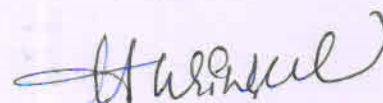


**Agenda for 6<sup>th</sup> Meeting of Board of Studies for B. Tech. in  
Mechanical Engineering on 24<sup>th</sup> March, 2017 @ 10 AM**

1. Action taken report on minutes/ resolutions of 5<sup>th</sup> BOS meeting
2. Report on implementation of autonomy with respect to syllabi and regulations  
(I B.Tech of SVEC16 & III B.Tech of SVEC14)
3. B.Tech Academic Calendar for 2017-18
4. Vision and Mission of the Department, PEOs, POs and PSOs
5. Course Structure and Syllabi with Course Objectives & Outcomes and Lesson  
Plans of Courses of II, III & IV B. Tech
6. Teaching, Learning and Evaluation
7. Research Activities
8. Faculty Development Activities
9. Staff Development Activities
10. Student Development Activities
11. Student Support Systems
12. Extension Activities
13. Any other item



**Dr. T. Hariprasad**  
Chairman (BOS)

**Dr. T. HARIPRASAD**  
Professor & BOS Chairman  
Department of Mechanical Engineering  
**SREE VIDYANIKETHAN ENGINEERING COLLEGE**  
(Autonomous)  
Sree Sainath Nagar, TIRUPATI-517 102.  
Chittoor District, Andhra Pradesh, INDIA.



24<sup>th</sup> March, 2017

**Minutes of the 6<sup>th</sup> Board of studies Meeting**

**Date:** 24<sup>th</sup> March, 2017

**Time:** 10:00 AM

**Venue:** Seminar Hall of Dept. of Mechanical Engineering

Dr. T. Hariprasad, Chairman, Board of Studies chaired the meeting and welcomed all the members to the 6<sup>th</sup> Board of Studies meeting in the Department of Mechanical Engineering. Dr G. Jayachandra Reddy, Professor, YSR Engineering College of Yogi Vemana University, Proddatur, Kadapa. Dr.K.Ramesh Kumar, Scientist 'G', DRDL, Hyderabad and Mr.M.V.Tulasiram Sharma, Asst. System Engineer, TCS, Gujarat have attended the meeting. The discussion on the items mentioned in the agenda was taken up by the Chairman, Board of Studies and the following resolutions mentioned in the subsequent paragraphs. Further, Dr.K.C.Varaprasad, Program Coordinator appraised the various activities conducted in the Mechanical Engineering Department during the current academic year 2016-2017.

**ITEM NO.1**

**Action taken report on minutes/ resolutions of 5<sup>th</sup> BOS meeting.**

The action taken report on the suggestions made by the Honorable members in the earlier BoS meeting was presented.

Sl. No	Minutes of BOS Meeting held on 22-04-2016	Action Taken
1	Change of Title for the Engineering Metrology	Changed to Metrology and Measurements
2	Change of Title for the Green Energy conversion technologies	Changed to Non-Conventional Energy Sources
3	Contents of Engineering Materials	Introduced the concepts on Ceramics and composite materials



4	Contents of Engineering Metallurgy	Included phase diagrams and related concepts
5	Panels of Question Paper Setters and Model Question Papers for I B.Tech. (SVEC16) and III B.Tech. (SVEC14)	Panels and Model Question Papers were submitted to the Principal.
6	B.Tech. Academic Calendar for 2016-17	Implemented for II, III and IV B.Tech. for the academic year 2016-2017.
7	Add on Courses	Industry oriented add on course on MAT LAB for Mechanical Engineers was conducted.

The members agreed with the proceedings and the action taken against the suggestions made in the previous meeting.

### ITEM NO.2

#### **Report on implementation of autonomy with respect to syllabi and regulations (SVEC-16: I B.Tech. & SVEC-14: III B. Tech.-I Semester).**

In executing SVEC-14 for III B.Tech.-I Semester and SVEC-16 for I B.Tech.-I Semester, no difficulties were found in teaching and learning practice of theory and laboratory courses. The same is conveyed to the members.

### ITEM NO.3

#### **B. Tech. Academic Calendar for 2016-17.**

Members of the board perused and approved the academic calendar for II, III & IV B.Tech, I & II Semesters. The members of BOS felt that deliberate discussions or changes if any required may be submitted for discussion in next academic council or governing body meeting.



**ITEM NO.4**

**Vision and Mission of the Department, PEOs, POs & PSOs of B. Tech. Program.**

BOS Members approved the proposed changes in the Program Specific Outcomes of B. Tech. in Mechanical Engineering Program of SVEC16.

**ITEM NO.5**

**Course Structure and Syllabi with Course Objectives & Outcomes and Lesson Plans of Courses of II, III & IV B. Tech.**

Chairman (BOS) presented the administrative set up for the syllabus preparation for SVEC-16 followed by proposed syllabi for all the courses of II, III & IV B.Tech. Mechanical Engineering Program. Hon'ble members approved the syllabus after discussions subjected to the following changes. Members suggested a common advise to recheck the syllabi of Thermal Engineering domain by taking the opinion of experts in that field.

- **Strength of Materials:** Members approved to include the concept of Principal Stresses and Strains in Unit-IV instead of Unit-I and to remove Moment Area method as it may not be required for ME students.
- **Manufacturing Technology:** Members suggested to keep the books on Introduction to Manufacturing Processes by M.P. Groover and Workshop Technology by Hazra Choudhary.
- **Engineering Metallurgy:** Members suggested to recheck the order of Material Characterization and Phase Diagrams concepts.
- **Kinematics of Machinery:** Any two mechanisms can be kept for velocity and acceleration diagrams.
- **Dynamics of Machinery:** Members suggested to remove Rayleigh method as the syllabus is heavy.
- **Machine Tools and Modern Manufacturing Processes:** Members suggested to remove the concept on Jigs and Fixtures.
- **Thermal Engineering-I:** Members suggested to replace unit-IV with Fuels and Combustion.
- **Design of Machine Elements-I:** Members suggested to replace rivetted joints with welded joints. Also a book on Machine Design by Dr.N.C. Pandya and Dr.C.S.Shah can be kept instead of R.S.Khurmi.



- **Industrial Engineering and Management:** Members suggested to include Motion and Time Study by Ralph M Barnes as reference book.
- **Design of Machine Elements-II:** Members suggested to remove Unit-I and split gears and bearings into two units.
- **IC Engines Lab:** An experiment on Fuels should be included.
- **Mechanical Vibrations:** Members suggested to remove Unit-IV and divide Unit-III into two parts.
- **Industrial Engineering lab:** Experiments on Fatigue measurement tests should be included.
- **Supply Chain Management:** Concept on Enterprise Resource Planning should be included.

Hon'ble external members have impressed on the presentation and appreciated the effort of internal members in proposing the Syllabi and Courses of II, III & IV B.Tech.

#### **ITEM NO.7**

##### **Teaching, Learning and Evaluation Procedures.**

The members expressed satisfaction over the teaching, learning, and evaluation procedures. The members have appreciated the good practices followed by the department in conducting diagnostic test, formative tests, remedial and reinforcement classes as well as offering of the necessary add-on courses.

#### **ITEM NO.8**

##### **Research Activities.**

The members appreciated the idea of the formation of research clusters based on knowledge areas for promoting research activities and felt satisfactory with respect to the research progress and the number of publications.



**ITEM NO.9**

**Faculty and Staff Development Activities.**

BOS members appreciated the Faculty Development activities conducted by the Department and suggested to conduct training programmes for staff members also.

**ITEM NO.10**

**Student Development Activities.**

The Program Coordinator presented the activities of Creative Association of Mechanical Engineering Students (CAMS), SAE India Professional Body activities, Expert and Guest Lecturers organized etc. Hon'ble members appreciated the efforts of the department in enriching the students suited to latest trends. Members suggested to organize more student oriented workshops and expert talks for overall development of students.

**ITEM NO.11**

**Student Support Systems.**

The Program coordinator presented the counseling system, placement related training, remedial classes, entrepreneurship activities and IIIC activities. Members satisfied with the efforts.

**ITEM NO.12**

**Extension Activities.**

The Program Coordinator submitted that the Department is encouraging students to participate in various community oriented activities. NSS Volunteers have participated in Blood Donation Camp, Cashless Transaction campaign etc. The External Members expressed their satisfaction over the steps taken in involving students over social activities.

**ITEM NO.13**

**a) Courses Offered to Other Departments:**

Hon'ble members approved the syllabus for the courses offered to other departments without any changes.



**b) Substitute Subjects:**

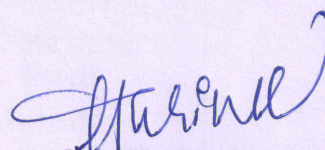
As three regulations are running simultaneously, members resolved to authorize the Chairman, BOS in Mechanical Engineering to finalize the substitute subjects as and when required and forward the same to the Chairman, Academic Council for further action.

**ITEM NO.14**

**Discretion for minor changes**

The Board authorised the chairman BOS to effect any minor changes as per the need in syllabi and later intimate these changes to the members of the BOS.

Meeting concluded with thanks to the Members.



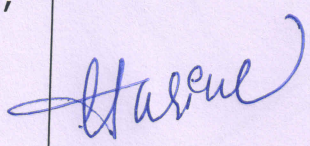
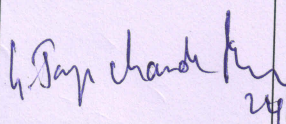
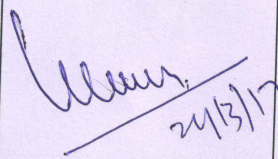
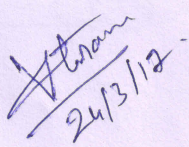
**(Dr.T.Hariprasad)**  
Chairman, BOS (ME)



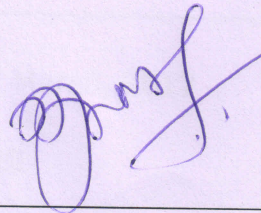
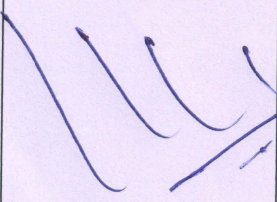
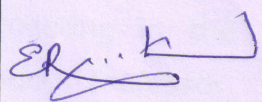

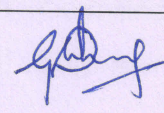
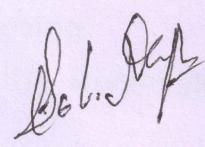

24.03.2017

**6<sup>th</sup> Meeting of Board of Studies**

**Members Present**

Sl. No.	Name of the Member	Designation	Signature
1	<b>Dr.T.Hari Prasad</b> Professor, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Chairman, BOS	
2	<b>Dr.N.V.R.Naidu</b> Principal M.s. Ramaiah institute of Technology, Vidya Soudha, MSRIT Post, MSR Nagar, Bangalore.	External Member (JNTUA Nominee)	—
3	<b>Dr. G.L. Samuel</b> Professor (Manufacturing), Department of Mechanical Engineering, Indian Institute of Technology Madras (IITM), Chennai	External Member (AC Nominee)	—
4	<b>Dr. G.Jayachandra Reddy</b> Professor, YSR Engineering College of Yogi Vemana University, Proddatur, Kadapa	External Member (AC Nominee)	 24/3/17
5	<b>Dr.K.Ramesh Kumar</b> Scientist 'G' Director [Technical], Brahmos Aero Space, Defence R&D Laboratory (DRDL) Kanchanbagh, Hyderabad.	External Member (Industry Expert)	 24/3/17
6	<b>Mr. M.V.Tulasiram Sharma,</b> Asst. System Engineer, TCS Garima Park, Infocity, Gandhi Nagar, Gujarat	External Member (Alumni)	 24/3/17



Sl. No.	Name of the Member	Designation	Signature
7	<b>Dr. K.C.Varaprasad</b> Professor & Head, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
8	<b>Dr. A.K.Damodaram</b> Professor, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
9	<b>Mr.E.Radhakrishnan</b> Assistant Professor(SL), Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
10	<b>Mr.B.Vishnu Vardhana Naidu</b> Assistant Professor, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
11	<b>Mr.G.Dileep Kumar</b> Assistant Professor, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
12	<b>Mr.S.Lakshmi Narayana</b> Assistant Professor, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati.	Internal Member	
13	<b>Mr. K.L. Narasimhamu,</b> Assistant Professor(SL), Department of Mechanical Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati	Internal Member	



## Approved Course Structure

**Program: B.Tech.- Mechanical Engineering**

**Regulations: SVEC-16**

S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
I Year - I Semester											
1.	16BT1HS01	Technical English	HS	3	1	0	4	3	30	70	100
2.	16BT1BS01	Engineering Chemistry	BS	3	1	0	4	3	30	70	100
3.	16BT1BS03	Matrices and Numerical Methods	BS	3	1	0	4	3	30	70	100
4.	16BT1BS04	Multi-Variable Calculus and Differential Equations	BS	3	1	0	4	3	30	70	100
5.	16BT10501	Programming in C	ES	3	1	0	4	3	30	70	100
6.	16BT1HS31	English Language Lab	HS	0	0	3	3	2	50	50	100
7.	16BT1BS31	Engineering Chemistry Lab	BS	0	0	3	3	2	50	50	100
8.	16BT10331	Computer Aided Engineering Drawing	ES	0	1	6	7	3	50	50	100
9.	16BT10531	Programming in C Lab	ES	0	0	3	3	2	50	50	100
Total				15	6	15	36	24	350	550	900



S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
I Year - II Semester											
1.	16BT1BS02	Engineering Physics	BS	3	1	0	4	3	30	70	100
2.	16BT2BS01	Transformation Techniques and Partial Differential Equations	BS	3	1	0	4	3	30	70	100
3.	16BT20102	Engineering Mechanics	ES	4	1	0	5	4	30	70	100
4.		Basic Electrical and Electronics Engineering	ES	3	1	0	4	3	30	70	100
5.	16BT20301	Engineering Materials	ES	3	1	0	4	3	30	70	100
6.	16BT1BS32	Engineering Physics Lab	BS	0	0	3	3	2	50	50	100
7.	16BT20251	Electrical and Electronics Engineering Lab	ES	0	0	3	3	2	50	50	100
8.	16BT20331	Engineering Workshop Practice	ES	0	0	3	3	2	50	50	100
9.	16BT20332	Materials Science Lab	ES	0	0	3	3	2	50	50	100
Total				16	5	12	33	24	350	550	900

S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
II Year - I Semester											
1.	16BT3BS01	Probability Distributions and Statistical Methods	BS	3	1	0	4	3	30	70	100
2.	16BT30301	Engineering Metallurgy	PC	3	1	0	4	3	30	70	100
3.	16BT30302	Kinematics of Machinery	PC	3	1	0	4	3	30	70	100
4.	16BT30303	Manufacturing Technology	PC	3	1	0	4	3	30	70	100
5.	16BT30304	Strength of Materials	PC	3	1	0	4	3	30	70	100
6.	16BT30305	Thermodynamics	PC	3	1	0	4	3	30	70	100
7.	16BT30331	Computer Aided Machine Drawing Lab	PC	0	0	3	3	2	50	50	100
8.	16BT30332	Manufacturing Technology Lab	PC	0	0	3	3	2	50	50	100
9.	16BT30132	Strength of Materials Lab	PC	0	0	3	3	2	50	50	100
Total				18	6	9	33	24	330	570	900



S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
II Year - II Semester											
1.	6BT3HS0	Environmental Studies	HS	3	0	0	3	3	30	70	100
2.	6BT4030	Design of Machine Elements – I	PC	3	1	0	4	3	30	70	100
3.	6BT4030	Dynamics of Machinery	PC	3	1	0	4	3	30	70	100
4.	6BT4030	Fluid Mechanics	PC	3	1	0	4	3	30	70	100
5.	6BT4030	Machine tools and Modern Machining Processes	PC	3	1	0	4	3	30	70	100
6.	6BT4030	Thermal Engineering - I	PC	3	1	0	4	3	30	70	100
7.	6BT4033	Fluid Mechanics Lab	PC	0	0	3	3	2	50	50	100
8.	6BT4033	Machine Tools Lab	PC	0	0	3	3	2	50	50	100
9.	6BT4HS3	Soft Skills Lab	HS	0	0	3	3	2	50	50	100
Total				18	5	9	32	24	330	570	900



S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
III Year – I Semester											
1.	16BT50301	Design of Machine Elements –II	PC	3	1	0	4	3	30	70	100
2.	16BT50302	Industrial Engineering and Management	HS	3	1	0	4	3	30	70	100
3.	16BT50303	Metrology and Measurements	PC	3	1	0	4	3	30	70	100
4.	16BT50304	Refrigeration and Air – conditioning	PC	3	1	0	4	3	30	70	100
5.	16BT50305	Thermal Engineering - II	PC	3	1	0	4	3	30	70	100
6.	Interdisciplinary Elective-1		IDE	3	1	0	4	3	30	70	100
	16BT50306	Human Resources Management									
	16BT50307	Instrumentation and Control Systems									
	16BT50308	Mechatronics									
	16BT40502	Database Management System									
7.	16BT50331	Dynamics and Vibrations Lab	PC	0	0	3	3	2	50	50	100
8.	16BT50332	Internal Combustion Engines Lab	PC	0	0	3	3	2	50	50	100
9.	16BT50333	Metrology and Instrumentation Lab	PC	0	0	3	3	2	50	50	100
Total				18	6	9	33	24	330	570	900



S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
III Year – II Semester											
1.	16BT3HS02	Managerial Economics and Principles of Accountancy	HS	3	1	0	4	3	30	70	100
2.	16BT60301	CAD/CAM	PC	3	1	0	4	3	30	70	100
3.	16BT60302	Heat Transfer	PC	3	1	0	4	3	30	70	100
4.	Interdisciplinary Elective-2		IDE	3	1	0	4	3	30	70	100
	16BT60303	Non-Conventional Energy Sources									
	16BT50402	Microprocessors and Microcontrollers									
	16BT41202	Java programming									
	16BT51201	Computer Graphics and Multimedia									
5.	Program Elective– 1		PE	3	1	0	4	3	30	70	100
	16BT60304	Gas Turbines and Jet Propulsion									
	16BT60305	Hydraulics and Pneumatics									
	16BT60306	Mechanical Vibrations									
	16BT60307	Supply Chain Management									
	Open Elective		OE	3	1	0	4	3	30	70	100
6.	16BT60331	CAD and Simulation Lab	PC	0	0	3	3	2	50	50	100
7.	16BT60332	Heat Transfer Lab	PC	0	0	3	3	2	50	50	100
8.	16BT60333	Seminar	EEC	0	0	0	0	2	-	100	100
9.	16BT6MOOC	MOOC	-	-	-	-	-	-	-	-	-
Total				18	6	6	30	24	280	620	900



**LIST OF OPEN ELECTIVES**

Sl. No.	Course Code	Open Elective Course Title	Sl. No.	Course Code	Open Elective Course Title
1.	16BT6HS01	Banking and Insurance	16.	16BT60114	Disaster Mitigation and Management
2.	16BT6HS02	Business Communication and Career Skills	17.	16BT60115	Environmental Pollution and Control
3.	16BT6HS03	Cost Accounting and Financial Management	18.	16BT60116	Planning for Sustainable Development
4.	16BT6HS04	Entrepreneurship for Micro, Small and Medium Enterprises	19.	16BT60117	Professional Ethics
5.	16BT6HS05	French Language	20.	16BT60118	Rural Technology
6.	16BT6HS06	German Language	21.	16BT60308	Global Strategy and Technology
7.	16BT6HS07	Indian Constitution	22.	16BT60309	Intellectual Property Rights and Management
8.	16BT6HS08	Indian Economy	23.	16BT60310	Managing Innovation and Entrepreneurship
9.	16BT6HS09	Indian Heritage and Culture	24.	16BT60311	Material Science
10.	16BT6HS10	Indian History	25.	16BT70412	Green Technologies
11.	16BT6HS11	Personality Development	26.	16BT70413	Introduction to Nanoscience and Technology
12.	16BT6HS12	Philosophy of Education	27.	16BT60505	Engineering System Analysis and Design
13.	16BT6HS13	Public Administration	28.	16BT71011	Micro-Electro-Mechanical Systems
14.	16BT60112	Building Maintenance and Repair	29.	16BT61205	Cyber Security and Laws
15.	16BT60113	Contract Laws and Regulations	30.	16BT61505	Bio-informatics



S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
IV Year – I Semester											
1.	16BT70301	Automobile Engineering	PC	3	1	0	4	3	30	70	100
2.	16BT70302	Finite Element Method	PC	3	1	0	4	3	30	70	100
3.	16BT70303	Operations Research	PC	3	1	0	4	3	30	70	100
4.		Program Elective–2	PE	3	1	0	4	3	30	70	100
	16BT70304	Cryogenics									
	16BT70305	Geometric Modeling									
	16BT70306	Quality Management and Reliability Engineering									
	16BT70307	Tool design									
5.	Program Elective–3		PE	3	1	0	4	3	30	70	100
	16BT70308	Computational Fluid Dynamics									
	16BT70309	Industrial Robotics									
	16BT70310	Product Design									
	16BT70311	Production and Operations Management									
6.	Program Elective–4		PE	3	1	0	4	3	30	70	100
	16BT70312	Power Plant Engineering									
	16BT70313	Project Management									
	16BT70314	Rapid Prototype Technology									
	16BT70315	Tribology									
7.	16BT70331	Computer Aided Manufacturing and Automation Lab	PC	0	0	3	3	2	50	50	100
8.	16BT70332	Industrial Engineering Lab	PC	0	0	3	3	2	50	50	100
9.	16BT70333	Comprehensive Assessment	EEC	0	0	0	0	2	-	100	100
Total				18	6	6	30	24	280	620	900

S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Internal Marks	External Marks	Total Marks
IV Year – II Semester											
1.	16BT80331	Project Work*	EEC	0	0	0	0	12	100	100	200
Total				0	0	0	0	12	100	100	200

\*Full-time project work

  
Chairman, BOS(ME)

Dr. T. HARIPRASAD  
Professor & BOS Chairman  
Department of Mechanical Engineering  
SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(Autonomous)  
Sree Sainath Nagar, TIRUPATI-517 102.  
Chittoor District, Andhra Pradesh, INDIA.

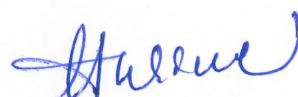


## LIST OF NEW COURSES INTRODUCED

**Program: B.Tech.- Mechanical Engineering**

**Regulations : SVEC-16**

Course Code	Name of the course
16BT50306	Human Resources Management
16BT50307	Instrumentation and Control Systems
16BT40502	Database Management System
16BT50402	Microprocessors and Microcontrollers
16BT41202	Java programming
16BT51201	Computer Graphics and Multimedia
16BT60304	Gas Turbines and Jet Propulsion
16BT60305	Hydraulics and Pneumatics
16BT70304	Cryogenics
16BT70332	Industrial Engineering Lab
16BT2BS01	Transformation Techniques and Partial Differential Equations
16BT4HS31	Soft Skills Lab
16BT6HS05	French Language
16BT6HS06	German Language
16BT6HS07	Indian Constitution
16BT6HS08	Indian Economy
16BT6HS09	Indian Heritage and Culture
16BT6HS10	Indian History
16BT6HS11	Personality Development
16BT6HS13	Philosophy of Education
16BT6HS13	Public Administration
16BT60112	Building Maintenance and Repair
16BT70413	Introduction to Nanoscience and Nanotechnology



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