

Profile

Name : Satya Prasad Paruchuru, MS in ME, Ph.D., Fast Track (2003) and BOYSCST Fellow of DST-GoI

Designation: Professor; Alumnus of JNTU, AY 1988-1992

Department: Mechanical Engineering, VNRVJiet, Hyderabad-500090

Email ID : psprasad@vnrvjiet.in



Total Experience (in years)	Teaching	Research	Others (if any, specify):
31+	31+	31+	5 (Industry)

Objective: To remain in the academic fields of Technology and Engineering, with focus on the institutional and professional interests, in alignment with the institutional Vision, Mission, Quality Policy, and Goals, in order to continue to produce the professionals of quality that is justifiable with the enrolled programme of study, for the wellbeing of the profession

Summary:

Work Experience that projects the versatility of investment and reachability, as appropriate to the specific academic position : Responsibilities and post-qualification (i.e., subsequent to the attainment of the qualifications, namely, B.Tech. at JNTU College of Engineering, and simultaneously Advanced Diploma in Systems Management at the National Institute of Information Technology – Regional Center and NCC training) experience at MNCs and nationally, commensurately professionally, and internationally reputed organizations over the past few decades, in order to meet the purpose of engineering education (details at point 7) ; design of the enrolled-aware curriculum for UG to enable the enrolled/ taught, achieve trustworthiness, as relevant to the programme of study ; the curriculum improvements from 2011 resulted as a means to handle unawareness, alleviate fears, and tackle with courage ; first to implement instructing ‘engineering drawing and graphics courses, and the relevant courses’ of the institution using CAD, continuously from 2011 in the undivided state, in spite of severe conservatory pressures due to the non-existence of the consistent practice in the nation ; organized preparatory course on CAD for the faculty members who taught engineering graphics, engineering drawing, machine drawing, production drawing, etc., by the manual drafting methods ; Sufficient time lapsed to perceive the unsuitable apprehension?

Purpose of implementation: (1) **Basic career essential** and **pre-requisite** for understanding CAD software as appropriate to the core engineering specializations of UG and (2) Spending time with CAD software in the first year imbibes the **practice** of various software concepts that are relevant to the other engineering specializations of UG ; later, it became the continuous practice at the participating institutions of the nation ; within the tenure of much less than an year (details at the point 2.2) ; Relevant example? Subsequent progress - UG programmes? **Result: Upgraded the quality** of the **UG programmes** of study and the **ethically teaching faculty research** by providing feasible and **respectful access** to the world class learning resources - R11, R12, and R13 ; An ample opportunity?

Worthiness of the Specific Academic Experience - Subsequent to the completion of Master’s qualification, work experience at UTHSCSA, MNC experience mentioned in the previous point, and academic experience : openly competed for Fast Track (2003) and BOYSCAST

(2005) research fellowships of DST, GoI : applicants are the scientists of national research organizations including all the DRDO and National Laboratories as well as the faculty members from the Indian institutions as well as the institutions of national importance including IITs/ IISc., in the areas of science, **technology, engineering**, mathematics, and medicine (further details, up to the present day, at 5.7, 5.8, 5.9, and 5.10) and continued in spite of the bitter professional and personal constraints, for the past two decades. Every precaution has been taken as the faculty member and the investigator to abide by the guidelines of the authorities eg. (1) Exclusive contribution to the enrolled UG, (2) awareness of time, efforts, and expense involved in producing a commensurately technical result in spite of the prevailed awareness, and (3) protection of the institutional resources ; Relevant example to perceive the unethical efforts, when the schedule, non-allocation, allocated activities like the commensurate inputs, and indicatively ascribed activities like – the Quality, Quantity, and Communication of teaching - short term courses - participating project dissemination - sponsored research projects of post-graduate level, post-doctoral level, and the senior post-doctoral level, etc., explained either ‘the lack of effort to know the time-extent involved in a professionally genuine activity’ or the unawareness ; anybody affords the blame-alternative? Right to protect the interests of the institutional co-authors!

Result: Improved the quality of the programmes of study and the ethically teaching faculty research

In spite of the systemic barriers : Presently the employment institution offers no Ph.D. programme/ degree ; however, the institution facilitates the guidance of GoI nominated candidates, time to time, with a provision to register (enroll) at JNTU-H, as such a provision does not exist at the institution ; efforts to produce the consistent academic development for UG - for the noble cause of attaining exclusivity for UG programmes - amidst of the professional constraints, explain? **Result:** A publication at the most reputed journal of ASTM + 11 unique journal publications, only with the UG/ Graduate students and/or the guide – man years of work including UG, PG, doctoral, post-doctoral, senior post-doctoral, professorial, and senior professorial contribution at the varied education systems? Explains?

Education that reflects the expense of life : Earned UG qualification, after attaining an EAMCET rank of 417, through a regular 4 year programme at the University (main campus) College of Engineering , JNTU (now JNTU-H) during AY 1988-1992 ; simultaneously earned comprehensive and dual qualifications from NIIT-Regional Centre (RC) for the undivided state, and undergone NCC training, during the mentioned time ; such a programme acted as one of the means to gain the necessary comprehension, knowledge, skills, and capabilities to impart training ; the programme demonstrated the need for competency and consistency in education and the subsequent employment, provided the essence to interpret qualification as a means to further the ambition and not as granted, inferred to provide the supervision in order to further the goals and inculcate trustworthiness, emphasized the contribution of such an academic programme to overcome the apprehensions and face the actuality, and sufficiently hinted to continue the consistent and able work ; **Result:** Admission at an international university

Contemporary PostGraduate education ; achievement of the cognizant-atmosphere and objectives, to balance and benefit the life of the enrolled UG in the chosen way ; guidance for the projects of high impact and comprehension ; **Result:** Publications in ASTM

Exclusive career education imparted up to date (as applicable to the education and experience) : Initiation of the practice of organizing the full time short term courses/ faculty development programmes of a minimum of 40 hours each, that does not seek any kind of financial support from the funding agencies or the employer, in UGC/MHRD/AICTE approved colleges - when there existed no mandatory curricular requirement for the students at the employment institution ; Fifteen short term courses of 24-96 hour duration (details at point 4), those conformed to the aforesaid norm, eleven other technical programmes (details at point 3.2), and several other professional programmes as the coordinator and instructor ; effective utilization in implementing the significant curricular-improvements ; details at point 2.2, 3.2, and 4.0 ; Leveraged and updated the activity to the next level by emphasizing the purpose, from 2010? insecure feeling? Relevant example that suggests – on continuing the needful? **Result:** Improved the quality of the programmes of study and the ethically teaching faculty research - within the short administrative tenure? ; An ample opportunity to identify the benefit of pioneering efforts?

Feasibility studies and further developments - educational programs, sectorial revival, etc. ; Learning resources - comprehensive, confident, and effective education with sufficiency ; Development and implementation of a concept, ‘bridge course’ as a means to significantly improve the ‘learning methodologies’ ; Curricular improvements with significant progress - to benefit the enrolled UG/ surroundings ; **Result:** Transformation into Policy, R11, R12, R13 ... R22 and ethically teaching faculty research

Initiation of the practice of summer project training (as applicable to the education and experience) in the undivided state, for the undergraduates for a minimum of 30 full time working days ; continuation of the same by extending to the department level for the existing industry oriented mini-project as the Head of ME/ AME from 12.2010 to 08.2011 ; witnessed an unimaginable reaction in 2011 while being involved in the various prevailing initiatives as the Head of the Department and Chairman-Board of Studies-Mechanical Engineering Department (ME) and Automobile Engineering (AME) Department, e.g. (1) R11 for the first autonomous batch, (2) finishing school, (3) preparedness for R11, (4) Research oriented short term courses to prepare for R11, (5) direct course development and instruction through the faculty preparatory programme to introduce CAD to teach ‘engineering drawing and graphics courses, and the relevant courses’ effective from 2011 to those faculty members who taught the relevant courses without CAD, (6) preparation and submission of an application for National Board of Accreditation (NBA) recognition, (7) preparing for the recognition of the department as academic excellence, (8) submitting several external funding applications, including a fetched sponsored research project, with state of the art equipment and a grant for the up gradation of laboratory with the proposed equipment development plan, etc. and (9) withstanding the ‘unethical and behavioral advances’ ; Relevant example to understand the

need to conform with the essentials in tricky situations? **Result:** the initiative catalyzed the ‘enrolled-training’ and the completion of Ph.D. of the ethically teaching faculty members

Preparation - R11: Demonstration and practice sessions on breathing and relaxation exercises, and subsequent discussions on the technical topics that are part of the curricular courses, immediately prior to the sessions ; help to interpret the ‘nationally, commensurately professionally, and internationally’ good textbooks and to remind through effective methods about the need to purchase the textbook of every course, well before the commencement of the respective semester as well as the retention of the same practice ; academic help to those who travel long distances : allocation of office hours, prior to the commencement of sessions ; training with effective diet practices to facilitate the ‘advanced learning’ and healthy life ; on playing a crucial role to enable and support an ethical, stable, healthy, and happy society ; Suitable example to identify that the personnel are within the administrative control, and continue with the essentials? **Result:** Relevant academic projects that brought the national reputation and ethically teaching faculty research ; R11, R12, R13, ...R22

Time effective academic service up to date : details at points 5.7 and 5.8 ; Initiation of the state of the art research facilities with access to the world class learning resources to further the multifaceted education and ethics, for over two decades. Post Graduate level, Post-Doctoral level, and Senior Post Doctoral Level Sponsored Research Revenue: Started with a sponsored research project as the Principal Investigator which fetched 2.5% of the annual revenue of the institution, at a self-financed affiliated college. Details at 5.9 and 5.10. Learning methods in accordance with the ‘chosen field and interest’ - to ensure the integrity ; Ethical practices and thinking to ensure a stable economy ; Development of courses/ laboratory resources to alleviate the learning difficulties ; Sufficient time lapsed to understand the losses, while being entrusted with the concerned responsibility ; **Result:** R11, R12, R13 ... R22, unique publications, and ethically teaching faculty research

Development and implementation of all time and high quality syllabus and curriculum of the nation for the undergraduate mechanical and automobile engineering programmes of 2011-2015 as HoD, ME and AME during 12.2010 to 08.2011 and Chairman of the department board of studies during 01.04.2011 to 31.05.2012 ; proved at the right time and have been proving the essence as an academician in technology and engineering, amidst of adversities ; continuation of the quality, quantity, and communication ; extension to various other programmes (point 2.2) ; initiation of the intention? (reaction for continuing the technical activities inculcated from early 1990s - the organizational structure which intended to ensure the progress, was inadvertently overridden?) Relevant example to understand the compatibility, repercussions, and the subsequent enrollment – any effort or intervention to ensure exclusivity for the UG programmes? **Result:** Tribute for the gracious award of autonomy to the institution, in 05.2012 (effective from AY 2011-2012), for the starting initiative of UG R11, ME/ AME and the ethically teaching faculty research

Demonstration of the importance of improving the absorption of certain basics/ prerequisites of the chosen field that fosters the continuous learning ; Insistence on continuing to achieve

excellence and exclusivity in skills and capabilities, apart from the depth of knowledge to ensure the effectiveness ; **Result:** Saved effort and time ; ensured contentment

Socrates: Superior Minds discuss ideas ; Average Minds discuss events ; Weak Minds discuss names

Inference: An idea may be explained by means of an event ; mention of an example (case study/ enterprise/ entity? Need for cautiousness about the possible wrong interpretation of an example) might provide the further understanding of the corresponding event/ idea ; every mind plays appropriate roles including the mentioned, while addressing the distributed requirements of the audience ; clarity on the purpose ; role of the presenter might vary from that of the enrolled ; every individual might have a distinct objective ; perceivable comprehensiveness may be essential to develop in to an all-round personality that supposedly preserves the immortal values of ancient culture and tradition ; most of the ancient philosophers/ scientists suffered due to lack of food and ensured accessibility of the sustainable resources, for the globe ; precaution is necessary to improve the skills and capabilities and also preserve the confidence of the broad set of audience? to make use of the institutional mechanisms to grasp the professional essence?

Interpretation: Being a technical (**mechanical**) professional with a **hefty regular salary** and **incompatible UG qualification** [legitimate? moral? learning from 1991-1994 intended to serve the specific purpose of education that was contrary to the administrative role? Sure about the stance? regulatory guidelines? Justification for the administrative position in the department that offers predominantly 4 year programmes? The movements to submit the department data of the applications of the institution for accreditation, NAAC, etc., excluding the exclusive, essential, and relevant details by abstaining – to the extent that it is severely harming the strength of the department with the stance that nothing happens to me? Eg. Without giving the information on how exclusively the department was able to retain the contributors to academics and ASTM/ASME journal publications, published while serving the institution for prolonged time, how can the regulatory authority reasonably evaluate the application? How such information will influence the evaluation process? examples? If the application reflects the institutional facts, will there be any scope for surprise. Perceive the well-known examples? The reason for telling the factual statements is provided at the end of the parenthesis. Even after availing unlimited opportunity, expending 90+% of the recent tenure, from 08.2021, and not cognizing? After observing continuously from 2009, requesting the institution to include the communication, in the personal file, from 2022, did not help to understand the situation? – other than continuing the methods to provoke the naïve faculty members – If there is a dispute among two people, the situation is troublesome because, each person is like an eye to the institution - Therefore the institution only indicates to overcome the inter-personnel glitches – However, if a person gained the skill to misinterpret in an undue manner, what role can the institution play? If the other person is abnormally tolerating such behaviour, and striving to perform in spite of the hurdles posed, what role can the institution play? What other option is available to prevent the repetition of the notorious and influential misleads? – after attaining the confirmation about the role up to 2015 and after

2015 – even after (1) experiencing unimaginable repercussions, and still being modest in the best interests of the profession, (2) tolerating with the humanitarian stance of not obstructing the tenure of a faculty member or administrative faculty member, (3) overcoming the repercussions by the abnormal adjustments made, over an abnormal amount of time, in spite of the bitterness, (4) witnessing the misuse of the designation/ influence, department/ institution resources, infrastructure, etc., for influencing the people who do not have an opportunity to understand the facts, e.g. association/s and following silence due to the abnormal tolerable limits from 2009? (5) understanding the advances to hurt the interests of the co-authors, considering that the co-authors up to 2016 are in another continent, and trying to use the situation to get the undue clues on their future work to favour someone, (7) after witnessing to harm the technical and financial position by causing the delay, (8) misguiding the department, by creating the false image of the professional activities, and (9) also understanding the limitation of the supervisory personnel on the mentioned matters – I am left with the only option to give awareness on the matters that are responsible for the situation, thereby functioning to improve the situation within the reasonable influence, with the preparedness to competently face the abnormal situations being caused, against the conscience of the institution– Also, pages 7 and 17], is nothing but mocking and ridiculing the efforts of professional orientation, undergone (at least from 2015)? responsibility? influence? who gets benefitted? intention is clear? Any proactive measures, in spite of the dissatisfaction over the source that substantially served the purpose and cannot give anymore, due to the contribution? result? remuneration/ tendency – one of the reasons for the abnormal bias/ behaviour? repercussions? **Any understanding of the consequences of not intimidating the needful?** – Undue encroachment being one of the reasons? Floating the same format to the academic assistants and professors, being one of the reasons? encouraging plagiarism? encouraging illegitimate tendency? repercussions? Awareness? Causing? Modalities on the specifics will prevent the unawareness? continuing? just the thought process might revive? is it appropriate to be unnecessarily apprehended, just with the fear of not being able to follow undue short-cuts – after feeling the unethical freedom by understanding insufficiently?

A popular portrait with closed eyes, another portrait with closed ears, and another portrait with closed mouth

Inference: Life, entrusted by the nature and God has prominence

Not even a minute's time spent on OD/ leave of absence in the name of an observer, resource person, or any other role external to the employment institution at any point of time and in any form (point 7 for the complete list of 'unique employer at each time') ; belief in the practices of nationally, commensurately professionally, and internationally reputed institutions that aim at the deserving institutional and national growth through exclusivity ; actuality versus interpretation

Not even a paise (penny) or its equivalent, other than the regular salary in any form or at any time, in total or by parts – not even a paise (penny) or its equivalent, more than the deserved, as salary or any other form, at any time in total or by parts – suitable savings plan versus

remuneration/propagation? ; nothing unauthorized at any time either by the employment institution or the government - world acknowledged qualifications and credentials, never poised at deceiving anybody or any other entity by the reason of ignorance or any other ; commensurate training in spite of the glitches ; regular and classroom education of sufficient quantity, quality, and communication for the righteous purpose of education ; educating the possible extents ; the exclusive purpose of each individual and the requirement of rational balance for the useful existence ; enthusiastically and interestingly surviving for the purpose of education, in a less aware 'field and domain' consisting of few qualified people, where insufficient comparisons and impatience supersede in all the matters ; habits that develop over a period of time and illegible promises appear to be the reason for intense thoughts or actions ; *remuneration/ moonlighting* – consequences if it was perceived late? – actuality/ preparedness

The enrolled UG and 'work force' need to be wary about the unknown and unpredicted consequences of 'Attending the Classes from Home' and 'Work from Home', obviously due to the lack of understanding of the new situation that never existed in the recent history ; to remember that the members of family need sufficient time to understand the stance and the inherent consequences ; a meticulous and patient explanation by sparing sufficient time is necessary to avoid such misunderstanding ; especially Dedicated/ Trustworthy/ Talented/ Mighty/ Capable enrolled UG and 'Work Force' need to observe special attention to the situation for the reason that it is hard to find the necessary spare time in the schedule, due to preoccupation by knowledge-thoughts ; restraint from the contempt-answers is primary ; think twice if your answer may hurt the other members of the family ; integrity is important ; **Result** : Preparation for the effective work ; essentials to receive the remuneration

Improvement of skills and capabilities in an ethical manner to gain the relevant exclusivity

Lack of ethics in interpreting the effectiveness of a professional activity at a point of time, can cause abnormal circumstances. **The interest on plagiarism/ time-expense may be transformed in to useful processes** ; In most of the situations, the response towards the validated initiative efforts evolves as an objectionable behaviour that can lead to the practices which presume the presence of an illegitimate tendency. After identifying the absence of such a presumption, the revelation can lead to the propagation of a piece of information that can never be substantiated by any legitimate methods and stand in the way of contemporary progress – Furthermore, the tendency towards the unawareness, allocation, non-allocation, resource orientation, and the sufficiency of people, catalyse further and there is seldom time to question the authenticity of the interpretation. Such a situation causes unimaginable circumstances to ensure the output, without subjecting to plagiarism. Role? basis to develop unethical expectations/ grabbing-tendency/ propagation, in support? What commensurate effort has been made? reason for not being able to continue the stance?

Even after being entrusted for an abnormal amount of admeasuring time until today, in spite of the bias, if the deeds clearly poise at a disappointing trend, how justified is the suitability of the position – especially if the effectiveness is trivial – the fancy decisions only result in the

loss of effort, time, and money of the beneficiaries – the beneficiaries take an example from the icons – any realization that the projection of the trivial practices can discourage the work force and the aspirants (**what if they repeat?**) ; qualitative measures – **liquidity?** any understanding of how few personnel act under the shelter – sure about the consequences of continuing? – if the eternal decision does not consider further opportunity?

Tribute to the stake holders of the teaching, academic, industrial, and research fields, and the present employer/ past employers (point 7) for providing a leading, satisfactory, professional, and valued life that ensures optimal performance and communication at all the times ; Sufficiently conveyed the essentials

1 Educational/ Technical Qualifications:

S No	Level (UG / PG)	Year of passing	Specialization/ Institution
H S	S.S.C. (I – X standard)	04.86	Nirmala High School, Board of Secondary Education – Hyderabad, India <i>Certificate of National Merit, GoI</i>
	+2 education	03.88	The Hindu College, Board of Intermediate Education – Hyderabad, India
U N D E R G R A D U A T I O N ug.	B.Tech. (full time, regular); from JNTUCE (the main-campus college, Kukatpally); the college used to offer part time programmes	06.92 (month of the award of the degree certificate)	Engineering and Medical Common Entrance Test (EAMCET) Rank, in the undivided state in the first attempt : 417 (<i>place of study: a municipal town</i>) ; Admission Acceptance rate: 2.5%; Mechanical Engineering, <u>Jawaharlal Nehru Technological University College of Engineering (JNTUCE)</u> , JNTU, Hyderabad; (Project Guide: Dr. K. Eswar Prasad, JNTUCE, Er. R. Naidu, BDL)
		04.92	2 semesters : 25 + 27 <i>teaching weeks</i> Systems Management, National Institute of Information Technology (NIIT)-Regional Centre (RC) for the undivided state, Hyderabad, <i>Gained the working knowledge of programming and systems</i>
	Audit for the next sem. (discontinued to join UT abroad)	08.92	3 rd semester – Honours Diploma in Systems Management (HDSM); Systems Management, NIIT-RC, Hyderabad Result : Outstanding grade in the B.Tech. Project
	NCC	08.91	Hyderabad Result of the total UG training : Admission at an International University
M A S T E R	Audit of computer science – UG courses	12.92	GRE: Quantitative: 780/800; Verbal: 460/800; Analytical: 570/800; Year of Test: 1991 ; The University of Texas Result : Knowledge of relevance to Mechanical Engineering

R' S	MS in ME	05.1995, defence ; 08.1995, awarded	<p>Mechanical Engineering, The University of Texas, Thesis Supervisor: Dr. Athanasiou – The University of Texas; Dr. Agrawal – UTHSCSA ;</p> <p>Result: Publications in specialist proceedings, indexed research books, journals, etc. from 1995 that exceeded the educational qualification in the Home Country ; details in 5.3, 5.7, 5.8, 5.9, and 5.10 ;</p> <p><i>Exclusive learning</i> Advanced Mechanism Design <i>Exclusive Inspiration imparted from the commencement of the semester in August 1993, without even speaking a word</i> Professor Brinson ; <i>Attended numerous guest lectures</i> taught by the Industry and the Academic leaders in Bioengineering ;</p> <p><i>Executed course projects</i> from ASME papers ; <i>Exclusive teaching</i> (i) Fracture Mechanics, (ii) domain specific fundamental courses of UG ; <i>Attended Industrial Training Programs</i> on TQM ; <i>Experience</i> at nationally, commensurately professionally, and internationally reputed MNCs, research, and academic organizations ; Fast Track (2003) and BOYSCAST (2005) Fellow, DST, GoI – competed with the scientists of national research organizations including all the DRDO and National Laboratories as well as the faculty members from the institutions of national importance including IITs/ IISc. in the areas of science, technology, engineering, mathematics, and medicine (further details at 5.7, 5.8, 5.9, and 5.10) ;</p> <p><i>Sponsored Research Projects</i> from the National Funding Agencies (NFA); <i>Short Term Courses</i> - teaching and organization exclusivity that reflected in R11, R12, R33, ... R22 (details at 3.2, 4.0) ; <i>Exclusive Summer Training</i> (details at 3.2) ; <i>Commensurate Consultancy</i> (details at 5.10) ; <i>Proposal writing</i>, submitting, and scheduling ; <i>Industrial Initiatives</i></p>
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D O C T O R A L	Ph.D.	07.2007, defence ; 11.2008, awarded	Applied Mechanics/ Mechanical Engineering/ Bioengineering, Motilal Nehru National Institute of Technology (MN NIT – India); Jointly trained at The University of Texas for one year; Thesis Supervisor: Dr. Jain – MN NIT; Dr. Wang – UT ; Result: <i>Continuation of the mentioned exclusive results of the Master’s programme ; Teaching, educational research, feasibility study Initiation of ASTM/ ASME publications ; A Sponsored Research Project ; Curriculum and syllabus, R11, R12, and R13 ; Technological Education in a metropolitan city ; Enabling the education atmosphere ; Academic inputs for the institution autonomy ; Exclusive education and justifiable impartment ;</i>
	Post-Doctoral and Senior Post-Doctoral	01.2009- 03.2016	BOYSCAST Fellowship research Result: <i>Continuation of the mentioned exclusive results of the Master’s programme and Ph.D. programme ; Dissemination through ASTM and ASME ; Exclusive academic initiatives of the institution</i>

2 Teaching and Learning:

2.1 Teaching Interests:

Academic; Taught: UG- 26, PG - 9

Taught/ Worked (typical list):

- Engineering Mechanics – Statics (Text Book: EM by Timoshenko and Young)
- Engineering Mechanics – Dynamics (Text Book: EM by Timoshenko and Young)
- Kinematics of Machinery (Text Book: Theory of Machines by Bevan and Theory of Machines and Mechanisms by Shigley)
- Dynamics of Machinery (Text Book: Theory of Machines by Bevan and Theory of Machines and Mechanisms by Shigley)
- Mechanics of Solids - I (Text Book: Mechanics of Materials by Gere and Timoshenko)
- Mechanics of Solids – II (Text Book: Mechanics of Materials by Gere and Timoshenko)
- Finite Element Method (Text Book: Introduction to Finite Elements in Engineering by Chandrupatla and Belegundu)
- Structural Analysis (Text Book: Structural Analysis by Hibbeler)

- Fracture Mechanics (Text Book: Fracture Mechanics: Introduction and Applications by Anderson)
- Mechanism Design Laboratory (Lincages software, mechanism design for the biomedical applications, design of machines, etc.)
- Materials Engineering Laboratory
- CNC Laboratory (Development of module for the machining time anticipation of jobs when such a feature did not exist in commercial software, in 1992)
- Vehicle Dynamics Laboratory
- Craniofacial Mechanics Laboratory (change of file format of CT scan images when there existed no commercial software to allow to input an image to any of the FEM/ FEA software)
- Computer Aided Equipment and Plant Layouts Laboratory (using AutoCAD)
- CAD Laboratory (3D Modeling; FEM/ FEA; modeling of residual limb; analysis of bolted connections; dataflow diagrams, handling databases, etc.)

To Teach (Typical list; in addition to the aforesaid):

Theory of Elasticity and Plasticity, Theory of Plates and Shells, Theory of Elastic Stability, Advanced Mechanism Design, Machine Design, Advanced Machine Design, Advanced Mechanics of Solids, Vibrations, Biomechanics, Biology

2.2 Novel Teaching & Learning Techniques adopted:

Curricular reforms of R11 (AY 2011-2015) – ME and AE being a source for the following:

- Comprehensive learning resources
- Lab protocols/ management
- Bridge course
- Learning by Doing
- Exercises and experiments
- To convey the essence of several sponsored research projects to the enrolled UG
- To convey the essence of several industry projects to the enrolled UG
- State of the art facilities and intellectual resources
- Exclusive curricular courses
- Fifteen short term training programs, eleven other technical training programs, and numerous other personnel development programs
- A net revenue (after expenses) of INR 127,000.00 on short term training programs (STTPs) during 2002-12 through a ‘nominal fee’ charged to the participants in order to revive the ethics
- Assistance in addition to the regular teaching

References include:

- Detailed syllabus (curriculum) books for B.Tech. - R11 of ME and AE ; Chairman, Board of Studies – ME and AE up to May 2012 ; presently available on the institution-website)
- Minutes of the institutional meetings conducted during 2009-2011,
- Organization and teaching of STTPs and other programmes up to 2012
- Paruchuru, S.P., Syllabus, Curriculum, and Evaluation Concerns that Affect Quality in Technical Education, National Conference on Quality in Technical Education, VRSEC, Vijayawada, 18 November 2002, pp. 56-57
- Proposal submitted to CRISIL in 2001
- Proposal submitted to NIIT, New Delhi in 2001

Involvement in Curriculum Updating/ Design:

- Inputs to the engineering programs
- Effective revival of the curricula of UG programs starting from the first batch of the autonomous institution (VNRVJiet)
- Guidance to obtain CAD software from the authorities much before the commencement of Academic Year (AY) 2011-2012 with the existing resources, providing thorough training of the members of faculty, and implementing instruction of ‘engineering drawing and graphics courses, and the relevant courses’ of the institution using CAD, from 2011, in spite of severe conservatory pressures from the institution and the other regulatory authorities – one of the reasons to step down as HOD, due to the burden of enforcement surveillance, in spite of the exclusive teaching
- Relevance of CAD to the circuit branches of study
- Source for the evolution of significant teaching improvements in the workshop methodology from the commencement of AY 2017-2018 ; Demonstration of the teaching methodology of laboratory classes that involves the instruction required from the members of faculty, and the help of instructors, thus ensuring value addition to the enrolled UG by involving the exclusive efforts and significant contribution of both the roles of human resources mentioned above, by avoiding the overlap of responsibilities
- Resource and assistance in addition to the regular teaching; details at point 7.

3 Co-curricular and Extra-Curricular Activities:

3.1 Interests and Hobbies: *most of the contents apply to the specific domains*

Clear objective and the necessary approach (insufficiency might mislead; gratitude from the inner heart; tolerance)

Aggressiveness versus conservativeness

Need to retain the healthy economy, thus promoting a healthy attitude towards the necessary means ; mutual respect for the inheritance, history, and culture of each economy ; the need for retention ; critical and sufficient erudition ; Stability to ensure sufficiency and balance ; need to enable the healthy transition

Enduring growth, reasonable standards of living, and improvement of various practices ;
Need for the work and the education practices – dignity of labor ; persistence on
tolerance, integrity, and humanity

Sustainable assistance to the needy in order to meet the basic requirement : exercise,
awareness about constraints, etc.

Means to effectively reduce the burden and enhance the result, for durability of the
systems

Setting up processing units at the probable pollution arising places, at the designated
places where there is surveillance about the operations and disposals is a step forward to
protect the water resources ; holding a market value to the used materials for recycling
purposes is one of the ways of reducing the pollution?

To ensure an ethical, stable, healthy, and happy world in spite of obstacles, and suitably
transfer to the next generation by the legitimate methods (citizens with ‘discipline and
dedication’ and individuals with values make the institutions, businesses, and economies
run efficiently)

Means to produce effective human resources that prevent the employment in fraud sectors

Efficiency in organizations: false beliefs about wrong activities could lead to severe
implications ; conscience/ consciousness ; integrity versus intolerance/ inhumanity ;
learning versus inertness/ interference ; means of enduring)

To restrain from involuntary or inappropriate public expression and the effect on values ;
cautiousness about the obvious interpretation of the unmeant ; refinement in the other
viewpoints, causing no/ minimum disturbance to the progress

Awareness on cleanliness of public premises is a good initiative that happened in the recent
past. Posters may campaign the practice of bringing a hygienic waste-bag to put the
probable waste of eatables, safe products as permitted, etc. that accumulate during the
travel, hold the responsibility for the contents, and dispose after getting down the train in
order to meet the constraints. Such measures might help to stop the prevalence of diseases
in the nation of high population, at the affordable costs. Modification to the toilets in rail,
put forward as a part of this initiative can be further improved. The modification to other
public facilities by considering the humanitarian practices, improves the ambience and
work conditions. ‘Ways of acknowledging the initial accomplishment in a proper manner
being one of the moral responsibilities’ versus inhuman traits. The ancient and
contemporary Dignity of labour!

The methods to improve the income as well as the practices that interfere with the life,
might need reconsideration ; The practice of building ramp in the road margin has one of
the concerns that requires consideration - encroachment ; addressing the sensitive problem
could enable the effectiveness of the roads and the life

Improvement of a reliable, safe, and secure public transportation system is one of the measures for implementing an effective society in the countries of high population density? Such a public transportation system might run vehicles of relevant size (like SETWIN?) to suit the local needs and roads – time, effort – For example, smaller vehicles might run the shuttle service effectively on the roads of smaller width and help to effectively transport the public to the wider ‘roads and junctions’? Such an initiative reduces the pressure for human resources? Thus provides an opportunity in an endeavour to improve the national productivity **that meets the basic needs?**

The policies that (1) improve the output that meets **the basic needs** of the population, (2) improve the demand versus supply and the effectiveness of the human resources, (3) enable the capability to minimize the burden, and (4) implement visionary incentives – that help to perceive the legitimate livelihood with contentment, are some of the ways of minimizing the unrest

At present there exist two streams to study the engineering UG programmes (B.E/ B.Tech/ B.S) in the nation. One of those streams is to study 12 years (10+2) of high school education (apart from Kinder Garten – KG, i.e. apart from the education prior to I standard) and then enter into the I year of the UG programme. The other stream is to study 10 years of high school education (apart from KG), then to study a 3 year poly-technique diploma programme, and then enter into the II year of the UG programme mentioned above. Therefore, the enrolled UG from both the streams study common syllabus starting from the II year of the programme. Such a system might nullify the exclusive strengths of the enrolled UG of the second stream, mentioned above. The students belonging to the second stream mentioned above might possess skills that might help the manufacturing sector if they study **a UG programme that constitutes laboratory and theory courses in 2:1 proportion**. The enrolled UG belonging to the first stream may possess better skills that help the design, analysis, and development sectors. **Caution**

Consequences of wrong feedback systems and the use of such feedback, on the education can adversely affect the life. Using an influential role and maintaining silence to enable the prevalence of ignorance is one of the professional barriers for the teachers with student centric teaching as appropriate to the programme of study and proven academic record ; **Experienced people have succumbed to blunders in interpreting the feedback system** (just a question of ‘what is the purpose of teaching a course?’ will explain?)

Mechanisms to encourage reading ‘nationally, commensurately professionally, and internationally’ good textbook for each course (subject) of the engineering programs, and the feasible methods to implement ; awareness on the practice to routinely write the disconnected content during the lecture ; perceiving the distinction between the intricate situations and functioning accordingly ; practice of office hours ; avoidance of wrong use of the flexibility in the preparation of the syllabi/ curriculum and sensible methods to

implement ; a rational approach to prevent the technical lapses ; the applicable suggestions as per the cognition in order to ensure peace and integrity

The expectations might reflect the actuality, considering the awareness on the effective modern learning techniques especially when the specific educational field and the emerging employment sector are new. To note that no educational institution can assure 100% faculty of particular quality and no regulatory authority specifies that the senior-most faculty teach specific courses. Therefore, it is good to draw advantage, when it comes within the reach and it is important to perceive that certain guidelines are poised to bring the situation into the regulatory ambience and insisting on such things even in the case where each and every second of time is important only proves the susceptibility to misleads ; eg. a fair opportunity to follow ‘nationally, suitably professionally, and internationally’ good text book and gain the professional exclusivity ; until such a practice becomes common, is it good if the faculty members above the designation of Assistant Professor, teach only the programme specific prerequisite courses of UG and suitably commensurate non-elective UG courses, in terms of quality, quantity, and communication up to the ‘Vision and Mission’? The skill capability gained through teaching the regular course work is supposed to aim at the national, suitably professional, and international quality that is commensurate with the programme of study. Following the academic inputs, develops the skill to ‘follow and teach’ the contents of ‘nationally, suitably professionally, and internationally’ good text book and the courage to ‘fairly encourage and guide’ to follow such a textbook. The institutions do not follow a general guideline of only rendering to the practices that may be understood by the ‘enrolled UG’. Does the nature create an infant only up to the knowledge that can be perceived by the infant? The authorities need to have a firm plan and implementation to ensure the ethical effectiveness. Establishment strategy and the allocation may further address the unethical practices. If the supervisory personnel do not have the awareness to interpret the dissemination, the same opinion must reflect. If the sources that have conflict of interest form a kotary to fabricate the grants, is it not the time to give up the unethical short-cuts? If it is not too late, a sincere mechanism of allocation by considering the justifiable approach will help? If there lacks an understanding to interpret the activities being put forward, after being literally absent from 2011 for an abnormal amount of time after the induction of autonomous practices, considering that the education did not give the exposure, what would be a better option than to provide the awareness, even though there is no receptive stance? Any understanding of ‘what information is essential’ to interpret the genuine professional activities in the wake of the awareness at the point of time? If one can get away with unethical short-cuts, is it possible to restrict the prevalence? Avoiding the wrong use of flexibility in the preparation of syllabus/ curriculum, might be one of the ways of improving the situation, especially if an institution wants to train the enrolled UG at the national and the commensurately professional quality in accordance with the vision and mission. Technical knowledge that has been emphasized at the beginning of the introduction of the programme of study will primarily create the overlap of the responsibilities. One of the better options is to gain the knowledge that is

commensurate with a pioneering institution. Due to age or learnt behavior, if the mentioned option is not viable, the simple acceptance so that the unethically oriented motive (**details in summary**) would not repeat intentionally/ unintentionally, could improve the situation. Even after experiencing such a behavior, for an abnormal duration, with no change in the attitude, and reiteration of the attitude, time to time, does the profession withstand? If a technical faculty member follows the ‘nationally, suitably professionally, and internationally’ good text book and follows the ways of not encouraging the enrolled UG to follow such text book, such a practice only remains in the syllabus book. If the syllabus narration is made and implemented in a manner where the students build up the pre-requisites from the first semester, is there any possibility of the students not being able to follow? If sincere efforts are being put forward to develop the practices of following the ‘nationally, commensurately professionally, and internationally’ good textbook, the efforts of various resources might pose a challenge to such an initiative. Just like the use of CAD became a continuously common instruction practice for ‘engineering drawing and graphics courses, and the relevant courses’ in the nation, starting from 2011, why cannot the continuous practice of effectively recommending ‘nationally, commensurately professionally, and internationally’ good textbook become so common? Unless such a system is implemented, the PG programmes cannot stand up to the deserving standards of the nation ; until such a practice becomes common, is it good if the faculty members above the designation of Assistant Professor, teach only the programme specific prerequisite courses of UG and suitably commensurate non-elective UG courses, in terms of quality, quantity, and communication up to the ‘*Vision and Mission*’? Few institutions have already started and the others might fall behind ; need verification? may choose to degrade ; following ‘nationally, commensurately professionally, and internationally’ good text book is not sufficient ; essential to effectively recommend and encourage the enrolled UG within the limits of influence ; let’s face the negative campaigning by legitimate methods. Perceiving the exclusive strength is essential ‘to gain the confidence and give up the direct/indirect unethical propagation’ and target the continuous improvement. If the practices followed until now have not been sincerely utilized to understand the essentials, such practices may be reviewed with purity of thought and capable reasoning? How reasonable is it to evasively ignore each and every practice that can be implemented? What is essential to ensure the retention of every genuine human resource, the genuineness being unaltered? Implementing suitable initiative by ethical means in the context of the teaching profession might be possible by concatenating and uploading the certificates of high school education up to the 10th standard, +2 education, ITI/ poly technique details if not the 10th standard/ +2 education, UG education *regular/ part-time/ three-year/ four-year* programme, study-institution, acceptance rate, along with the affiliating university, similar details of post graduate education, Ph.D. programme, etc. along with the profile that clearly outlines the above details, C.V./ resume, and the *clear* proofs of the accumulated in-service credentials in *an accessible form* with the proper surveillance, and clear instructions could minimize the consequences and provide awareness? By glancing at the mentioned details, even a

guided-layman can figure out the resourcefulness, with the basic knowledge. Awareness is the primary source to revive. A massive evaluation phenomenon needs reconsideration? Imparting knowledge is important and the capabilities are more important and therefore cannot afford to render to the incompatible practices? The details are conclusive.

Prevailing concern: The members of faculty of several institutions get paid proportionately with the members of faculty of the Institutes of National Importance and why are the average achievements of members of faculty of the former, not even 10% of the average achievements of the members of faculty of the later, in terms of quality, quality, communication, and dedication? The education field looks so simple as well as complex such that for every thought provoking question, there is an easy answer that appears to look right – misinterpreting the ethics of training, undergone? – does the training not answer the essentiality of the initial training – if so, not cognizing even the basic ethics, made a tangible attempt to nullify the purpose of R11, the first curriculum and the and the subsequent revisions (being abnormally absent during the improvement process from 08.2011, due to trivial reasons) in spite of not realizing the ‘incompatible technical (mechanical) UG qualification for the administration purpose’? – What if a legitimate objection at the regulatory level arises, about the incompatibility of the level of inputs, understanding the limitation of the administration? – finding basis to blame the quality of enrollment of the UG programme that is being offered (previous to the previous question ; also, pages 5 and 7)? One of the mechanisms to proactively and sufficiently improve, is to monitor the syllabus narration (**caution!**), follow ‘nationally, commensurately professionally, and internationally’ good text book for each and every teaching-subject, announce the same in the class, fairly at the beginning of the respective semester and be supportive to the aspiringly enrolled UG in overcoming the inherent difficulty, get advice and try the ‘faculty initiatives’ suggested by the regulatory authority even if it consumes good amount of time initially, and work sufficiently beyond the normal work-hours from the beginning of the service or until meeting the sufficiency. Such practices may be feasibly implemented by every individual and enable to think beyond the incompatible behavior. Such practices along with the attitude might transform the nation into a sustainably resourceful nation

In an education system where most of the practices still need the refinement, it is impractical to have a fair opinion of the value impartment through the curricular activity. The following discussion might help? Identification of 4 – 6 programme specific prerequisite courses in every UG programme of ‘technology and engineering’ specialization is essential, to gain the prerequisite knowledge that in turn helps to understand the further courses and subsequently helps to fare well in the early days of the career. The concerned people do not usually get an opportunity to perceive on time. In other words, if a junior or senior of an UG program or early professionals perceive for the first time, it is life consuming because, the spent time can never be made available. It is not sufficient to merely pass such courses and every enrolled UG may aim at attaining

maximum knowledge by sincere efforts. One of the reasons that the enrolled UG do not have a chance to perceive on time is that the technical education system did not yet impose the sufficient prerequisite system that takes care of such a problem. The international universities of the developed countries follow individual course specific prerequisites and therefore such a problem does not arise. However, the medical colleges of the nation follow a prerequisite system that is feasible in the technical education as well. The medical colleges give a clear instruction to the enrolled UG, at the time of admission, that passing few essential courses like anatomy (similar to the **programme specific prerequisite courses in technology and engineering**) is a prerequisite to get promoted to the next semester. Therefore the medical students observe the importance of such courses at the time of admission and spend good amount of time to excel in their careers of choice. It is good to note from the effective implementation point of view that the concerned resources do not have the possibility to get misled, because the essentiality of prerequisite courses appears in writing. It is good to note that few aware-teachers instruct the enrolled UG of trustworthy conduct, so that they gain a fair chance to excel in the programme of study as well as the career. It is also good to note that only the senior members of faculty teach such courses in the medical colleges. Also, to note that such senior faculty members in good medical colleges are not undermined and defamed to the possible extent, due to the bias of the incompatible occupants of administrative positions. Until such a system is customized to the technical education, is it good if the institutions follow their strategies for the effective implementation? **Just like the use of CAD became a continuously common instruction practice for ‘engineering drawing and graphics courses, and the relevant courses’ in the nation, starting from 2011, why cannot the practice of effectively intimating the importance of the programme specific prerequisite courses be inculcated, apart from effectively recommending ‘nationally, suitably professionally, and internationally’ good textbook for the curricular courses? Until such a practice becomes widely common, is it good if the faculty members above the designation of Assistant Professor, teach only the programme specific prerequisite courses of UG and suitably commensurate non-elective UG courses, in terms of quality, quantity, and communication, up to the ‘Vision and Mission’?** The problem relevant to the mentioned situation is so severe that the employment organizations are forced to test for the pre-requisites to the ‘programme specific prerequisite courses’. Testing the job aspirants merely by the mentioned procedure further confuses the enrolled UG in identifying the programme specific prerequisite courses. **For example, such prerequisite courses in the mechanical engineering specialization** are Engineering Mechanics – Statics and Dynamics, Mechanics of Solids (or Strength of Materials/ Mechanics of Materials), Metallurgy, Fluid Mechanics, Thermodynamics, Kinematics of Machinery, and Production Technology (or Production Engineering/ Manufacturing Technology/ Manufacturing Engineering). An example for Civil Engineering: Engineering Mechanics, Mechanics of Solids (Strength of Materials/ Mechanics of Materials), Fluid Mechanics, Structural Analysis, Building Drawing, Construction Materials, etc. An example of software and connecting branches

of study: Introduction to Programming (like C), Data Structures, Advanced Data Structures (data Structures – II), Discrete Mathematics, Computer Organization, Computer Architecture, and Operating Systems, etc. The change of course/ subject names is possible ; Creating a nationally and internationally good text book involves ; Fluency in such courses puts the graduate at the helm of the engineering field. The lists given here are the essential courses in which good efforts and knowledge are necessary to gain the programme specific knowledge, through the curricular courses, in the named specializations. In other words, this list cannot be interpreted that the other courses are insignificant ; sufficient inputs as per the cognition

There is a requirement to implement the practical mechanisms to improve the competencies of the engineering programmes, at par with the national, commensurately professional, and international norms, for the benefit of the nation, profession and industrialization. The alternatives to effectively implement such mechanisms, might help? Can the exclusivity gained through effectively encouraging the enrolled UG to follow ‘nationally, commensurately professionally, and internationally’ good text book provide the reliable solution? Is it possible that such a practice might develop in to a widely accepted practice similar to the continuous practice of instructing the ‘engineering drawing and graphics courses and the relevant courses’ through CAD software, from 2011? Until such a practice becomes common, is it good if the faculty members above the designation of Assistant Professor, teach only the programme specific prerequisite courses of UG and commensurate non-elective UG courses, in terms of quality, quantity, and communication up to the ‘Vision and Mission’? Thus, is it reasonable to allow the responsibility of gaining nationally, commensurately professionally, and internationally evident exclusivity on behalf of the institution? Caution: The sincerity and the dedication in imparting the inputs may continue. This alternative is much softer than the less-known ‘cultural revolution’ (closing the educational institutions and asking to work in the farms/ industry/ government/ military) that prevailed at another place. Modification of the minimum duration of academic programmes and the minimum requirement of academic credits, for the award of academic degrees might help to accommodate the changes including the placement of emphasis on attendance. For example, universities of few developed nations successfully run the academic programmes in a semester system, by limiting the minimum requirement of academic credits for the award of UG programmes, to one hundred and forty and this number is about 30% less than the comparative credit requirements of the domestic universities. Unless there is sufficient policy backup from the authorities, it is very difficult to bring the resourceful change – due to the fear of the students facing difficulty – a genuine attempt will confidently defend the reform – if there is sufficient number of people who can vouch, such a reform further paves way – lack of the willingness will prolong the process – fancy attempts to attain sponsored research projects by TRUCE, or by feigning attempts, by convincing by the ridiculous logic will pose several glitches to such a reform ; PLEASE DO NOT BLAME ; HAVE BEEN INTIMATING ; Patents are supposed to reduce the financial burden on the institution – why the contrary – diverting the institutional revenue by the unethical advances? repercussion? until the process is on the right track, is it good if the faculty members above the designation

of Assistant Professor, teach only the programme specific prerequisite courses of UG and commensurate non-elective UG courses, in terms of quality, quantity, and communication up to the 'Vision and Mission'? The society gives a fair opportunity to rehabilitate those who had objectionable habits that are not suitable to the academic field, with the intention that the individual has been transformed ; However, if the transformation only happened from a habit to another habit – The rationale for including the communication in the personal (personnel) file, further helped?

Even after being entrusted continuously for an abnormal amount of time, until now, in spite of the bias, is it not unfair to blame the immaculate achievers especially when the resources being enjoyed are the fortune of the unmentioned achievers – just with the assumption that there is little scope for perceiving? – If such obvious traits are prevalent, the available metrics are insufficient?

Basic needs ■■■? – sufficiency? – reliable grout output? answerable legitimate occupancy? cost? affordability? insufficient comparisons? taming the attitude? opportunity? – safety? Is it not unfair to pretend, being in a position, when the resources of objectionable traits stand in the way of the duties thus arising legitimate migration concerns, for an abnormal amount of time, especially if the position is the result of the fortune created by the unmentioned achievers, unmentioned in the context of the duties? Is it not an expense of time? To not distinguish the lead versus mislead? Stance? sure about the consequences of continuing? If the sources understand that it is just about retaining the position?

If the priority is to appoint the individuals, so that silence can be observed even when the blunders are not brought to notice, how justified is it to make an attempt to utilize the situation when it appeared harmless? How justified is it to professionally harm, when a genuine attempt was made to identify the lapses, in spite of the situation, which could have been avoided if there is willingness? How justified is it to try to use the leads to cover up the blunders? can someone getaway with the self-survival attempts, if the baseless and ignorant apprehension that prevailed long time ago primarily due to lack of information, is being utilized, when the prevailing people have no acquaintance? Consequences, if the concerned details are interpreted the right way? (1) without cognizing, (2) without even making use of the abnormally continuous extent of time, (3) only interpreting each and every lead for the self-survival, and (4) misusing the position to stall the progress, by maintaining silence to illegitimacy - any possibility of understanding the mentioned revelations? eternal decision!

It is not possible to bring strict regulation in all the required aspects due to the informal/ logical restraint of maximum reforms within the tenure, considering the conventional mindset of the incumbents, the natural public restraint to a social change, and the obligations that might come in the way, even in the case of convincing and rationally good law or act at the time. It is a constant phenomenon to meticulously scrutinize and tolerate the improvements at the time, for the sustenance of the society and the young nation that was reborn amidst of several opposing forces only few decades ago. Consequences of continuing?

At any point of time during the high school education, no student may be compelled to study more than one curricular subject (course) on languages irrespective of the medium of

instruction in order to establish an effective and regionally/ nationally/ internationally competent curriculum – to understand that even the regionally good industry has to compete at the international level ; However, there may be a choice of opting for one spoken domestic-language course as a non-curricular (like co-curricular or extra-curricular) course. The English translation of technical words/ terms of high school sciences and mathematics subjects (courses) may be introduced in the text books, irrespective of the medium of instruction.

It is imperative to effectively and peacefully deal with the neighbors and the reliable competency come in to utmost importance. Health, fitness, less dependence on the medicines, and character are some of the possible features that influence the efficiency. One year of military training for at least the aspiring graduate men is essential to develop a competent defensive restraint and also to develop the physique and health. Eg.: selective prospering nations have been following such practice

Developing the Industrial Training Institutions (ITIs) and other institutions that provide effective training in the manufacturing sectors at par with the modern norms and the growing population might help? The demand, domestic pay potential, and incentives for such disciplines may be effectively intimated?

Prerequisites to enable? Repercussions? Awareness?



*The Academic Council of
NIIT*

having duly examined

P SATYA PRASAD

*during and after one year of study
on the specified curriculum
and having found the candidate's performance to be*
GOOD

Legend Overleaf

*have pleasure in recognising this attainment
with the award of this*

Diploma

in

SYSTEMS MANAGEMENT

Given under our hand and seal on

This, the 18th *day of* January 2019

at New Delhi



*Chairman of
the Academic
Council*

*Vice-Chairman
of the Academic
Council*
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*Registrar & Member
of the Academic
Council*

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY



Paruchuru Satya Prasad

of P. S. R. Krishnaiah

having fulfilled the academic requirements and passed the examination
held during *June/July* 1992 in *First class*
has this day been admitted by the Board of Management to the Degree of

Bachelor of Technology

(Mechanical Engineering)

Given under the seal of the University

Hyderabad
Date : 20 JAN 1993

W. S. J. S. J.
DIRECTOR OF EVALUATION

A. M. M.
REGISTRAR

Date: 9-16-06

TO: Shirley Domyancic
Mechanical Engineering

FROM: Michael Mascilli
Human Resources

RE: Prior State Service

Your employee, Satya Paruchuru (UT EID SPP256) had previous employment with the State of Texas or The University of Texas System.

Human Resources received confirmation of State Service from the UT Health Science Center at San Antonio.

Dates of employment were 9/14/93-5/31/95 for a total of 20 months and 17 days of state service.

These months of service have been posted to the employee's state service record and will affect the vacation accruals of your employee. Your employee has been made aware of this information. If you should have any questions or concerns, please feel free to contact me. Thank You.

Michael Mascilli
Human Resources
Ext 7210
Michael.Mascilli@utsa.edu

QUESTIONNAIRE:

Did you find the UMSA brochure and examples informative?

Yes _____ No

Do you think that the UMSA system's capabilities would be useful in your research and academic training program?

Yes No _____

Given the RAW MATERIAL INGREDIENTS AS INPUT, AND SPECIFIED THE DESIRED GRAIN REFINEMENT AND MICROSTRUCTURE, WILL USMA CAST IT AND GIVE THE FEED BACK OF GRAIN STRUCTURE. ALSO, WILL USMA SPECIFY THE CONDITIONS REQUIRED TO ACHIEVE SUCH GRAIN STRUCTURE IN ACTUAL MANUFACTURING PROCESS

If yes, would you be interested in obtaining additional information regarding

Buying an UMSA system

Leasing an UMSA system _____

Arranging for Contract Services _____

DEVELOPMENT OF A NEW TECHNIQUE TO DETERMINE THE
CRITICAL STRAIN ENERGY RELEASE RATE OF
BONE AND OTHER BIOLOGICAL MATERIALS

APPROVED:

[Redacted Signature]

Supervising Professor

[Redacted Signature]

[Redacted Signature]

[Redacted Signature]

RECOMMENDED FOR ACCEPTANCE:

[Redacted Signature]

Graduate Advisor

ACCEPTED:

[Redacted Signature]

Dean

The University of Texas
at San Antonio

has conferred upon

Satya N. Paruchuru

the degree of

Master of Science

Mechanical Engineering

with all the rights and privileges therewith appertaining.

In Witness Whereof, this diploma is granted by the

Board of Regents upon recommendation of the Faculty.

Presented this eighth day of August, nineteen hundred and ninety-five.

[Signature]
Dean



[Signature]
Chancellor

[Signature]
President

[Signature]
Chairman, Board of Regents



THE TATA IRON AND STEEL COMPANY LIMITED

JAMSHEDPUR-831001 INDIA

FAX. NO. (0657) 431140/431160 TELEGRAM : IRONCO, JAMSHEDPUR

Regd. with A/D

AO/HRS/ 5442 /98

Dear Mr Paruchuru,

29 APR 1998

This is with reference to your application for employment, and the subsequent interview that you had with us.

We are pleased to inform you that you have been found suitable and we would, therefore, like you to join Tata Steel as Asst. Manager (level 03) in our Growth Shop, on the terms and conditions that are enunciated in the annexure.

We would be extremely glad if you accept our offer, and make preparations to join us at Jamshedpur. If there are any clarifications that you require from us, please do not hesitate to get in touch with Dr J Singh, our Dy. General Manager (HRD) over phone 0657-431071/845-557, or Mr N S R Murty, our Divisional Manager (HRS) over phone 0657-425178/845-318, on any working day. They would be happy to answer any of your queries.

If you agree with the terms and conditions spelt out in the annexure, we would be happy to have you return a signed copy of the annexure along with a copy of this letter signed by you, in token of your formal acceptance of our offer. Please also let us know when you plan to join us.

You will be re-imbursed AC Chair Car/First Class/AC Second Class Sleeper Rail Fare, by the shortest route to enable you to join. Incidentally, the Railway station at Jamshedpur is called Tatanagar. We are not connected to other cities by air, as yet.

We look forward to having you join the flagship Company of the House of Tata, and eagerly await your response.

Yours sincerely,
The Tata Iron & Steel Co. Ltd.,


(N P Sinha)
Vice-President (E&RM)

Encl: Annexure

Mr. Satya Prasad Paruchuru,
S/o Mr. P. Sree Rama Krishniah,
Swatantrapuram (P.O.),
Koduru Mandal, Krishna District,
Andhra Pradesh - 521 328.

REGD. OFFICE : BOMBAY HOUSE, 24 HOMI MODY STREET, MUMBAI 400 001



UNIVERSIDAD DE PUERTO RICO, RECINTO DE CIENCIAS MÉDICAS
UNIVERSITY OF PUERTO RICO, MEDICAL SCIENCES CAMPUS



DEPARTAMENTO DE ANATOMÍA
DEPARTMENT OF ANATOMY

[Redacted address block]

23 May 2001

Dear Dr. Narasaiah:

I have been communicating with Satya Prasad Paruchuru, as I am in the process of making an application to the American Institute of Indian Studies (AIIS) program. I would be very grateful if you would kindly agree to [redacted] acting as my Host Institution during my visit to India, which is being planned.

My proposal is based upon CAT scans of Indian patients with craniofacial abnormalities. Satya and I are in the process of identifying a CAT scan facility in an Indian institution so that I can collate CAT scans of patients during my visit to India for data collection. Satya and I have a common interest in finite element analysis, and this analytical technique will be deployed once we have collected sufficient 3D CAT scan data from India.

In the event that [redacted] kindly agrees to act as my Host Institution, [redacted] will not have any financial obligations in this regard during my visit to India. As well, I will take care of the AIIS affiliation process and will keep you updated on its progress. Finally, if any funds remain after successful completion of the project, I can consider arranging a small donation to the Engineering College in the form of some equipment.

Please find a list of selected References enclosed. I look forward to hearing from you.

With very best wishes,
Sincerely,

GD

Dr GD Singh BDS PhD DSc
Associate Professor
Office A-570
School of Medicine
University of Puerto Rico
PO Box 365067
San Juan, PR 00936-5067
USA
Tel: +1 787 758 2525 x 1503
Fax: +1 787 767 0788
E-mail: gdsingh@rcm.upr.edu

*Dr Satya Paruchuru
1-6-01*

BIO-MEDICAL MATERIALS AND ENGINEERING
An International Journal

Editor-in-Chief
Takeo Yokobori
School of Science & Engineering
Teikyo University
Toyosatodai 1-1
Utsunomiya 320-8551
JAPAN

20 August 2003

Dr. Satya Prasad Paruchuru,



India

Dear Dr. Satya Prasad Paruchuru

As is shown in "Reviewers' Comments" sent to you July 2003, the length of your manuscript is recommended to be reduced, as Short Note, to two or three pages in published style. Even if it will be published in full paper, Introduction is too lengthy, and appears unusual. It should be much more reduced at least to two or three typing sheets. Another details which should be readjusted are some unification and the correspondence of the numbering in the text and references, and the use of the words of FEM and FEA.

After these points are revised, then your manuscript will be published in the nearest issue as possible.

Thanking you again for your interest in BMME, and apologizing so delayed referecing, I remain.

With best wishes,

Sincerely yours,

A handwritten signature in black ink, appearing to read "Takeo Yokobori".

Takeo Yokobori

IOS Press Nieuwe Hemweg 6B 1013 BG Amsterdam, The Netherlands



Jagdish Chander
Scientist F
SERC Division
Email: jchander@alpha.nic

भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
विज्ञान और प्रौद्योगिकी विभाग
टेक्नोलॉजी भवन, नया महरौली मार्ग, नई दिल्ली-110 016
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
Department of Science and Technology
Technology Bhavan, New Mehrauli Road, New Delhi-110 016

DO No.
SR/FT/L-83/2003

Date.....
January 21, 2004

Subject: Your proposal submitted under SERC Fast Track Proposals for Young Scientists scheme, entitled "Standardization Aspects of Compact Sandwich Specimen for Fracture Toughness Testing of Bone".

Dear Paruchuru Dr. Satya Prasad,

I am happy to inform you that your proposal referred above has been considered and recommended for support subject to your fulfilling the eligibility conditions.

You are now requested to kindly send the following documents/ information, at your earliest, in one lot.

- Institutional certificate from the Head of the Institute or competent authority of the Institute where the project will be implemented (as per the attached format)
- List of facilities extended/made available by the Institute to you
- List of equipment/s with copy of the latest quotation/s including insurance, freight, if any etc. along with technical justification of its requirement in the methodology along with a Summary Sheet indicating equipment & accessories, quantity and cost
- List of consumable with cost, preferably in a table format, indicating name of costly consumables with tentative quantity and cost
- In case the project involves cost on account of fabrication of equipment or analytical charges, details of fabrication costs/ analytical charges may be provided along with quotations and/ or necessary fabrication diagrams etc.
- A certificate mentioning that any visit abroad for a period more than eight weeks would be undertaken with prior permission of DST well in advance.
- Copy of your PhD award
- In case you intend to draw fellowship from the project grant, then a certificate mentioning that you *are not drawing/ will not draw* any emoluments/ fellowship from any Institution/ Society/ S&T agency or organization while drawing this fellowship during the project tenure
- Attested copy of certificate for claiming of age relaxation
- Designation of the officer (Registrar/Finance officer/Accounts Officer/Controller etc.) in whose favour the demand draft should be issued, in case the grant is sanctioned.

Kindly send the above information preferably within one month of the receipt of this letter in order to enable us to process the project for release of grant. In case we do not receive the above information within three months of the issue of this letter it would be presumed that you are not interested in this project and the offer would automatically stand withdrawn. No correspondence will be entertained subsequently.

With kind regards and best wishes,

Yours sincerely,

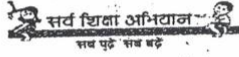

(Jagdish Chander)

Dr. Satya Prasad Paruchuru
Deptt. of Mechanical Engg.,
V.R.Siddharth Engg. College,
Vijayawada-520 007 (Andhra Pradesh)



भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
विज्ञान और प्रौद्योगिकी विभाग
टेक्नोलॉजी भवन, महरौली मार्ग
नई दिल्ली 110016

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD
NEW DELHI 110016



सर्व शिक्षा अभियान
सब पढ़ें सब बढ़ें

THE GREAT ARC
200 YEARS
CELEBRATING THE QUEST

Dr. P.K. MALHOTRA
SCIENTIST F
Email: idpkm@nic.in
Tele:26520714

D.O.No

SR/BY/E-38/05

Date:

15.12.2005

Dear Shri Paruchuru;

Subject: BOYSCAST Fellowship 2005-2006.

We are pleased to inform you that the Department of Science & Technology has approved in principle your participation under its Better Opportunities for Young Scientists in Chosen Areas of Science & Technology (BOYSCAST) programme for conducting advanced research/undergoing specialized training in the area of Bio-Mechanics for a duration of twelve months at the University of Texas at San Antonio, Texas, USA.

This Department would provide funds for your international travel (by Air India/Indian Airlines), fellowship amount, contingency amount and funds for travel within the host country as permissible under this programme (please see the enclosed guidelines). The funds (approximately 90% of the expected expenditure) will be released in the name of your organization and the balance will be settled after completion of your research/training and return to India and on receipt of the detailed report, statement of expenditure and other required documents as per DST formats duly forwarded by the Head of your institute. The fellowship should be availed within the current financial year i.e. 2005-2006 (the research/training has to be commenced before 31st March, 2006).

You are requested to intimate to the undersigned your acceptance of the above offer so as to reach us within one month of the date of this letter. Along with your acceptance, please send/intimate us the following:

- (i). A certificate from Air India/Indian Airlines indicating cost of return air fare by economy/excursion class by shortest route from the place of working in India to the overseas host institute;
- (ii). Tentative schedule of your visit which is acceptable to your host institute;
- (iii). Designation of the officer (Registrar/Finance Officer/Accounts Officer etc.) in whose favour, the demand draft is to be issued as per your organization norms;
- (iv). A copy of the certificate indicating your date of birth, attested by a Gazetted Officer;

Contd...P.2/--

TELEGRAM SCIENCTECH TEL 26962819, 26567373-2134-2122 (EPBAX) 26569908, 26864570-3847-2418

Serial No.: 2008-5-002

Enrolment No: 2005RAM02

मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान
इलाहाबाद

विद्या परिषद की अनुशंसा पर

परुचूरु सत्य प्रसाद

को

डाक्टर ऑफ़ फिलॉसफ़ी

की संस्थान मुद्रा अंकित यह उपाधि समस्त सम्मानों, विशेषाधिकारों व दायित्यों के साथ

आज, २६ नवम्बर २००८, को इलाहाबाद (भारत) में प्रदान करता है।

**Motilal Nehru National Institute of Technology
Allahabad**

on the recommendation of the Senate, hereby confers on


PARUCHURU SATYA PRASAD


the Degree of

Doctor of Philosophy

with all Honours, Privileges and Obligations there unto pertaining
on this day the 29th November 2008, under Seal of the Institute at Allahabad (INDIA).




अध्यक्ष, प्रशासकीय परिषद
Chairman, Board of Governors


अध्यक्ष, विद्या परिषद
Chairman, Senate

H.W. Pooner
AS
28/6/12

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
4th Floor, East Tower, N.B.C.C. Place, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi-110003

Ref. No.: 8023/RID/RPS-74/Pvt (II Policy)/2011-12

June,05,2012

The Drawing and Disbursing Officer
All India Council for Technical Education
7th Floor, Chandralok Building,
Connaught Place, New Delhi – 110 001.

Hul
Rec
Me
Character
and Biometrics

Sub: Release of Grants under Research Promotion Scheme (RPS) Scheme during the financial year 2012-13.

Sir,

This is to convey the sanction of the Council for payment of Rs. 17,00,000/- (Rupees Seventeen Lakh Only) during 2011-12 under the Research Promotion Scheme (RPS) as Grant-in-aid for meeting the expenditure for implementing the Scheme as per details given below:

- | | | | |
|----|--|---|--|
| 1. | Name of the Beneficiary Institution (University / College / Institution) | : | VNR Vignana Jyothi Institute of Engineering & Technology
Vignana Jyothi Nagar, Bachupally, Nizam Pet (S.O.)
Hyderabad-500090
Andhra Pradesh |
| 2. | Principal Investigator's Name & Deptt. | : | <u>Dr. Satya Prasad Paruchuru</u>
Mechanical Engg. |
| 3. | Grant-in-aid Sanctioned | : | Rs. 17,00,000/- |
| 4. | Amount to be released | : | Rs. 17,00,000/- |
| 5. | Approved Duration | : | 2 Years (Two Years) |

- (1) The individual availing this fellowship would be called a BOYSCAST Fellow.
- (2) After the approval of the fellowship, the BOYSCAST Fellow should not deviate from:
 - (a) Approved area of research/training
 - (b) Identified Institute abroad
 - (c) Duration of fellowship
- (3) BOYSCAST Fellow should will a bond to the parent institute that he/she would serve the parent institute/anywhere in India for a period of at least three years after pursuing research in the area of specialization abroad.
- (4) Young scientists/technologists who have earlier availed of the BOYSCAST fellowship will not be eligible for consideration again under the BOYSCAST programme. In case of special requirements where it becomes important in the context of a well identified programme, which is relevant to the national programme, this condition may be waived.
- (5) If the fellow does not return to India or gets job opportunity overseas on completion of the duration, fellow will be required to reimburse the whole of the expenditure incurred during the fellowship period in one lumpsum within one month of the completion of the term of the Fellowship. Parent institute will recover the whole of the expenditure from the fellow and remit it to DST within the stipulated period.
- (6) If the fellow on return to parent institution, resigns from the job and goes abroad or accepts another job unconnected with the chosen area, then it would be construed as having broken the bond and he/she would be required to pay forthwith a sum of money pro-rated to the uncompleted period under the bond.
- (7) The fellow will be entitled to the fellowship amount of US \$ 2400 (or equivalent in other foreign currency) per month up to six months and US \$ 2000 (or equivalent in other foreign currency) per month from the 7th month onwards with maximum duration of fellowship being 12 months. The institution to which the candidate belongs would be responsible for necessary foreign exchange arrangements.

FIRST COPY/INDIVIDUAL COPY

Date: 02nd January 2009

JOINING REPORT

From: Name : SATYA PRASAD PARUCHURU
Designation : Professor
Department : Mechanical Engineering
Thro': HOD/ : Mechanical Engineering

To
The Principal, VNR Vignana
Jyothi Institute of Engg. & Tech,
Bachupally, Hyderabad-72

Respected Sir,

Ref: Office Order No. VNR VJIET/ESTT/2009/ dt,

In compliance with the orders cited, I report my self for duty as Professor
in the Department of Mechanical Engineering
this forenoon/afternoon, the 02nd January 2009

FIRST COPY/INDIVIDUAL COPY

Date: 02/05/2009

JOINING REPORT

From: Name : PARUCHURU SATYA PRASAD
Designation : PROFESSOR
Department : DEPARTMENT OF MECHANICAL ENGINEERING
Thro': HOD/ : MECHANICAL ENGG. DEPT.

To
The Principal, VNR Vignana
Jyothi Institute of Engg. & Tech,
Bachupally, Hyderabad-90

Respected Sir,

Ref: Office Order No. VNR VJIET/ESTT/2009/332 dt, 27/04/2009

In compliance with the orders cited, I report my self for duty as PROFESSOR
in the Department of MECHANICAL ENGINEERING
this forenoon/afternoon, the 02nd May, 2009

3.2 CCA/ ECA Organized: Without financial burden on the employment institution

Result: (1) Started the **continuous** practice of instructing ‘engineering drawing and graphics courses, and the relevant courses’ for all branches of study from 2011 – till date, **using CAD**; to the knowledge, it is the first time in the nation, and later, it became the common practice in the nation (2) Ways to improve employability through curricular improvements (3) Faculty, started following and recommending nationally and professionally good textbooks (4) Faculty and enrolled UG started to get the complement-help from several NPTEL courses that were added from 2014

Purpose of Engineering Drawing and Graphics using CAD : (1) **Basic career essential and pre-requisite** for understanding CAD software, as appropriate to the core engineering specializations of UG and (2) Spending time with CAD software in the first year imbibes the *practical knowledge* of various software concepts that are relevant for the other engineering specializations of UG

Reminder: The effective method of encouragement to sufficiently follow ‘**nationally and professionally**’ good text book still needs further implementation

- Quality Placement Essentials for Engineers; AY 2020 – continues the essence; coordinator and instructor, MED
- Solid Mechanics and Practical Problems in Mechanics of Solids; AY 2014-2015; coordinator and instructor; MED
- Analysis of Engineering Problems; AY 2014 – continues the essence; coordinator and instructor; MED
- Utilities in Creo; December 18 2013; coordinator and instructor; venue: AED
- Construction used in Various Parts of the World and Relevance to the Topics of Engineering Analysis; AY 2013 – Continues the essence ; coordinator and instructor, MED
- CAD Review; 12 hrs; August 07-23 2013 ; coordinator and instructor, MED
- Assistance to the sale of prescribed textbooks on the campus, as per the versions, namely, R11 and R12 of the autonomous curriculum, Mechanical and Automobile Engineering (MAE); August 01-09 2013
- MOU, brochure (drafts) and a feasibility report on the Post Graduate (PG) program planned; AY 2008-2010
- PG program brochures, for AY 2009-2010, 2010-2011 and 2011-2012
- Introduction to 3D Finite Element Modeling using MDT; 08 hrs;.April 22-25 2004; coordinator and instructor; MPED
- CAD/ CAM/ CAE; 04 hrs; February 25 2004; coordinator; Mechanical and Production Engineering Department (MPED)
- On presenting papers at the national conventions held by reputed societies
- CAD; 08 hrs; October 29 2002; coordinator and one of the instructors (02 hours as the instructor), MPED

- Curriculum, co-curriculum, and extra-curriculum, as a means of achieving the educational objectives
- Choosing the best textbook in order to achieve the course objectives and as a means of gaining comprehensive education
- Reading of **nationally and professionally** good textbooks, in order to meet technical expectations of the enrolled UG and the education program
- Effective improvements in the curricula, ensuring assimilating of skills, and improving abilities
- Significance of preparation to receive a lecture for effective learning, and enhancement of skills and abilities
- Allocation of office hours to enhance the skills and abilities of the needy and enrolled
- Influence of breathing, relaxation, and physical exercises on ethical learning, retaining, and practice
- Effective performance methods for the benefit of the people, organizations, economy, nation, and the world
- Learning methods in order to ensure course and program objectives and to transform into a successful person
- Effective means for withstanding the distractive elements and remaining as an effective contributor in the profession
- Submission of NBA application of the department in AY 2010-2011, and the necessary preparation
- Gnat Chart for versatile applications, and effectively scheduling the tasks and resources for an endeavor
- Group technology and the effects versus involuntary/ ambiguous/ unknown/ discrete destruction
- Means of creating an interest and the necessary action required to achieve it, in the national and global scenario
- Interests, integrity, stance, and unity in no uniformity; benefits of refinement over interests and the applicable near term goals; tolerance versus personal gain
- Campus atmosphere and everlasting practices for the stability; need to face the day today challenges
- Choice as per the strengths, interests, conservativeness, aggressiveness, and need in the wake of global changes; ability to withstand
- Comprehensive reports on industrial visits of academia in order to ensure and comprehend the purpose of engineering
- Feasible methods and preparation for leading to academic excellence, and reviving the lives

- Class work and reviews, and participation in the effective events, industrial visits and development; requirements for allocation
- Several sponsored research projects and a number of industry projects, over a large realm and methodology
- Several state of the art facilities and intellectual resources, up to the maximum extent that the human resources and the institution can assimilate, without financial burden, intended to revive education and ethical practices
- Global ‘phenomena and transformation’ and its relevance to the need for education and development
- Importance of the students, improving the abilities of absorbing certain basics/fundamentals pertaining to the chosen field of academic specialization that fosters the continuous learning as long as alive and imbibe the abilities to quickly verify and utilize the available multipurpose intelligence
- Achieving excellence in skills and abilities in the medium of instruction apart from gaining the depth of knowledge and continuously improving the technical and general abilities for ensuring effectiveness in the job
- Skills, abilities, and other necessities needed in order to enable and support an ethical, stable, healthy, and happy world

3.3 CCA/ ECA Attended: Events

3.4 Counseling and Mentoring Activity: Mentioned

3.5 Committees Involved in: Member, Board of Studies, Regulations R12 and R13, UG and PG (2012-2013), Chairman, Board of Studies, Regulation R11, UG and PG (2011-2012), Head of the Department (HoD), MAE; 12.2010 – 08.2011, Member, disciplinary committee (2010), Member, academic projects committee (2010), Member, project review committee (2009-2011; 2018-), Member, academic council (2009), Member, research committee (2009-2011; 2018-), Member, curriculum preparation committee (2009), Editor, for two editions of knowledge asset (05/2009-03/2011)

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted: *Without financial burden on the employment institution or NFA*

Result: Started the **continuous** practice of instructing ‘engineering drawing, engineering graphics, and the relevant courses’ for all branches of study from 2011 – date, **using CAD**; to the knowledge, it is the first time in the nation and later, it became the common practice in the nation

Purpose: (1) *Basic career essential* and **pre-requisite** for understanding CAD software – as appropriate to core engineering specializations of UG and (2) Spending time with CAD software in the first year imbibes the *practical knowledge* of various software concepts that are relevant for other engineering specializations of UG

- Machine Drawing using AutoCAD; 24 hrs; September 04-October 31 2014; coordinator and instructor; MED

- Machine Drawing using AutoCAD; 24 hrs; August 03-18 2012; coordinator and instructor; MAE
- CAD/ CAE; 96 hrs; June 20-July 02 2011; coordinator and one of the instructors (66 hrs as the instructor); MED
- Process Plan for Machining Jobs; 24 hrs; June 27-July 02 2011; MAE
- Computational Fluid Dynamics; 24 hrs; June 09-11 2011; MAE
- Finite Element Analysis using ANSYS; 24 hrs; June 02-04 2011; coordinator and one of the instructors (24 hours as an instructor); MAE
- Refresher Course in Mechanical Engineering; 54 hrs; May 02-June 01 2011; coordinator and one of the instructors (11 hrs as the instructor); MED
- Use of AutoCAD for Teaching Engineering Courses (04 modules); 58 hrs; April 11-August 25 2011; coordinator and one of the instructors (58 hrs as an instructor); MAE
- Refresher Course in Mechanical Engineering; 39 hrs; January 20-March 31 2011; coordinator and one of the instructors (12 hrs as the instructor); MED
- Machine Drawing using AutoCAD; 30 hrs; January 10-March 21 2011; coordinator and instructor; MAE
- CAD/ CAE 48 hrs; November 30-December 05 2010; coordinator and instructor; MAE
- Computer Aided Drafting using AutoCAD; 24 hrs; September 20-October 15 2010; coordinator and instructor; MAE
- CAD/ CAE, 40 hrs; November 23-27 2009; coordinator and instructor; MED
- Computer Aided 3D Modeling and Finite Element Analysis using MDT 6.0; 48 hrs; May 30-June 04 2005; coordinator and instructor; MPED
- Computer Aided Drafting using AutoCAD; 40 hrs; October 27-November 01 2003; coordinator and instructor; MPED

4.2 Attended: *Without financial burden on the employment institution or NFA*

- ECMFD; MN NIT-A, July 7-19 2008
- QSI:DA, TATA STEEL/SNTI - Jamshdpur, September 01-04 1998
- Technical talks

5. Academic Contribution and Research & Consultancy:

5.1 Invited Lectures: 1 (at a conference)

5.2 Articles/ Chapters Published in Books:

5.3 Books Published as Single Author or as Editor: 5 technical reports (additionally, 6 books in progress at various stages of development)

Eg. of a completed book: Development of a new technique to determine the critical strain energy release rate of bone and other biological materials, 1994

5.4 Projects Guided:

UG final projects (including Part Time Program): 22; UG pre-project training: 23; PG theses: 4; without financial involvement from the employment institution

5.5 Research Interests:

Mechanical Engineering, MultiDisciplinary Research; Bioengineering

5.6 Ph.D. Students:

a) Enrolled: b) Submitted: c) Awarded:

No Ph.D. program offered at the institution

5.7 Papers Presented in International/ National Journals:

Result: Improved the quality of the programmes of study and the ethically teaching faculty research by providing feasible and respectful access to the world class learning resources – R11, R12, R13, and reports ; Head count versus purpose

Initiation of several publications in wos/ jcr/ sci journals, held by the internationally proven professional societies, from 1993, in order to establish the consistency in teaching ; first international journal publication in ‘technology and engineering’, as the primary and the corresponding author, at a self-finance institution in the undivided state, in a JCR journal (not a conference proceedings journal or volume or issue or similar) – at the time when not a self-finance autonomous institution existed at the mentioned geography and in the area of technology and engineering ; this is the first journal paper published in fracture mechanics, as the primary and the corresponding author, at a self-finance institution in the nation ; first in the nation to publish 12 international (includes the most reputed journal from ASTM International, namely JTE-2017, online-07.2016) journal papers as the primary and the corresponding author in specialist journals, from a self-finance institution ; grateful justice to the educational infrastructure followed by the development of reasonable employment and infrastructural roadmap!

Significant publication and the result:

S.P.Paruchuru, Consumer-Credit-Rating-System for Developing Countries, 2004 (and discussions with the corporate, CRISIL between 2001-2003 transformed into a national credit policy decision and Unique Identification – UID programs during 2005-2009)

5.8 Papers Presented in International/ National Conferences:

Started with an international publication in 1996.

Continued in the conferences of Vignana Jyothi Society, ASTM, and ASME till the present day.

Time is the only limitation to restrict to the mentioned professional societies.

5.9 Sponsored Research Projects: *National Funding Agencies ; typical list ; obtained and executed ; during 1993-2018*

Result: Improved the quality of the programmes of study and the ethically teaching faculty research by providing feasible and respectful access to the world class learning resources - R11, R12, R13 and use of CAD thereafter

Title	Agency	Period	Grant amount	Ongg/ Compl
Sponsored Research				
<p>Standardization Aspects of Compact Sandwich Specimen for Fracture Toughness Testing of Bone, Principal Investigator, SR/FT/L-83/03</p> <p>Total number awardees throughout the nation: 200 (Two hundred only)</p> <p>Open competition: (i) the scientist designates in science, technology, engineering, mathematics and medical domain of the research establishments, though out the nation including DRDO and National Laboratories and (ii) the regular faculty members of the institutions of national importance including IITs and IISc. My consistent contribution to the employment institution is clear and proven in spite of the awareness</p>	<p>SERC, DST, NFA</p> <p>Result: at points 5.7, 5.8, 6, and 7</p>	<p>2003-2006</p>	<p>7,42,000.00</p>	<p>Completed</p>
<p>Better Opportunities for Young Scientists in the Chosen Fields of Science and Technology (BOYSCAST), Principal Investigator, SR/BY/E-038/05</p> <p>Total number of awardees throughout the nation: 43 (Forty three only)</p> <p>Open competition: (i) the scientist designates in science, technology, engineering, mathematics and medical domain of the research establishments, though out the nation including DRDO and National Laboratories and (ii) the regular faculty members of the institutions of national importance including IITs and IISc. My consistent contribution to the employment institution is clear and proven in spite of the awareness</p>	<p>SERC, DST, NFA</p> <p>Result: at points 5.7, 5.8, 6, and 7</p>	<p>Selecte d:2005 2006-2007</p>	<p>INR 13,46,490.00</p>	<p>‘</p>
<p>BOYSCAST Fellowship Research,</p>	<p>Only technical sanction with no</p>	<p>2007-2008;</p>	<p>INR13,46,</p>	<p>‘</p>

<p>Principal Investigator</p> <p>SR/BY/E-038/05 (at the employment institution)</p> <p>Total number of awardees from all the relevant disciplines in the nation: 43 (Forty three only)</p> <p>Open competition: (i) the scientist designates in science, technology, engineering, mathematics and medical domain of the research establishments, though out the nation including DRDO and National Laboratories and (ii) the regular faculty members of government funded institutions of national importance including IITs and IISc. My consistent contribution to the employment institution is clear and proven in spite of the awareness</p>	<p>financial commitment: SERC, DST, NFA</p> <p>Result: at points 5.7, 5.8, 6, and 7</p>	<p>2009-2016</p>	<p>490.00</p>	
<p>Multiscale Mechanical Methods for Characterization of Bone and Biomaterials, Principal Investigator 8023/ RID/ RPS-74/Pvt (II policy)/2011-2012</p> <p>The grant is not applicable to the government funded nationally important institutions like IITs, IISc, etc. or the research establishments like DRDO and National Laboratories. It is only applicable to the state funded academic institutions of the nation including Universities. However, the nature of funding that is clear from the sanction order (four pages) is in accordance with the quality of the national competitiveness explained for the aforesaid sponsored research projects/ fellowships. My consistent contribution to the employment institution is clear and proven in spite of the awareness : Autonomous Syllabus, R11, R12, R13, ... R22</p>	<p>AICTE, NFA</p> <p>Result: at points 5.7, 5.8, 6, and 7</p>	<p>2012-2016</p>	<p>INR 17,52,088.46</p>	<p>‘</p>
<p>Continuous research at the employment institution, exceeding the glitches</p>	<p>Genuine Expenses – international quality research</p>	<p>From 2011</p>	<p>9 Lakhs up to 2018</p>	<p>4 Lakhs from</p>

	equipment Result: at points 5.7, 5.8, 6, and 7			2018
Other external funding from the National Funding Authorities can be found in the next table, following the appended table				
Craniofacial Mechanics: FEA of Human Craniofacial Skeleton to Analyze the Influences of Buttress	UT	1994-1995	USD 3,000.00	‘
Fracture Mechanics of Bone	UT	1993-1994	USD 11,000.00	‘
Interspecies Study of Bone Fracture Toughness	UT	1994-1995	USD 10,000.00	‘
Vehicle Dynamics: Stability of Heavy Articulated Vehicles	UT	1993	USD 2,000.00	‘

Other external funding (from the National Funding Agencies):-

Upgradation of Thermal Engineering Laboratory; Chief Coordinator 8024/RIFD/MOD-370 (Pvt.)/policy-III/2011-2012	AICTE, NFA	2012-2013	INR 4,85,125.00	Completed (Executed by the prevailing HOD)
Travel Grant F. No. 6-420/2018(TG) ; CAUTION about the prevalence ; A tangible attempt to degrade the Institutions of Study, the Employment Institution, and the Authority! Hidden Motive to degrade technically and financially? Who is helping? What could have been the adverse effects on me in the absence of the auxiliary professional training and credentials? Result of hiding the credentials? Unprofessional advances of one of the staff members, while the file is being retrieved in 2019? Influence?	UGC, NFA	09-15 November 2018	INR 1,49,072.00	Completed
<p>Beware of the dormant practices that are poised to hurt the reputation of the institution, authority, professional, etc.</p> <p>Being in an exemplary position, if the unethical practices are followed, such efforts finalize?</p> <p>Black Mail tendency - no matter what I do, nothing happens to me, because of the kotary network, made after the appointment? Stance? Consequences? Pages 5, 7, and 17 ; One of the reasons for asking to include in the personal file?</p>				

5.10 Consultancy Projects: Typical list; 1995 – 2002 ; Suitable professional revenue

Title	Agency	Period	Grant amount	Ongoing/ Completed
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Multipurpose Materials Processor	MCC	1y	NA; part of the job	Completed
Roof Support	FP	“	“	“
Versatile Rolling	MCC	“	“	“
Use of Simulators in Manufacturing	KI	“	“	“
Member Data System	SME	“	“	“
Resource Data System	AFB-R	“	“	“
Multipurpose Recycling Enabler	EII	“	“	“
Plant Layouts for Ambience	FP	“	“	“
Preventive Maintenance System	EII	“	“	“
Activity Based Costing	AI	“	“	“
Development of Manufacturing Systems	AI	“	“	“
Handling of Metallic Products	FP	“	“	“
Handling of Heavy Equipment	TS	“	“	“
Indexing of Engineering Drawings	EII	“	“	“
Indexing of BIS codes	TS	“	“	“
Development of Sluice Gates	TS	“	“	“
Development of Reinforced Concrete Mixer	MCC	“	“	“
Analysis of Engine Components	KI	“	“	“
Development of Container Systems	EII	“	“	“
Development of Containers	EII	“	“	“
Development of Bio Systems	UT	“	“	“
Development of Advanced Materials	FGS	“	“	“
Submitted CCRS Proposal	CRISIL	Not applicable; Prepared/ Submitted during my stay at VRSEC		
Submitted Bridge Course Proposal	NIIT			
Submitted Powered Roof Support Proposal	APHMEL			

6 Awards / Honors Received: NO FINANCIAL BURDEN

- **BOYSCAST fellowship**, University of Texas, awarded by: Department of Science and Technology, GoI ; details at point 5.9
- **Fast Track**, Awarded by: Department of Science and Technology, GoI ; details at point 5.9
- Openly competed for **Fast Track (2003)** and **BOYSCAST (2005)** of **DST, GoI** : scientists of national research organizations including all the **DRDO** and **National Laboratories** as well as the faculty members from the institutions of national importance including **IITs/ IISc.** in the areas of science, **technology, engineering**, mathematics, and medicine (further details in 5.7, 5.8, **5.9**, and 5.10) and continued in spite of the bitter professional and personal constraints, for decades. The consistent contribution to the employment institution is clear and proven in spite of the awareness
- **Certificate of National Merit, 1987 (GoI)** : An option of the stipend could have liberally, financially, and sufficiently funded throughout the education, irrespective of the requirement for hostel admission
- Not even a minute's time spent to attend as an observer, resource person, external faculty or any other role external to the employment institution at any point of time or in any form ; Details at point 7 for further clarity on the **complete list** of employers at each time, throughout the career
- Initiated several sponsored research projects of NFA (DST, AICTE & UGC – GoI ; details at point 5.9
- Assistance to the enrolled UG in making reliable professional contribution and achievements ; suggestions to improve
- Guidance for the first Ph.D. in Natural Fiber Composite Materials at VRSEC, to the senior most faculty member and Professor of Mechanical and Production Engineering Department of the same Institution, from 2000 to 2003 (**Registered in 1996 ; submitted in 2003 ; awarded in 2004**) ; the work became a focal point for Ph.D.s
- Pursued and completed the undergraduate and postgraduate education in regular programmes of regular time at highly competent institutions with consistent learning
- Qualifications during the undergraduate education, in parallel, during AY 1988-1992 (page 8)
- High quality Post-doctoral research that helped the undergraduate programmes from 2009
- **Visiting of several international universities** around the globe, from 1992
- Award of nationally and professionally commensurate academic and industrial research, from 1992, till date
- Editor, knowledge asset of VNRVJIET during AY 2009 - 2011
- Editor, R11 UG and PG regulation (curriculum)
- Preparation of autonomous curriculum for the first batch at VNRVJIET

- Able enrolled/ alma mater/ pedagogy from 1976, till date
- Relevant and commensurate high quality positions at MNCs and research positions in academics from FY 1993
- **Principal investigator, NFA (from 2003)**
- Indian Society for Technical Education (ISTE), Life Member
- Society for Biomaterials and Artificial Organs (SBAOI), Life Member
- ASTM, Member and Reviewer of the Standards
- ASME, Member and Reviewer of the Standards
- SME (Member, 2015-2016)
- BMES (Member, 2006-2007)
- Ambassador of Bentham Science Publishers - 2018
- Chairman, Board of Studies for ME and AME, R11 - UG and PG Regulation 2011
- Member, Board of Studies, R12, R13
- Effective mentoring to the participating members of faculty, with the target of resulting in performance, at par with the international norms
- HoD, Mechanical and Automobile Engineering for the first autonomous batch at VNRVJIET and a national conference
- First international journal publication in ‘technology and engineering’, as the primary and corresponding author, at a self-finance institution in the undivided state, in a JCR journal (not a conference proceedings journal or volume or issue or similar) – at the time when not a self-finance autonomous institution existed at the mentioned geography and technology and engineering ; this is the first journal paper published in fracture mechanics, as the primary and corresponding author, at a self-finance institution in the nation ; first in the nation to publish 12 international (includes the most reputed journal from ASTM International, namely JTE-2017, online-07.2016) journal papers as the primary and corresponding author in specialist journals, from a self-finance institution (5.7 and 5.8)
- First SRP in ‘technology and engineering’, as the principal investigator/ fellow, at a self-finance institution in the undivided state, from the NFA, DST (GoI) – at the time when not a ‘self-finance autonomous institution’ existed at the mentioned geography and technology and engineering ; the said SRP is the first in fracture mechanics, from a self-finance institution, in the nation; first **BOYSCAST fellowship (DST, GoI), at a self-finance institution in the nation**; Open competition with (i) the scientist designates in science, **technology, engineering**, mathematics and **medical** domain of the research establishments, though out the nation including DRDO and National Laboratories and (ii) the regular faculty members of the institutions of national importance including IITs and IISc. My contribution to the employment organization is clear and well proven
- Number of industry and academic projects (details at point 5.10) over the technical realm,

to help the human resources to absorb academics without burden, thus to revive ethics in education

- Initiation of the practice to organize the full time short term courses/ faculty development programmes (FDPs) of a minimum of 40 hours each, that does not seek any kind of financial support from the funding agencies or the employer, in UGC/ MHRD/ AICTE approved colleges – when there existed no curricular requirement ; organization of fifteen short term training programs of 24-96 hour duration, eleven other technical training programs, and several other professional training programs as the coordinator and instructor, those conform to the aforesaid norm ; effective utilization of the same in implementing the significant curricular-improvements ; details at points 2.2, 3.2, and 4.0
- Development and implementation of all time and high quality syllabus and curriculum of the nation for the undergraduate mechanical and automobile engineering programmes of 2011-2015 as HoD, ME and AME during 12.2010 to 08.2011 and Chairman of the department board of studies during 01.04.2011 to 31.05.2012 ; proved at the right time and have been proving the essence as an academician in technology and engineering primarily to facilitate imparting the deserving-essence through UG training; continuation of the quality, quantity, and communication ; extension to various other programmes (point 2.2)
- Promoted and have been promoting the enrolled UG as high quality authors

7. Appointments:

Typical high impact positions held:

March 1991 to August 1992 (Part Time): Project Trainee, NIIT – Regional Centre, Hyderabad, India

January 1992 to May 1992 (Full time): Project Trainee, JNTU-Kukatpally

October 1992 to December 1992: Assistance for Dynamics, Mechanical Engineering, UT

January 1993 to September 1995: Research appointments at UT, CNC laboratory, Vehicle Dynamics laboratory, Orthopaedic Biomaterials laboratory, Craniofacial Mechanics laboratory – UT/ UTHSCSA

October 1995 to May 1998: Contract assignments, Project Engineer at AI, EII, CCI, SME, AFB-R, etc.

June 1998 to July 2000: Asst. Manager, Design & Development group, TATA GROWTH SHOP, TATA STEEL – India (Reference: Practice in 1998:- The starting position of Officer Cadre is ‘Officer’; The next to last positions are ‘Senior Officer’, ‘Assistant Manager’, ‘Deputy Manager’, and ‘Manager’ in the increasing order)

August 01 2000 to February 28 2006: Lecturer, Senior Lecturer, and Assistant Professor at Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC) – India

June 20 2003 to February 28 2006: Principal Investigator, Sponsored Research Project (DST, GoI), VRSEC – India

March 01 2006: Principal Investigator, Sponsored Research Project, Department of Science

and Technology, GoI

March 01 2006: BOYSCAST Fellow, Department of Science and Technology, GoI

March 02 2006 to December 31 2008: Professor, Pragati Engineering College (PEC) – India and BOYSCAST Fellow of DST, India (further details at point 5.9)

April 25 2006 to April 28 2007: BOYSCAST Fellow of DST and Visiting Research Professor (on Lien from PEC ; further details at point 5.9)

01 January 2009: BOYSCAST Fellow of Department of Science and Technology, GoI (further details at point 5.9)

January 02 2009, till the present date: Professor, Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology (VNRVJIET)

January 02 2009 to March 31 2016: BOYSCAST Fellow of DST, VNRVJIET (details at point 5.9)

July 2009 to February 2016: Principal Investigator, Sponsored Research Project (NFA), VNRVJIET ; Financial Sanction: 2 years from 07.2012 (31.03.2015, i.e., the end of the financial year, subsequent to the completion of 2 *calendar* years) ; Technical Sanction: 3 years ; Date of the Initial submission: 31.07.2009 ; Date of the Next Submission: 02.2011 (further details at point 5.9)

March 2009 to May 2009: Member, Academic Council, VNRVJIET

March 2009 to March 31 2011: Member, Curriculum Preparation Committee, VNRVJIET

May 2009 to March 2011: Editor, Knowledge Asset, VNRVJIET

July 2009 to September 2011: Member, Research Committee, VNRVJIET

November 27 2010 to September 05 2011: Head of the Department, Mechanical and Automobile Engineering, VNRVJIET

December 2010 to August 2011: Member, Disciplinary Committee, VNRVJIET

April 2011 to May 2012: Chairman, Board of Studies for R11, Mechanical and Automobile Engineering Departments, VNRVJIET

June 2012 to May 2013: Member, Board of Studies for R12 and R13 of Mechanical Engineering, VNRVJIET

Voluntary : avoiding the unethical practices within the domain of responsibility ; Donation of Work ; **Quest** : Rural ambience; **Outlook** : Reaching the global norms with concern for the ambience

8 Motto:

Work is Worship and Efficiency is Divine

Vision, Work, and Efficiency Secure Life

God and Nature Gave Everything to Know the Unknown