 0.24 lakhs.

163 (C) Incremental Operating Cost

- (i) The Governing Body ratified the expenses incurred towards (1) Industrial visit to CENTUM Electronics Ltd., Yelahanka New Town by EE students on 17.12.2016 and (2) Industrial Visit to Sivanasandra Solar Power Plant on 19.12.2016 by EE students, to the tune of Rs.0.18 lakhs.
- (ii) The Governing Body ratified the expenses incurred towards Technical Paper Discussions at IIT Bombay on 20.08.2016 by Mr.Kasappa Gowda GP & Manoj Singh P, to the tune of Rs. 0.07 lakhs.
- (iii) The Governing Body ratified the expenses incurred towards Travel expenditure in connection with the CoE Project review meeting at New Delhi 19.10.2016, to the tune of Rs. 0.40 lakhs.
- (iv) The Governing Body ratified the expenses incurred towards Purchase of Consumable for the Student projects of Ms. Bhagyavathi M, Biotech department to the tune of Rs. 0.25 lakhs.

Prof. K.N. Raja Rao, TEQIP Co-ordinator presented the expenditure details under Sub. Component 1.2 & 1.2.1 and sought permission from the Governing Body for re-appropriation under various heads.

Decision: The Governing Body endorsed its approval for re-appropriation of funds under various heads in Sub Component 1.2 and 1.2.1 (**Annex. 6**)

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Sub. No. 164: Discussion on audited financial accounts for the year 2015-16

The Member Secretary briefed the members regarding audited financial accounts for the year 2015-16.

Sub. No. 165: Approval of engaging Dr. Seetharamu, (Retd. Director, CPRI) as Project Director, EDMC

The Member Secretary informed the members that the institution had submitted a proposal titled “Entrepreneurship Development in Microgrid for Community Living (EDMC)” to National Science and Technology Entrepreneurship Development Board (NSTEDB), under the scheme -Innovation - Science and Technology based Entrepreneurship Development (i-STED)-DST. The total budgeted amount of the proposal is Rs. 300 lakhs and the project duration is 5 years. As per i-STED norms, the institution should have one Project Director for the project. Hence, it is proposed to engage Dr. Seetharamu (Retd. Director, CPRI) as Project Director with monthly remuneration of Rs. 50,000/- for this i-STED project, if the project is approved by DST.

Decision: The Governing Body approved the proposal to engage Dr. Seetharamu (Former Director, CPRI) as Project Director, EDMC, with a monthly remuneration of Rs.50,000/-, if DST sanctions the project.

Sub. No. 166: Approval Cadre Ratio / Structure:

The Member Secretary briefed the members that as per NBA, some of the departments needs 1.4 Professors for actual intake. Hence, it is proposed to have 1 additional Professor where intake is 60 and 2 additional Professors where intake is 120 & 180. The recruitment will be carried as per the eligibility criteria. Further, he briefed that many Associate Professors who are serving the institution since a long time, are eligible for Professors Post.

He also presented cadre ratio / structure of AICTE/VTU/NBA norms as under.

| AICTE norms (for approved intake) | VTU norms (for approved intake) | NBA norms (for actual intake - 2 nd to 4 th requirement) |
|---|---|---|
| 1:2:6 (Prof. : Assoc. Prof. : Asst. Prof.) | 1:3:8 (Prof. : Assoc. Prof. : Asst. Prof.) | 1.6: 3.2:10 (Prof. : Assoc. Prof. : Asst. Prof.) |

UGC nominee opined that faculty cadre ratio could be same across all the agencies. She also suggested that institutions should give a representation to the MHRD in this regard.

Decision: The Governing Body endorsed its approval to have 1 additional Professor over and above approved intake to satisfy the NBA requirement. The appointment will be on the basis of seniority at RVCE among the Associate Professors.

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Sub. No. 167: Approval for sharing of Research Incentives for Sponsored Research Projects / Patent Royalties:

The Member Secretary informed that the faculty are taking up consultancy and commercialization of products either through Patents or otherwise. Hence, it is necessary to have a common sharing of earnings. Prof. K.N. Raja Rao suggested the distributed proposal as under.

Sponsored Research Projects:

The faculty shall apply for Sponsored Research Projects to various agencies, organizations and industries as a part of their academic & research activities. Such proposals shall contain institutional overheads or expenditure on physical resources required for the projects (Electricity, maintenance, human resources other than PI and Co-PI, usage of instruments, usage of equipment already existing etc.) need to be added under contingency or any other head depending on the agency. Since such projects, help in projecting the achievements of RVCE and improves the rating of RVCE, in such cases RVCE will provide incentive as under:

| SL | Total Grants received | Percentage | Max. Amount |
|----|-------------------------|------------|-------------|
| 1. | < 20 lakhs | 5.00 | 0.50 lakhs |
| 2. | >=20 lakhs & < 50 lakhs | 2.50 | 1.00 lakhs |
| 3. | >=50 lakhs & <100 lakhs | 2.50 | 1.50 lakhs |
| 4. | >=100 lakhs | | 2.00 lakhs |

Monetization of patents filed:

As a rule any work corresponding to research, projects, PhD, development etc. carried out by faculty, staff and students of RVCE, will be filed as main applicant RV College of Engineering and inventors as respective faculty/ students/ staff. Such monetization will be done by a committee formed by the Principal RVCE/ RSST, inventor(s) and the purchaser. Such patents filed if monetized will have following sharing percentage.

| | Nature of monetization | Faculty | RSST | RVCE IP Cell | Remarks |
|---|--|---------|------|--------------|--|
| 1 | Direct purchase of Technology. Where the idea/ design/ prototype of patented invention will be sold to the aspiring company and it will be the responsibility of the company to further develop product and commercialize. | 60% | 30% | 10% | |
| 2 | Royalty basis for technology transferred with an agreement that inventor will build a commercial | 60% | 30% | 10% | In such cases company will support in developing the |

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| | | | | | |
|---|---|-----|-----|-----|---|
| | version of the prototype and the company will manufacture and commercialize. The royalty percentage shall be mutually agreed upon per piece manufactured. | | | | commercial version through a seed money mutually agreed upon by RVCE, inventor and company involved |
| 3 | Royalty basis for technology transferred with an agreement that the prototype will be built by the company, manufactured and commercialized. The royalty percentage shall be mutually agreed upon per piece manufactured. | 50% | 35% | 15% | RVCE will have no commitment on the commercialization or further development of the product. |

Decision: The Governing Body approved the proposal for sharing of sponsored research projects / patent royalty.

Sub. No. 168: Leadership Programme for Governing Body members:

The Member Secretary informed that as per the TEQIP norms, members of the Governing Body are required to visit and network with Premier Institutions in the country and also attend Leadership Training programmes.

Student feedback:

- 1) The student nominees opined that they may be permitted to carry out one year internship in agriculture / medical to educate the poor in villages.

The meeting concluded with thanks to the chair.

Sub. No. 169: Any Other Subjects:

Approval of Strategic Development Plan

Decision: After detailed discussions and feedback obtained from all the stakeholders, the Governing Body approved the Strategic Development Plan.


Member Secretary
Governing Body, RVCE

Principal
R V College of Engineering
Mysuru Road
Bengaluru - 560 059


Chairman
Governing Body, RVCE

Dr. M.K. Panduranga Setty
Chairman
Governing Body

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Annexure – 1

To Read and record the minutes of 19th GB meeting held on 27.6.16 and inform about the action taken.

Action Taken Report

| Sub. No. | Agenda | Action Taken |
|----------------|---|---|
| 144 | To Read and record the minutes of 17 th GB meeting held on 19 th Jan. 2016 and inform about the action taken. | Read & recorded |
| 145 | Ratification of the Proceedings of the 18th GB meeting held on 14.5.16 (By Circulation) | Ratified. |
| 146 (a) | Activities of RVCE during Jan' 16 to Jun' 16. | Principal highlighted the various activities of the institution. |
| (b) | Visit of VTU LIC committee on 4.3.16 in connection with Application for Continuation / Permanent / Temporary / Extension of Temporary Affiliation of UG & PG Programs/ Continuation of Affiliation of Research Centre. | Information provided. |
| (c) | Appointment of Faculty and Support Staff. | Information provided. |
| (d) | TEQIP activities during Jan. 16 to June. 16. | Information provided. |
| 147 | To approve the Minutes of the 20 th Academic Council Meeting held on 21.6.16. 1. List of Gold Medalists for the passing out batch of 2012-13 2. List of Rank Holders for the passing out batch of 2012-13 3. List of Graduating Students for the passing out batch of 2012-13 4. Best Outgoing Student for the passing out batch of 2012-13. | 6 th Graduation Day function was conducted on 2nd Jul. 2016. Padma Shri A.S. Kiran Kumar, Chairman–Space Commission, Secretary–Dept. of Space, Chairman–Indian Space Research Organization (ISRO), Govt. of India, was the Chief Guest and delivered the Graduation address. 921 Provisional Degree Certificates were distributed to the B.E. & B.Arch. students of 2016 passing out batch. |
| 148 | Approvals under TEQIP-II Subcomponent 1.2 | Implemented. |
| 149 | Approvals under TEQIP-II Sub-component 1.2.1 (Centre of Excellence) | Implemented. |
| 150 | Ratifications under TEQIP-II Subcomponent 1.2 | Ratified. |
| 151 | Ratifications under TEQIP-II Subcomponent 1.2.1 (COE) | Ratified. |
| 152 | Ratification of Finance Committee Meeting held on 16.3.16. | Ratified. |
| 153 | Any other subject | Nil. |

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Annexure – 2

Ratification of the Proceedings of the 20th GB meeting dt. 21.10.16 (by Circulation)

TEQIP-II Sub-component 1.2

| Sub. No. | Subjects | Financial Commitment | Resolution | Action taken |
|------------|--|----------------------|--------------------------|---|
| 154 | (I) a, b, & c: Procurement of – Simufact, Endpoint Security Software and Books | 37,72,525 | Approved | Endpoint Security software and books procured |
| | (II) a & b: Release of Teaching Assistantship to non-GATE students of 2015-16 and 2016-17 batch | 24,00,000 | Approved | Release of assistantship is under process |
| | (III) a : Travel expenditure for the speaker – Prof. Jeremy Pitt, UK in connection with International Conference CSITSS-2016 | 75,000 | Approved | Event held - Expenditure reimbursed |
| | (IV) b & c: Travel, boarding and lodging expenditure of faculty for presenting papers at International Conferences at abroad – Prof. Jyothy R and Prof. Shanmukha Nagaraj. | 3,20,488 | Subject to SPFU approval | Not permitted as per new SPFU mail |
| | (V) a & b: Journal publication charges for faculty – Prof. Ramaa and Prof. G.N. Srinivasan | 27,505 | Approved | Reimbursed |
| | (VI) a: Presentation of paper in the International Conference by Research Scholar – Ms. Sindhu D.V. | 6,000 | Approved | Not permitted as per PIP |

TEQIP-II Sub-component 1.2.1

| Sub. No. | Subjects | Financial Commitment | Resolution | Action taken |
|------------|---|----------------------|--------------------------|--|
| 155 | (I) a: Procurement of Coventor Software | 12,00,000 | Approved | Not processed due to non-availability of fund. |
| | (II) a & b: Release of Teaching Assistantship to non-GATE PG students of 2015-16 and 2016-17 | 18,00,000 | Approved | 2015-16 released. 2016-17 batch under process. |
| | (III) a: Travel, boarding and lodging expenditure of faculty for presenting papers at International Conferences at abroad – Prof. Saraswathi K | 3,76,760 | Subject to SPFU approval | Not permitted as per new SPFU mail |
| | (IV) a, b, c & d: Travel expenditure for the speakers – Prof. Moris S Eisen – Israel, Prof. Vladimir G Chigrinov-Hong Kong, Prof. M.V. Reddy – Singapore and Prof. Ajayan Vinu-Australia, in connection with International Conference on Smart Engineering Materials ICSEM-2016 | 3,79,000 | Approved | Event held - Expenditure reimbursed |

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| Sub. No. | Subjects | Financial Commitment | Resolution | Action taken |
|----------|--|----------------------|---|---|
| 155 | (V) a, b & C: Engaging of Consultants to handhold faculty for Research Projects – Dr. Narasimha Rao, Dr. E.S. Dwarakadasa and Dr. K. Sameer Bramhachari. | 4,40,000 | Approved | Engaged consultant – Dr. Narasimha Rao |
| | (VI) a, b, c, d, e, f, g & h: Release of Seed Money to the 8 project Principal Investigators | 8,00,000 | Approved | Initial instalment released |
| | (VII) a & b: Presentation of paper in the International Conference by faculty – Prof. Roopa J and Prof. Govindaraju M. | 37,500 | Approved | Reimbursed |
| | (VIII) a: Enhancement of Research Assistantship to Mr. Yadhuraj | 18,000 + 30% HRA | Approved w.e.f. the date of pre-conference viva voce. | Will be released after receiving the documents. |

Annexure – 3

(a): Activities of RVCE during Sep. 16 to Dec. 16. - Achievements of faculty & students, Appointment of Faculty and Support Staff, Result Analysis, Placement Statistics, NBA approvals, Funded Project grants & consultancy - applied /received, Patents Applied.

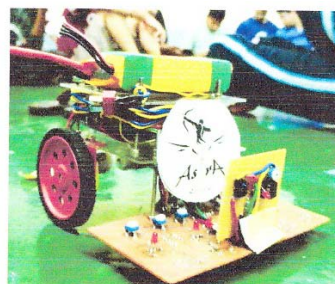
- **Dr. M.K. Panduranga Setty – Chairman, Governing Body of RVCE** and President, Rashtreeya Sikshana Samithi Trust, was conferred with ‘**Bharat Ratna Sir M. Visvesvaraya Memorial Award 2016**’ by the Federation of Karnataka Chambers of Commerce and Industry (FKCCI) on 15th Sept. 2016, on the occasion of Sir M. Visvesvaraya’s Birthday & Founder’s Day -2016 of FKCCI.



- Mr. Shreys S. Kulkarni, 1st Sem. Mechanical Engg. Dept. represented India in the **Asian School Table Tennis Championship** held at Singapore during August 2016 and **secured Bronze Medal**.
- Mr. Vineeth M, 7th Sem. Civil Engg. Dept., Mr. Rohan Raju, 3rd Sem. Civil Engg. Dept. and Mr. Shreyas N, 1st year M.Tech (Digital Communication), have been selected for Karnataka Premier League Cricket Tournament during Aug. 2016.
- ‘**Team RVCE**’ –participated in the QuEST Ingenium 2016 competition (an annual innovation contest for final year engineering students conducted by QuEST) and won a place in the **10 Team winning Team** for its project titled “Dynamic Traffic Management System” in the ‘Automobile’ domain, during Sept. 2016.
- 5th Semester students Samrudh J, Harsh Agarwal, Abhishek S and Shreyans Jain from ISE Dept. have been awarded First Runners up with a trophy and a Cash Prize of Rupees 1.5 Lakhs, in the Bangalore Hackathon event organized by Mercedes Benz and Dailmer held on 21st & 22nd Oct. 2016.



- Team ‘Astra Robotics’ secured First Place in the Trail Blazer-2016 event held at NITK during Oct. 2016.



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- 5th Sem. ISE students – Deepanksha Dhingra, Shreyans Jain and Shreyas S.B. have won **CSI-BC “2nd Best Paper” Award** (paper titled” Sentimental Analysis for Twitter Data”) during the 30th CSI Karnataka Student’s Convention, held at KSIT, Bengaluru, from 10th to 12th Nov. 2016.
- **RVCE VYOMA** team secured 1st Rank in the 2017 DBF (Design/Build/Fly) First Round of Selection for the competition to be held during April 2017.
- Ashish M Saraph 1st sem. MCA participated in 41st National Yoga Sports Championship held at Ranchi, Jharkhand from 12th to 16th November 2016.

| | |
|--|-----------------|
| Faculty acquired Ph.D. | 08 |
| Proposals submitted to various funding agencies (Faculty involved – PIs/Co-PIs: 58) | Rs. 7,35,83,989 |
| Grants received through Consultancy / Training Programs | Rs. 20,37,404 |
| Grants received from funding agencies | Rs. 30,98,434 |
| Faculty appointed | 34 |
| Support Staff appointed | 11 |
| Faculty & Support Staff Relieved | 16 |

List of Projects / Consultancy Proposals Submitted to different funding agencies (Jul. –Dec. 2016):

| Project Name | PI & Co PI | Proposal submitted to | Budgeted Amount (in Rs.) |
|--|--|-----------------------|--------------------------|
| Design and Implementation of Prototype of a 10kW Sodium Battery | Dr. V. Chayapathy (EE)-PI, Dr. G.S. Anitha (EE), Mr. M. Anantha Kumar (EE) - CoPIs | DST-MES | 55,98,000 |
| Training on Wind Tubrine Modeling and Wind Power Conversion System | Dr. V. Chayapathy (EE), Prof. Anantha Kumar (EE) | MNRE | 78,000 |
| Design of Robust ECG based Biometric System for Citizen Identification | Prof. Girish Rao Salanke N.S (CS) - PI, Prof. Manjunath A.E (CS), Dr. Sharvani G.S (CS), Dr. G. Shobha (CS) - Co-PIS | VGST-SMYSR | 6,00,000 |
| Design of Deep Learning GPU Training System to diagnose Birth asphyxia in neonates. | Minal Moharir, Praveen Gupta | DBT | 14,82,000 |
| Development of Technology for utilization of Construction and Demolition (C&D) wastes and waste plastics in Controlled Low Strength Materials (CLSM) | Mr. T. Raghavendra (CV) - PI, Prof. B. C. Udayashankar (CV) - Co-PI: | BMTPC, New Delhi | 14,91,000 |
| Achieving Academic Excellence Through Outcome Based Education and Blended Mode Teaching | Dr. Swarna M. Patra (Chemistry) | VGST (FDP-Engg.) | 2,00,000 |
| Development of novel plant growth regulators for enhancement of plant growth | Prof. Mahesh R (Chemistry) | VGST | 6,00,000 |
| Development of transparent and flexible ZnO TFTs for display applications | Dr. Divakar S.G.(Chemistry) | VGST | 6,00,000 |

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| | | | |
|--|--|---------------------|-------------|
| UV-Vis Spectrophotometric assessment of novel nitrogen heterocycles as efficient free radical scavengers. | Dr. Sridharan M (Chemistry) | VGST | 6,00,000 |
| Design and synthesis of conjugated polymer nanocomposites for the detection of organo phosphorous containing pesticide in food stuff | Dr. Vishnumurthy K.A. (Chemistry) | VGST | 6,00,000 |
| Block spot improvement project of PWP&IWT Dept. | Dr. Anjaneyappa (CV) | PWP&IWT GoK | 1,00,00,000 |
| Development of Cloud Based Adaptive Congestion Control for Smart Traffic Management | Dr. G.S. Nagaraj (CS) - PI, Prof. M.R. Sundarakumar (CS), Dr. Vinay Hegde (CS), Prof. Nithya G (CS) - CoPIs | VGST- CISEE | 10,27,384 |
| Development of a Hybrid Model for Image Restoration and Enhancement of Noisy and Hazy underwater images | Dr. Shanta Rangaswamy (CS) - PI, Ms. Manonmani S (CS), Ms. Lalitha V.P. (CS) - CO-Pis | NRB | 12,58,000 |
| Centre of Innovative Science & Engineering Education for Computing Enabled Health Studies | Dr. N.K. Cauvery (IS) - PI, Prof. Anupama H.S (IS), Prof. Sandhya S (IS) - CoPIs | VGST- CISEE | 10,00,000 |
| FDP on Lean and sustainable supply chain practices for global competitiveness | Mrs. Shobha N S | VGST | 2,00,000 |
| Atmospheric Electrical Conductivity related to Radon and its progeny concentration at Bengaluru, India" | Dr. Rajesh B.M (Phy) - PI, | VGST- SMYSR | 6,00,000 |
| Fabrication and characterization of Solid Polymer Electrolytes for Battery Applications | Dr. Sudha Kamath M.K (Phy) - PI | VGST-RFTT Scheme | 2,74,920 |
| Use of simulations and its pedagogical impact to augment Physics learning with real instruments | Prof. Shubha S (Phy) - PI | VGST- SMYSR | 5,91,380 |
| Elucidation and Analysis of Marine Deposition using UMV | Dr. Vidya Niranjana (BT) - PI | NRB | 46,52,000 |
| Development of Integrated Wireless Health Monitoring System | Dr. B.V. Uma (EC) - PI, Dr. K.V. Padmaja (IT), Dr. B.G. Sudarshan (IT), Dr. Ch. Renumadhavi (IT), Mr. Rajith Kumar B.K (EC), Mr. Subramanya K, Vice President - Essen Electronics Pvt. Ltd. - Co-PIs | DST-IDP | 49,75,000 |
| Development of 16 channels EEG Headset with Acquisition system | Prof. Sandesh R.S (PI) - IT, Prof. S. Venkatesh (IT) - co-PI | DST-IDP | 44,00,000 |
| Functional characterization of oxidative stress responsive transcription factors from rice by adopting chemical genomics approach as an alternate option. | Dr. M. Udayakumar (PI) - Dr. Nataraja N Karaba-CoPI1, Univ. of Agricultural Sciences, Dr. Vidya Niranjana-(BT)-Co-PI2 | DST-SERB | 75,08,600 |
| Validation of a high-density SNP genotyping array for QTL discovery by association mapping and bi-parental analysis in mulberry | Dr. V. Girish Naik-CSRTI (PI-1), Dr. Vidya Niranjana (BT) PI-2, Dr. Dr. Gnanesh B.N (Co-PI)-CSRTI | DBT | 36,21,120 |
| Experimental investigation of the effect of Sensor Mass, Sensor Location, and Delamination Location of Sandwich Composite Specimens under Dynamic Loading in Aircraft Structures | Dr. P.R. Venkatesh (ME) - PI, Dr. Ramesh S. Sharma (ME) - CoPI | ARDB-New Delhi | 23,50,000 |

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| | | | |
|--|---|-----------|--------------------|
| A Critical Analysis of the Effectiveness of CCTV on Law Enforcement in selected cities in India | Dr. KVS Rajeswara Rao (IM) - PI, Ms. Shobha N.S (IM) - Co PI | BPRD | 17,11,500 |
| Designing Crowd Behavioral Analysis Systems (BAS) for Law Enforcement: Crime Prevention and Detection | Dr. N.K. Cauvery (IS) - PI | BPRD | 27,28,000 |
| Assessment of Health Profile of Traffic Police and Suggested Interventions | Dr. Nagaraj G. Cholli (IS) - PI | BPRD | 26,80,000 |
| Study and Analysis of Challenges faced by Investigators in collecting evidence of Cyber Crimes in India | Dr. Vikram N Bhadurdesai (IM) - PI Prof. Prashant V (IM), Prof. Chitra B.T (IM) - Co Pis | BPRD | 12,40,000 |
| Project Management tool for tracking and collaboration of tasks | Dr G Shobha, Dr Shanta R. Prof M R Sundarakumar | CABS-DRDO | 10,00,000 |
| Development of lead free piezoelectric ceramic materials for sensor applications | Dr. M. Krishna (ME) - PI, Dr.H.N.Narasimha Murthy (ME) – CoPI | DST-SERB | 28,61,585 |
| Video System Analytics: Indexing and Summarization | Dr. Nagaraj G. Cholli (IS) - PI, Prof. Merin Meleet (IS) - Co-PI | DST-SERB | 34,40,000 |
| Development and testing of phenomenological model for the estimation of heat transfer co-efficient in vertical thermosyphon reboiler | Dr. Vinod Kallur (CH)-PI, Mrs. Anupama V. Joshi (CH) - CoPI | DST-SERB | 53,27,000 |
| TOTAL | | | 7,35,83,989 |

Training / Consultancy Activities carried out / amount received:

| Sl. No. | Training / Consultancy work | Faculty involved | Funding Agency | Amount Recd. (in Rs.) |
|--------------|--|---------------------------|---|-----------------------|
| 1 | Consultancy: Technical Advisory Services | Dr.Anjaneyappa | Public Affairs Centre | 34,650 |
| 2 | Suryamitra Skill Development Program Training to produce solar technicians | Dr.Rudranna N | MNRE/NISE | 12,84,000 |
| 3 | High throughput data analysis | Vidya Niranjana | Gen Eclat | 18,750 |
| 4 | Material Testing | Dr. Anjaneyappa | Feedback infrastructure | 1,73,912 |
| 5 | Soil Investigation at New Thippasandra | Anand Kumar B G | ADE, New Thippasandra, Bengaluru | 18,400 |
| 6 | Non Destructive Testing at Yelahanka | Anand Kumar B G | Geo logics | 15,000 |
| 7 | Material Testing | Dr. Anjaneyappa (CV) | Feedback infra Pvt. Ltd. | 2,50,567 |
| 8 | Development of Software modules | Dr. G. Shobha (CSE) | Karnataka Forest Development Corporation Ltd. | 26,125 |
| 9 | Graphics Application Development using C#.net | Prof. K. Badrinath – CSE | GCS Technologies | 1,00,000 |
| 10 | Building an integrated framework for a higher education program using visual analytics | Dr. Anupama Kumar S – MCA | Computer Society of India | 16,000 |
| 11 | Development of graphics application using C#.net | Prof. K. Badrinath – CSE | GC's Technologies | 1,00,000 |
| TOTAL | | | | 20,37,404 |

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Project Grants Received from funding agencies:

| SL No | Project Name | PI & Co PI | Funding agency | Sanctioned Year | Sanctioned amount | Amount Received |
|--------------|--|---|----------------|-----------------|-------------------|------------------|
| 1 | Design, development and implementation of an adaptable ground vehicle classification system for battlefield surveillance | Dr.M.Uttarakumari | DRDO | 2016 | 12,95,700 | 7,05,600 |
| 2 | Spatial distribution of Uranium and associated water quality parameters in Bangalore, Bangalore Rural, Ramanagara, Chikkaballapura and Kolar district in Karnataka | Dr. Rajalakshmi M (CH) – PI | DAE - BRNS | 2016 | 26,97,300 | 18,37,450 |
| 3 | Laser drilling of ceramics | Dr. B. Anand (ME) Mr. A. Bharateesh (ME) | UGC | 2013 | 9,40,800 | 2,60,184 |
| 4 | Microporopagation studies and metabolite characterization in colacasia esculenta (L.) Schott | Dr. Nagashree N. Rao (BT) Dr. R.S. Kulkarni (ME) | UGC | 2013 | 10,08,800 | 2,95,200 |
| TOTAL | | | | | 59,42,600 | 30,98,434 |

Status of projects approved / presentations made:

| Project Title | PI / Co=PI | Funding Agency | Budgeted Amount | Remarks |
|---|---|----------------|--------------------|---|
| Investigations on metabolite profile and betalains biosynthesis in Basella spp. - an edible leafy vegetable | Dr. Mohammad Imtiyaj Khan (Guwahati Univ.) & Dr. Ashwani Sharma (RVCE) - PIs. Dr. Nagashree N Rao (RVCE), Dr. Parvata Giridhar and Dr. Parameshwar Mahadevappa (CSIR-CFTRI) - CoPIs. | DBT | 9446916 | Project Proposal Recommended . Official letter yet to be received |
| Fabrication and characterization of Rapid Malaria Sensor for Malaria Detection | Mrs. Jisha P (EC) - PI, Dr.M. Suma (EC) - CoPI | DST (WOS-A) | 1500000 | Presentation made. Response awaited. |
| Design and Development of a malaria sensor | PI: Dr.Veena Devi S.V, Co-PI: Dr.M.S.Suma | DBIT | 1500000 | Presentation made. Response awaited. |
| Enabling investigations for high efficiency nanocrystalline a-Si:H HIT Solar cells | Dr. T.K. Subramanyam (Phy) - PI, Dr. R. Suresh (Ch) & Dr. M.G. Sreenivasan (HHV) - CoPIs | DST (SERI) | 9200000 | Presentation made. Response awaited. |
| Evaluation of thermal residual stresses due to Laser ablation of Tantalum Carbide coatings | Dr. Bharatish A (ME) - PI | SERB-DST | 2000000 | Proposal approved |
| Total | | | 2,36,46,916 | |

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Publications & Patents Filed:

| | |
|-------------------------|----|
| Journal Publications | 71 |
| Conference Publications | 46 |
| Patents Filed | 07 |

Placement Statistics – 2017*

| Department | Total Offers | Department | Total Offers |
|--------------------------|--------------|-------------|--------------|
| BT | 32 | IEM | 23 |
| CE | 28 | ISE | 62 |
| CHE | 38 | IT | 54 |
| CSE | 213 | MECH | 64 |
| ECE | 191 | TCE | 47 |
| EEE | 69 | PG Programs | 72 |
| Grand Total → 893 | | | |

Total offers against Students selected

| Salary break up in LPA | 2017* | |
|---|-----------------|--------------|
| | No of companies | No of Offers |
| up to 4 Lakhs | 09 | 301 |
| 4 to 6 | 32 | 219 |
| 6 to 8 | 16 | 145 |
| 8 to 12 | 34 | 95 |
| 12 to 14 | 08 | 34 |
| 14 above | 16 | 43 |
| PPO Offers & Internship Conversation | - | 56 |
| Total | 103 | 893 |

*Still in Progress

RESULT ANALYSIS OF NOV/DEC-2016 EXAMINATIONS.

| Branch Code | Semester : 1 | | Semester : 3 | | Semester : 5 | | Semester : 7 | |
|-------------|-----------------------------|---------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|
| | Number of Students appeared | Number of students passed | Number of Students appeared | Number of students passed | Number of Students appeared | Number of students passed | Number of Students appeared | Number of students passed |
| AS | 65 | 44 | 67 | 44 | | | | |
| BT | 66 | 41 | 47 | 41 | 44 | 36 | 46 | 43 |
| CH | 40 | 20 | 39 | 32 | 42 | 33 | 46 | 33 |
| CS | 191 | 145 | 244 | 187 | 224 | 184 | 226 | 200 |
| CV | 132 | 85 | 164 | 120 | 133 | 101 | 127 | 112 |
| EC | 193 | 134 | 237 | 148 | 218 | 173 | 223 | 207 |
| EE | 64 | 32 | 89 | 39 | 66 | 56 | 78 | 63 |
| EI/IT | 69 | 38 | 58 | 42 | 56 | 48 | 63 | 61 |
| IM | 72 | 34 | 66 | 47 | 71 | 43 | 57 | 53 |
| IS | 63 | 36 | 79 | 55 | 74 | 59 | 74 | 69 |
| ME | 135 | 95 | 165 | 142 | 146 | 117 | 148 | 118 |
| TE | 67 | 45 | 74 | 35 | 60 | 41 | 56 | 50 |

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| BRANCH CODE | Semester : 5 | | Semester : 7 | | Semester : 9 | |
|-------------|-----------------------------|---------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|
| | Number of Students appeared | Number of students passed | Number of Students appeared | Number of students passed | Number of Students appeared | Number of students passed |
| AR | 116 | 72 | 128 | 67 | 109 | 109 |

LIST OF FACULTY ACQUIRED PH.D (JUL.-DEC 2016)

| SL NO | NAME OF THE TEACHING FACULTY | DESGN. | AWARD OF PHD, UNI & YEAR |
|-------|------------------------------|---------------------|--|
| 1 | DR. NAGESH S | ASSISTANT PROFESSOR | VTU/ AUG 2016 |
| 2 | DR. RAJINE SWETHA R | ASSISTANT PROFESSOR | VTU/DEC 2016 |
| 3 | DR. SOUMYA A | ASSISTANT PROFESSOR | UNIVERSITY OF MYSORE/DEC 2016 |
| 4 | DR. ASHOK KUMAR AR | ASSISTANT PROFESSOR | INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI - JUL 2016 |
| 5 | DR. ROJA REDDY B | ASSISTANT PROFESSOR | VTU/DEC 2016 |
| 6 | DR. PREETHI N PATIL | ASSISTANT PROFESSOR | GULBARGA UNIVERSITY/AUG 2016 |
| 7 | DR. MANJUNATH M | ASSISTANT PROFESSOR | MANGALORE UNI/ AUG 2016 |
| 8 | DR. SHUBHA S | ASSISTANT PROFESSOR | BANGALORE UNIVERSITY/OCT 2016 |

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LIST OF STAFF MEMBERS JOINED DURING 1ST JULY 2016 TO 31ST DEC 2016

| S. No. | Name Of The Staff Member | Designation | Department | Date Of Entry |
|---------------|---------------------------------|---------------------------|------------------------|----------------------|
| 1 | Vinay K S | Technician Gr - I (Maint) | Information Sc., | 18.07.2016 |
| 2 | Sujith C Pani | Guest Faculty | Industrial Engg & Mgmt | 01.08.2016 |
| 3 | Naveen V T | Instructor | Civil | 01.08.2016 |
| 4 | Dr. Shylashree N | Associate Professor | Electronics | 16.08.2016 |
| 5 | Gajanan | Assistant Professor | Mechanical | 16.08.2016 |
| 6 | Rakesh Kumar | Assistant Professor | Mechanical | 16.08.2016 |
| 7 | Ravikiran S Wali | Assistant Professor | Civil | 17.08.2016 |
| 8 | Dr. Ramya P | Assistant Professor | Physics | 17.08.2016 |
| 9 | Shaila H Koppad | Assistant Professor | Mca | 17.08.2016 |
| 10 | Rekha Nagaraj | Assistant Professor | Mca | 17.08.2016 |
| 11 | Dr. Manjunath M | Assistnat Professor | Mca | 17.08.2016 |
| 12 | Pranesh Kumar S R | Assistant Professor | Aerospace Engg | 18.08.2016 |
| 13 | Bhaskar K | Assistant Professor | Aerospace Engg | 18.08.2016 |
| 14 | Raghavan K | Assistant Professor | Mechanical | 18.08.2016 |
| 15 | Dr. Savitha R | Assistant Professor | Mca | 19.08.2016 |
| 16 | Shrithi S Badami | Assistant Professor | Civil | 22.08.2016 |
| 17 | Deepti R Takalkar | Assistant Professor | Mca | 22.08.2016 |
| 18 | Benjamin Rohit | Assistant Professor | Aerospace Engg | 24.08.2016 |
| 19 | Dr. Srividya P | Associate Professor | Electronics | 27.08.2016 |
| 20 | Shilpa G D | Assistant Professor | Electronics | 29.08.2016 |
| 21 | Pratibha Kantanavar | Assistant Professor | Electronics | 29.08.2016 |
| 22 | Veena Gadad | Assistant Professor | Computer Science | 06.09.2016 |
| 23 | Vinutha Moses | Assistant Professor | Chemical | 06.09.2016 |
| 24 | Dr. Sowmyarani C N | Associate Professor | Computer Science | 01.09.2016 |
| 25 | Dr. Ashwini. | Associate Professor | Mca | 16.09.2016 |
| 26 | Dr. Karthik Shastry | Assistant Professor | Physics | 16.09.2016 |
| 27 | Shashi Kiran | Assistant Professor | Civil | 16.09.2016 |
| 28 | Shivakumar N | Instructor | Chemical | 21.09.2016 |
| 29 | Sathwik Hande P S | Assistant Instructor | Aerospace Engg | 21.09.2016 |
| 30 | Balakrishna | Instructor | Civil | 21.09.2016 |
| 31 | Sagar J S | Helper | Electrical | 23.09.2016 |
| 32 | Dhanraj N | Helper | Electrical | 26.09.2016 |
| 33 | Prasada S M | Mechanic | Electrical | 26.09.2016 |
| 34 | Sushmita Sarkar | Assistant Professor | Electrical | 26.09.2016 |
| 35 | Vinod Kumar M | Visiting Faculty | Ie&M | 27.09.2016 |
| 36 | Sathyaprabha K R | Visiting Faculty | Ie&M | 28.09.2016 |
| 37 | Rajavidya | Assistant Professor | Electrical | 28.09.2016 |
| 38 | Sharmila R | Assistant Professor | Mathematics | 03.10.2016 |
| 39 | Sadhakshi Devi V S | Assistant Professor | Mathematics | 03.10.2016 |
| 40 | Pavithra | Mechanic | Civil | 06.10.2016 |
| 41 | Srikantamurthy | Mechanic | Aerospace Engg | 21.10.2016 |

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| | | | | |
|----|---------------------|---------------------|----------------|------------|
| 42 | Santhoshkumara G V | Programmer Gr - Ii | Mca | 14.11.2016 |
| 43 | Dr. Ashok Kumar A R | Associate Professor | Cse | 29.11.2016 |
| 44 | Dr. Ramachandra K | Visiting Professor | Aerospace Engg | 01.12.2016 |
| 45 | Sindhu Rajendran R | Assistant Professor | Electronics | 09.12.2016 |

LIST OF STAFF MEMBERS RELIEVED DURING 1ST JULY 2016 TO 31ST DEC 2016

| S. No | Name of the staff Member | Designation | Department | Date of Entry | Date of Leaving | ON ACCOUNT OF |
|-------|-----------------------------|---------------------------------|------------------|---------------|-----------------|----------------------------|
| 1 | Channabasaveshwar Chickmath | Assistant Professor | Civil | 20.07.2015 | 23.07.2016 | On Resignation |
| 2 | Rangaswamy H D | Technical Staff | Mechanical | 03.08.2015 | 30.07.2016 | Term Ended |
| 3 | Nanjundaswamy S P | Technical Staff | Electrical | 03.08.2015 | 30.07.2016 | Term Ended |
| 4 | Nagendrappa M | SDC | Office | 01.04.1982 | 26.08.2016 | Expired |
| 5 | Dr. Adarsha H | Assistant Professor | Mechanical | 11.01.2012 | 31.08.2016 | On Resignation |
| 6 | Dr. Jagannathan S | Professor | Electronics | 01.09.1975 | 31.08.2016 | On Superannuation |
| 7 | Chandrashekar S | Sys Manager Cum Professor | Computer Sc., | 26.08.2005 | 31.08.2016 | On Superannuation |
| 8 | Dr. Ramachandra K | Visiting Professor | Mechanical | 01.06.2011 | 31.08.2016 | Term Ended |
| 9 | Hariprasad K | Technician Gr - I (Maintenance) | Information Tech | 07.10.2015 | 21.10.2016 | Term Ended |
| 10 | Sathyaprabha K R | Visiting Faculty | Ie&M | 28.09.2016 | 29.11.2016 | Term Ended |
| 11 | Vinod Kumar M | Visiting Faculty | Ie&M | 27.09.2016 | 29.11.2016 | Term Ended |
| 12 | Sujith C Pani | Guest Faculty | Ie&M | 01.08.2016 | 30.11.2016 | Deem To Have Been Relieved |
| 13 | Dr. Roopalakshmi | Associate Professor | Computer Sc., | 17.02.2014 | 06.12.2016 | Resigned |
| 14 | Shishira | Assistant Professor | Computer Sc., | 14.02.2014 | 07.12.2016 | Resigned |
| 15 | Naga Madhuri Krishna G | Assistant Professor | Electronics | 07.09.2015 | 10.12.2016 | Resigned |
| 16 | Dr. Suma M S | Associate Professor | Electronics | 11.02.2005 | 31.12.2016 | Resigned |

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List of VTU – Gold Medalists (2015-16)

| Program | Name | USN No. | Percentage |
|--|-----------------------|----------------|-------------------|
| M.Arch. (Urban Design) | Vineet Mohan | 1RW14AUD17 | 73.70 |
| M.Tech Communication Systems | Shashiprabha K.P. | 1RV14LCS12 | 82.67 |
| Digital Communication | Supriya S | 1RV14LDC30 | 84.83 |
| RF & Microwave Engg. | Shruthi B.S | 1RV14LRF16 | 75.67 |
| Computer Integrated Manufacturing | Madan Kumar S | 1RV14MCM09 | 83.96 |
| Tool Engineering | SamantGaurishMahabale | 1RV14MTE11 | 81.38 |
| Information Technology | VarshaAiyappa C | 1RV14SIT16 | 83.54 |
| Software Engineering | Shruthi A | 1RV14SSE13 | 84.54 |

List of VTU – RANK HOLDERS (2015-16)

| Program | Name | USN No. | Rank |
|---|-----------------------------|----------------|-------------|
| M.Arch. (Urban Design) | Vineet Mohan | 1RW14AUD17 | 1 |
| | R Bindu Shree | 1RW14AUD13 | 2 |
| | Ankitha Rao R | 1RW14AUD03 | 3 |
| M.Tech Biotechnology | Kumuda J | 1RV14BBT06 | 2 |
| | Sneha Sunil Kagale | 1RV14BBT12 | 3 |
| Chemical Engineering | Pradeep ShidramaiahHiremath | 1RV14HCE11 | 2 |
| | DilipMadhukarHalkar | 1RV14HCE03 | 3 |
| Biomedical Signal Processing & Instrumentation | AdhishAithal K | 1RV14LBI01 | 2 |
| | Arun Raj P D | 1RV14LBI 03 | 3 |
| Communication Systems | Shashiprabha K P | 1RV14LCS12 | 1 |
| | Chaithra B K | 1RV14LCS05 | 3 |
| Digital Communication | Supriya S | 1RV14LDC30 | 1 |
| | Waseem Ahmad Ahanger | 1RV14LDC36 | 2 |
| Radio Frequency & Microwave Engineering | Shruthi B S | 1RV14LRF16 | 1 |
| | Karthik K S | 1RV14LRF08 | 2 |
| | Yashaswini P | 1RV14LRF17 | 3 |
| Computer Integrated Manufacturing | Madan Kumar S | 1RV14MCM09 | 1 |
| | Mohan C N | 1RV14MCM11 | 2 |
| Master of Engg. Mgmt. | Nagabhushana S | 1RV14MEM09 | 3 |
| Tool Engineering | SamantGaurishMahabaleshwar | 1RV14MTE11 | 1 |
| Information Technology | VarshaAiyappa C | 1RV14SIT16 | 1 |
| | Amit P Chigadani | 1RV14SIT04 | 3 |
| Software Engineering | Shruthi A | 1RV14SSE13 | 1 |
| | Asha Patil | 1RV14SSE03 | 3 |

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Annexure – 4

b) TEQIP activities during Sep. 16 to Dec. 16.

Review of Performance Audit Report

| | | | | | |
|--|----------------------------|--|---------------|---|--|
| Name of the Institution | : | R.V. College of Engineering, Bengaluru | Sub-component | : | |
| Name of Performance Auditor of the institution | : | PROF. VIKRAM M. GADRE | | | |
| Name of Data Auditor of the institution | : | PROF.H.JAYAPRAKASHA | | | |
| | | | | | |
| CRITERIA | Rating (A, B, or C) | Comments to assist NPIU in handling the report. ¹ | | | |
| i. Completeness | A | Yes. A very comprehensive report containing all the information with evidences. Auditor has done a great job | | | |
| ii. Consistency and relevance | A | Yes. Very consistent covering all important data. Auditor assess the needs of performance audit so well | | | |
| iii. Details and specificity | A | Yes. All details have been provided. The report is also supported with data audit report. | | | |
| iv. Meticulousness | A | Very perfect report. | | | |
| v. Feedback clarity | A | Yes | | | |
| Overall rating for the report | A | Excellent report. Must be shown on institution's website. | | | |

Subcomponent 1.2 - Grants Details

Total grants sanctioned= Rs.600 lacs (400+200)

Amount received from SPFU: Rs.390 lacs

Institution's Share= Rs.110 lacs

Interest as on 31.12.16: 15.44 lacs in SB

IRG and Corpus fund: Rs.337.34 lacs (Four funds for sustainability)

*Anticipated Grant of Rs.100.00 Lacs with a sharing pattern in respect of Private Institutions in the ratio of 50% (Central Govt.) : 20% (State Govt.) : 30% (Institution).

EXPENDITURE STATUS

| Activities | Head of Expenditure | Allocation for the Project Period | Re-appropriation of Funds Rs. Lacs | Amount Spent till date Rs. Lacs | Committed Expenditure upto 31.3.17 | Total Expenditure including Commitment |
|---|------------------------|-----------------------------------|------------------------------------|---------------------------------|------------------------------------|--|
| Procurement of Books, e-Journals & Software | Procurement | 104.70 | 150.00 | 64.50 | 85.27 | 149.77 |
| Providing Teaching & Research Assistantship for Masters & Doctoral Programs in Engineering disciplines. | Teaching Assistantship | 150.00 | 156.00 | 119.45 | 45.80 | 165.25 |
| Enhancement of R&D and Institutional Consultancy activities | R&D | 97.50 | 70.20 | 60.94 | 8.86 | 69.80 |
| Faculty and Staff Development | FSD | 90.00 | 102.00 | 83.37 | 18.80 | 102.17 |
| Enhanced interaction with Industry | III Cells | 30.00 | 23.10 | 20.04 | 5.85 | 25.89 |
| Institutional Management Capacity Enhancement | Capacity development | 34.50 | 25.50 | 25.72 | 00.00 | 25.72 |
| Implantation of Institutional Academic reforms | Reforms | 24.00 | 27.60 | 16.37 | 12.08 | 28.45 |
| Academic Support for Weak Students | Student Support | 10.80 | 6.60 | 6.29 | 0.51 | 6.80 |
| Incremental operating Cost | IOC | 58.50 | 39.00 | 37.49 | 2.29 | 39.78 |
| Totals | | 600.00 | 600.00 | 434.16 | 179.46 | 613.62 |

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PROCUREMENT

| SL | Description of Procurement | Amount Rs in Lacs | Status |
|---------------------|--|-------------------|---------------|
| 1 | Software – Library(KNIMBUS) | 1.90 | Completed |
| 2 | Software – Minitab (IEM) | 1.29 | Completed |
| 3 | Software - Dassault – Solid Works (ME) | 11.68 | Completed |
| 4 | Software – SWEBOOK (CSE) | 9.20 | Completed |
| 5 | Comsol Multiphysics (EI) | 4.83 | Completed |
| 6 | Library Books | 1.25 | Completed |
| 7 | Gartner software (Institution R&D) | 18.62 | Completed |
| 8 | End point Security (Kaspersky) (Institution) | 15.73 | Completed |
| 9 | Schrodinger (BT) | 5.00 | Under Process |
| 10 | Advanced Reference Books (Library) | 10.00 | Under Process |
| 11 | Psim and add on modules (EEE) | 17.34 | Under Process |
| 12 | Cyber Forensic Software tools (ISE) | 14.18 | Under Process |
| 13 | ADS, SystemVue, EmPro (TCE) | 24.00 | Under Process |
| 14 | HDM4 Software (CE) | 2.50 | Under Process |
| 15 | PTV Vsim (CE) | 4.75 | Under Process |
| 16 | DForm 3D Software (ME) | 7.50 | Under Process |
| Total Amount | | 149.77 | |

ACTIVITIES: ACADEMIC

| ACTIVITIES Since 2012 | NUMBER | ORGANIZED BY | PARTICIPANTS |
|--|--------|---|--------------|
| FDP CONDUCTED | 98 | RVCE | 3825 |
| FDP ATTENDED | 91 | IITs and other institutions | 126 |
| CONFERENCES CONDUCTED | 11 | RVCE | 1143 |
| CONFERENCES ATTENDED | 43 | Other Institutions | 68 |
| SUMMER SCHOOLS ATTENDED | 02 | IIT, Gujarat & Gandhinagar | 6 |
| BASIC PEDAGOGY (For RVCE faculty) | 8 | RVCE & Other Institutions | 262 |
| ADVANCED PEDAGOGY (For RVCE faculty) | 1 | RVCE | 43 |
| PAPERS PRESENTED IN CONFERENCES ABROAD | 13 | Thailand, Turkey, Taiwan, Mauritius, USA, Canada, France, China, London | 13 |
| SESSION CHAIR ABROAD | 02 | Germany, Spain | 02 |
| POSTER PRESENTATION BY RESEARCH SCHOLARS | 04 | Other Institutions | 05 |
| MANAGEMENT SKILL DEVELOPMENT | 67 | RVCE, IACE & other Institutions | 191 |
| SUPPORT STAFF PROGRAMS | 25 | RVCE, IACE & other Institutions | 308 |
| E-WASTE MANAGEMENT | 05 | RVCE | 372 |

Research outcomes

| ACTIVITIES | NUMBER |
|------------------------------|--------|
| Journal Publications | 1162 |
| PhD (Awarded) | 26 |
| PhD (Pursuing) | 145 |
| Patents filed | 24 |
| Patents under review | 03 |
| Commercialization of patents | 01 |

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Student industrial visits under TEQIP

| | |
|--|---|
| <i>Industrial Visit to Boruka Solar Power Plant at Chitradurga</i> | V Semester Electrical Students |
| <i>Industrial Visit to various power generating stations like Thermal, Hydro, Nuclear, Wind and Solar Chitradurga, Karwar, Shimoga, Varahi & Managlore</i> | VII Semester Electrical Students |
| Industrial Visit to Mangalore, Bhadravathi & Shimoga | 33 PG Students, Dept., of IEM |
| Industrial Visit to Gokul Dairy Farm, JP Distilleries & Kunigal Stud Farm | 40 students of VI Semester BT |
| <i>Industrial Visit to SAP labs</i> | M.Tech (IT & SE) Students |
| <i>BANGALORE INDIA BIO</i> , organized by IT and BT departments of Government of Karnataka | Poster Presentation by students, 9 th -11 th Feb 2016 at Lalit Ashok Hotel, Bengaluru |
| <i>Mandya Milk Union and Heritage Winery</i> | 45 students of VI semester BT |
| Proposed Industrial Visits by Four Departments | 220 students |

Subcomponent 1.2.1 (CoE) – Grants Details

Total grants received : Rs. 400.00Lacs

Grants pending: Rs. 100.00 Lac

EXPENDITURE STATUS

| Activities | Head of Expenditure | Allocation for the Project Period | Re-appropriated allocation | Amount Spent as on 30.06.2016 Rs. In Lacs | Committed Expenditure | Total Expenditure including Commitment |
|---|---------------------|-----------------------------------|----------------------------|---|-----------------------|--|
| Providing Teaching & Research Assistantship for Masters & Doctoral Programs in Engineering disciplines. | Assistantship | 110.00 | 135.00 | 76.07 | 58.75 | 134.82 |
| Enhancement of R&D and Institutional Consultancy activities | R&D | 85.00 | 66.00 | 17.89 | 48.13 | 66.02 |
| Faculty and Staff Development | FSD | 85.00 | 120.00 | 65.50 | 53.20 | 118.70 |
| Enhanced interaction with Industry | III Cells | 45.00 | 25.00 | 5.58 | 19.55 | 25.13 |
| Incremental operating Cost | IOC | 50.00 | 29.00 | 9.22 | 19.88 | 29.10 |
| Procurement of Books, e-Journals & Software | Procurement | 125.00 | 125.00 | 122.20 | 3.00 | 125.20 |
| Totals | | 500.00 | 500.00 | 296.46 | 202.51 | 498.97 |

PROCUREMENT-COE

| SL | Description | Amount Rs in Lacs | Status |
|---------------------|---|-------------------|-----------|
| 1 | Software – Lumerical Products- FDTD Solutions | 13.61 | Completed |
| 2 | Software – Synopsis Design Compiler | 20.47 | Completed |
| 3 | Software – Turnitin Anti-Plagiarism Software | 8.59 | Completed |
| 4 | Software – Ansys Multiphysics Campus Bundle | 23.57 | Completed |
| 5 | Software – SILVACO EDA Tools | 18.49 | Completed |
| 6 | Software – SILVACO TCAD Tools | 14.77 | Completed |
| 7 | Software – Ansys Academic Multiphysics Campus Solution (Ver 16.0 to 17.0) | 16.27 | Completed |
| 8 | Books – CoE – Print Media | 6.42 | Completed |
| 9 | Books – Advanced Reference Books CoE | 3.0 | Planned |
| Total Amount | | 125.20 | |

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Important Activities under CoE

| Sl No | Deliverables | Progress |
|-------|--|-----------------------|
| 1 | No of faculty involved | 60 from 7 departments |
| 2 | No of PhDs pursuing related to COE | 24 |
| 3 | No of publications in Journals National / International | 5/ 37 |
| 4 | No of publications in Conferences ; National / International | 17/24 |
| 5 | No. Of Workshops/ Conferences/ Training programs | 30 |
| 6 | Number of patents filed / Under Process | 07/02 |
| 7 | Number of Ongoing external R&D projects | 08 |
| 8 | No. of Projects applied to sponsored agencies | 10 |
| 9 | No. of MoUs with academia: | 03 |
| 10 | No. of MoUs with industry: | 13 |
| 11 | No of PG programs started | 02 |
| 12 | No. of laboratories established | 02 |
| 13 | No. of Assistantship given in the thematic area of CoE (a) M.Tech. (b) PhD | 15+11+33 06 |

Achievements of COE

- In the JRM conducted by MHRD at New Delhi, CoE was named as well performing CoE and Report has been received.
- New Elective Courses Introduced in the UG Curriculum:
[Flexible electronics, Tera Hertz Communication, Sensors and Systems, Wearable electronics, MEMS & Systems, fabrication processes.](#)
- Motivating faculty to take up interdisciplinary research activities leading to devices and systems.
- No. of Prototypes on sensors, TFT and solar cells developed :10
- No. of patents are filed: 07
- [Commercialization in process: 01](#)

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Annexure – 5

Approval for filing ISO 9001:2015 Certification.

Progress/plan of implementation of ISO 9000 Quality System Standards

a. Progress so far:

1. Engagement of Consultant M/s Silver Linings on 24.10.2016.
2. Nomination of Quality Leaders – Registrar and N K Srinath, Dean (Student Affairs) and Core-Team Members.
3. Awareness Training for the top management Principal/HODs/Deans /Asso Deans/ NBA/NAAC Co-ordinators and IQAC members on 4.11.16. In all 52 members attended the training.
4. Awareness training for core team on 22.11.16 – 37 members attended the training.
5. Formation of Quality Policy.
“Excellence in Technical Education, Interdisciplinary Research and Consultancy through Outcome Based Curricula focusing on Continual Improvement by Benchmarking with Global Practices & beyond Stakeholders expectations”.
6. Training Programme on Documentation for ISO 9000 Quality Systems on 7.12.16 between 9 A M to 5 P M, attended 32 members
7. Lead Auditor Training of Dr. N.K. Srinath-Dean (Student Affairs) and Dr. Nagashree N. Rao, Assoc. Professor, Biotech Dept. from 19th to 23rd December 2016 at Engineering Staff College of India, Hyderabad.
8. Visit of two teams to MSRIT & SIT-Tumakuru: One headed by Prof N.K. Srinath along with Dr. S.C. Prasanna Kumar, Professor, Dept. of EIE and Mr. S.K. Venkatesh, Admin Manager and the other headed by Dr. K. Sreelakshmi, Professor, TCE Dept. along with Dr. Nagashree N. Rao, Associate Professor, Dept. of Biotechnology and Dr. K.V.S. Rajeshwara Rao, Associate Professor, Dept. of IEM, visited MSRIT and SIT respectively to see the implementation of ISO 9000 on 29.12.16.
9. Quality Manual under preparation

b. Future plan:

| Sl. No. | Item | Expected date of completion |
|---------|--|--|
| 1 | Visit to BEML/Mysore with regard to calibration of equipment/instruments/ gauges and also about NABL Certification. | 4 th week of Jan. 2017 |
| 2 | Finalisation of Quality Objectives | 25 th Jan. 2017 |
| 3 | Preparation of <ul style="list-style-type: none">• Quality Manual• Quality Procedures• Work Instructions• Formats | 15 th Feb. 2017 28 th Feb. 2017 |
| 4 | Awareness training of all employees | Feb/March 2017 |
| 5 | Training on Internal Quality Audits | 3 rd week of Feb. 2017 |
| 6 | Implementation | From March 1 st week 2017 |

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| | | |
|----|---|---|
| 7 | Internal Quality Audits – 2 no.s | March/April 2017 |
| 8 | Selection/engagement of certifying agency | April 2017 |
| 9 | Pre assessment audit by certifying agency | Last week of April 2017 |
| 10 | Final certification Audit | 1 st /2 nd week of May 2017 |

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Annexure – 6

Expenditure and Re-appropriation of Funds under Sub Component 1.2 and 1.2.1:

Expenditure and Re-Appropriation of funds (1.2)

| Activities | Head of Expenditure | Allocation for the Project Period | Re-appropriation of Funds Rs. Lacs | Amount Spent till date Rs. Lacs | Committed Expenditure upto 31.3.17 | Total Expenditure including Commitment |
|---|------------------------|-----------------------------------|------------------------------------|---------------------------------|------------------------------------|--|
| Procurement of Books, e-Journals & Software | Procurement | 104.70 | 150.00 | 64.50 | 85.27 | 149.77 |
| Providing Teaching & Research Assistantship for Masters & Doctoral Programs in Engineering disciplines. | Teaching Assistantship | 150.00 | 156.00 | 119.45 | 45.80 | 165.25 |
| Enhancement of R&D and Institutional Consultancy activities | R&D | 97.50 | 70.20 | 60.94 | 8.86 | 69.80 |
| Faculty and Staff Development | FSD | 90.00 | 102.00 | 83.37 | 18.80 | 102.17 |
| Enhanced interaction with Industry | III Cells | 30.00 | 23.10 | 20.04 | 5.85 | 25.89 |
| Institutional Management Capacity Enhancement | Capacity development | 34.50 | 25.50 | 25.72 | 00.00 | 25.72 |
| Implantation of Institutional Academic reforms | Reforms | 24.00 | 27.60 | 16.37 | 12.08 | 28.45 |
| Academic Support for Weak Students | Student Support | 10.80 | 6.60 | 6.29 | 0.51 | 6.80 |
| Incremental operating Cost | IOC | 58.50 | 39.00 | 37.49 | 2.29 | 39.78 |
| Totals | | 600.00 | 600.00 | 434.16 | 179.46 | 613.62 |

Expenditure and Re-Appropriation of funds (1.2.1)

| Activities | Head of Expenditure | Allocation for the Project Period | Re-appropriated allocation | Amount Spent as on 30.06.2016 Rs. In Lacs | Committed Expenditure | Total Expenditure including Commitment |
|---|---------------------|-----------------------------------|----------------------------|---|-----------------------|--|
| Providing Teaching & Research Assistantship for Masters & Doctoral Programs in Engineering disciplines. | Assistantship | 110.00 | 135.00 | 76.07 | 58.75 | 134.82 |
| Enhancement of R&D and Institutional Consultancy activities | R&D | 85.00 | 66.00 | 17.89 | 48.13 | 66.02 |
| Faculty and Staff Development | FSD | 85.00 | 120.00 | 65.50 | 53.20 | 118.70 |
| Enhanced interaction with Industry | III Cells | 45.00 | 25.00 | 5.58 | 19.55 | 25.13 |
| Incremental operating Cost | IOC | 50.00 | 29.00 | 9.22 | 19.88 | 29.10 |
| Procurement of Books, e-Journals & Software | Procurement | 125.00 | 125.00 | 122.20 | 3.00 | 125.20 |
| Totals | | 500.00 | 500.00 | 296.46 | 202.51 | 498.97 |
