



Basaveshwar Engineering College, Bagalkote

[TEQIP Lead Institute, Govt. Aided Institution, AICTE Recognized, Affiliated to VTU Belagavi]

BVVS

1.2.2: List of programs in which CBCS/Elective course system implemented in the last completed academic year

Sl.No.	Programme Code	Programme name
AY 2021-22		
1.	152	Electrical and Electronics Engineering
2.	132	Civil Engineering
3.	162	Electronics and Communication Engineering
4.	122	Biotechnology
5.	202	Mechanical Engineering
6.	2131	Master of Business Administration
7.	172	Electronics and Instrumentation Engineering
8.	182	Industrial Production Engineering
9.	102	AIML
10.	1231	Food Biotechnology
11.	1331	Environmental Engineering
12.	1332	Geo-Technical Engineering
13.	1333	Structural Engineering
14.	1531	Energy Science & Technology
15.	1631	Digital Communication Engineering
16.	2031	Machine Design
17.	1431	Computer Science & Engineering
18.	142	Computer Science Engineering
19.	192	Information Science and Engineering



Principal,
Basaveshwar Engineering College
BAGALKOT

BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS), BAGALKOT

Proceedings of 17th Academic Council Meeting

24th July 2021

Time: 4.30 pm

Venue: Blended (Online + Offline)
Online (MS-Teams)

The Chairman of Academic Council Dr. S. S. Injaganeri, Principal, Basaveshwar Engineering College extended a hearty welcome to all the members of the Academic council.	
Sub. (1)	: Seeking approval for the minutes of 16 th Academic Council Meeting held on 01.01.2021
Res.	: The Chairman presented the minutes of the 16 th Academic Council Meeting held on 01.01.2021. The members confirmed the minutes of the meeting. (Annexure - I)
Sub. (2)	: To apprise of the college activities from 02.01.2021 to 23.07.2021
Res.	: The Chairman briefly presented the college activities from 02.01.2021 to 23.07.2021. The members appreciated the performance and expressed their happiness. (Annexure-II)
Sub. (3)	: To present results of B.E. for the Academic Year 2020-2021 (before makeup Exams of III, V, VII Semesters), M.Tech (III Sem.), MBA (III Sem.) and MCA (V Sem.)
Res.	: The Controller of Examinations (CoE) presented the results for the academic year 2020-2021 for the following programmes (before make up exams): i. B.E. - III, V & VII Semesters ii. M. Tech. - III Semester iii. MBA - III Semester iv. MCA - V Semester The council approved the results presented by CoE (Annexure - III)
Sub. (4)	: Seeking approval for proceedings of the Joint Board Meetings (JBMs) held on 24.03.2021 and 22.05.2021
Res.	: The Chairman presented the proceedings of joint board meetings held on 24.03.2021 and 22.05.2021. After the discussion, it was resolved to approve the proceedings of joint board meetings. (Annexure-IV)
Sub. (5)	: Seeking approval for proceedings of Board of Studies (BoS) meetings of all departments for B.E., M.Tech. & MBA programmes for the Academic Year 2021-2022
Res.	: The Chairman presented the proceedings of BoS meetings of all the departments. After the discussion it was resolved to approve the proceedings of BoS meeting of all

Signatures of Academic Council Members

Dr. S. S. Injaganeri	Dr. P. N. Kulkarni	Dr. Veena Soragavi	Dr. R. B. Khadira Naikar	Dr. K. Chandrasekhar
Prof. M. S. Mohan Kumar	Prof. Madhu N. Belur	Prof. B. Annappa	Shri. R. S. Rajkumar	Dr. T.V. Ravi
Prof. G. R. Doddagoudar	Prof. Sreedhara S heshadri	Shri. Madhukar Manik D ube	Dr. P.G. Rakaraddi	Dr. M. S. Hebbal
Dr. S. H. Jangamshetti	Dr. V. B. Pagi	Dr. K. Shridar	Dr. V. S. Puranik	Dr. K. Bhat
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Dr. S. S. Benchalli	Smt. Vidya Hunagund	Dr. (Smt) Rashmi Hunnur	Shri. B. S. Haravi	Dr. S. G. Kambalmath
Dr. (Smt) Bharati M Reshmi	Dr. B. F. Ronad			Dr. V. G. Akkimardi

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	departments for B.E., M.Tech., and MBA programmes for the academic year 2021 - 2022 (Annexure-V)
Sub. (6)	: Seeking approval for B.E. I/II semester scheme and syllabus for the Academic Year 2021-2022
Res.	: The Chairman presented the scheme and syllabus of B.E. I/II semesters for the academic year 2021-2022. After discussion the scheme and syllabus of B.E. I/II semesters for the Academic year 2021-2022 was approved. (Annexure-VI)
Sub. (7)	: Seeking approval for implementation of regulations governing the degree of MBA and M.Tech programmes from the Academic Year 2021-2022 [i) Ref: VTU/BGM/OS-Aca/Cirs/2020-21/12, dated:01.04.2021, ii) Ref: VTU/BGM/Aca-OS-Cirs/2021-22/104, dated:06.04.2021]
Res.	: The Chairman presented the details of VTU Notifications related to implementation of regulations governing the degree of MBA and M.Tech programmes. After the discussion it was resolved to approve and implement the regulations from the Academic Year 2021-2022. (Annexure - VII)
Sub. (8)	: Seeking approval for the regulations governing: <ul style="list-style-type: none"> • B.E. • M.Tech • M.B.A. • PG-Diploma Programmes for the Academic Year 2021-2022
Res.	: The Chairman presented BEC regulations for the Academic Year 2021 – 2022 for B.E., M.Tech., M.B.A., and PG-Diploma programmes. After the discussion it was resolved to approve the regulations for the academic year 2021-2022. (Annexure-VIII)
Sub. (9)	: Seeking approval for students qualified for the Certificate Course in Nutraceuticals and Food Processing for the academic year 2020-2021
Res.	: The Controller of Examinations presented the list of students qualified for the Certificate Course in Nutraceuticals and Food Processing for the academic year 2020-2021 and it was resolved to approve and recommended for the award of course certificate. (Annexure - IX)
Sub. (10)	: Seeking approval for conducting Odd & Even semester Classes and CIE through online mode for the Academic Year 2020-2021, owing to Covid-19 Pandemic
Res.	: The Chairman presented the calendar of events for the Odd & Even semester of the Academic Year 2020-2021 and procedure employed for conduction of online classes & CIE to the members. After the discussion it was resolved to approve the conduction of

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Prof. M. S. Mohan Kumar	Prof. Madhu N. Belur	Prof. B. Annappa	Shri. R. S. Rajkumar	Dr. T.V. Ravi
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Dr. (Smt) Bharati M Reshmi	Dr. B. F. Ronad			Dr. V. G. Akkumardi

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	Odd and Even semester Classes and CIE through online/offline mode for the Academic Year 2020-2021, owing to Covid-19 Pandemic.
Sub. (11) :	Seeking approval for conduction of supplementary semester Classes, CIE and Internships through online/offline mode for the Academic Year 2020-2021, owing to Covid-19 Pandemic
Res. :	The Chairman presented the calendar of events for supplementary semester of the Academic Year 2020-2021. After the discussion it was resolved to approve the conduction of supplementary semester Classes, CIE and Internships through online/offline mode for the Academic Year 2020-2021, owing to Covid-19 Pandemic
Sub. (12) :	Seeking approval for providing open choice in SEE theory examinations for the Regular and Reregistered subjects of Even semester students of UG/PG for the Academic Year 2020-2021 [Ref: VTU/BOS/A9/2020-21/1155, dated: 08.07.2021]
Res. :	The Chairman presented the details of VTU circular related to making provision for open choice in SEE theory examinations for the Regular and Reregistered subjects of even semester students of UG/PG for the Academic Year 2020-2021. After the discussion It was resolved to approve the open choice option for SEE theory examinations for the Regular and Reregistered subjects of even semester students of UG/PG for the Academic Year 2020-2021 as one-time benefit, owing to Covid-19 Pandemic. (Annexure - X)
Sub. (13) :	Seeking approval for offering Kannada subjects (Samskruthika Kannada and Balake Kannada) as one credit course for B.E. III/IV semesters from the Academic Year 2020-2021 onwards [Ref: VTU/Aca/A-9/2020-21/2110, dated: 04.09.2020]
Res. :	The Chairman presented the details of VTU circular related to offering Kannada subjects (Samskruthika Kannada and Balake Kannada). After the discussion it was resolved to approve and include Kannada subjects as one credit course for B.E. III/IV semesters from the Academic Year 2020-2021 onwards.(Annexure - XI)
Sub. (14) :	Seeking approval for offering English for Engineers as one credit course to B.E. I/II semesters from the Academic Year 2021-2022 onwards
Res :	The Chairman presented the proposal of offering English for Engineers as one credit course to B.E. I/II semesters from the Academic Year 2021-2022 onwards and it was resolved to approve the English course for Engineers as one credit course to B.E. I/II semesters from the Academic Year 2021-2022 onwards.
Sub. (15) :	Seeking approval for offering Universal Human Values (UHV) as a mandatory course to B.E. V/VI semesters for the Academic Year 2021-2022 [Ref: F.No.AICTE/IPC/2020/93, dated: 19.02.2020]

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Res.	: The Chairman presented the details of AICTE circular related to offering Universal Human Values (UHV) course and it was resolved to approve Universal Human Values as a mandatory course to B.E. V/VI semesters for the Academic Year 2021-2022.(Annexure - XII)
Sub. (16)	: Seeking approval for change in syllabus and assessment pattern of Soft Skill subjects from the Academic Year 2020-2021 even semester onwards
Res.	: The Chairman presented the syllabus and assessment pattern of Soft Skill subjects and apprised of implementing the two courses from 2020-21 (UHS001N and UHS003N) and one course (UHS002N) from 2021-22. After the discussion it was resolved to approve the syllabus and assessment pattern as follows: i) Fundamentals of Quantitative Aptitude & Soft Skills (UHS001N) ii) Advanced quantitative aptitude & soft skills (UHS002N) iii) Career planning & professional skills (UHS003N) (Annexure - XIII)
Sub. (17)	: Seeking approval for recommendations of Equivalence Committee for B.E Program of 200 credits scheme students, admitted to B.E III semester 175 credits scheme for the Academic Year 2020-2021
Res.	: The Chairman presented the recommendations of Equivalence Committee. After the discussions it was resolved to approve the recommendations of equivalence committee for B.E Program of 200 credits scheme students, admitted to B.E III semester 175 credits scheme for the Academic Year 2020-2021. (Annexure - XIV)
Sub. (18)	: Seeking approval for recommendations of Gracing Policy Committee for UG/PG students from the Academic Year 2021-2022 onwards
Res.	: The Chairman presented the recommendations of Gracing Policy Committee for UG/PG students from the Academic Year 2021-2022 onwards. After the discussions it was resolved to approve the recommendations as follows: <ul style="list-style-type: none"> A maximum of 3 marks (for 100 marks SEE) or 1 mark (for 50 marks SEE) is to be added to one regular theory course of SEE, if a student has passed in all other regular courses and it is applicable only for odd/even Semester End Examinations(SEE) No gracing for award of class in final CGPA (max. of 0.05 to CGPA) This is applicable to all UG/PG students from academic year 2021-2022 onwards. (Annexure - XV)
Sub. (19)	: Seeking approval in reduction of duration for conduction of laboratory sessions for the Academic Year 2020-2021 owing to Covid-19 Pandemic
Res.	: The Chairman presented the details of number of weeks of laboratory sessions

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	conducted for the Academic Year 2020-2021. The number of weeks reduced owing to Covid-19 pandemic was brought to the notice of members. After the discussions it was resolved to approve the reduced duration for the laboratory sessions viz. 5 weeks for I year B.E. and 2-3 weeks for B.E. III, V & VII semester students
Sub. (20) :	Seeking approval for implementation of new examination (CIE/SEE) pattern and assessment policy for the UG/PG students from the Academic Year 2020-2021 onwards for the students admitted to first year
Res. :	The Chairman presented the new question paper pattern for the CIE and SEE. After the discussion it was resolved to approve and implement new examination pattern and assessment policy for the UG/PG students admitted to first year from the Academic Year 2020-2021 onwards. (Annexure - XVI)
Sub. (21) :	Seeking approval for implementation of new regulations for AICTE 100 Activity Points for the students admitted during 2018-2019 and 2019-2020 [Ref: VTU/BGM/BOS/A9/2020-21/447, dated. 27.04.2021]
Res. :	The Chairman presented the details of VTU circular related to regulations for AICTE 100 Activity Points for the B.E students admitted during 2018-2019 and 2019-2020. After the discussion it was resolved to approve and implement modifications in number of AICTE activity points. The details of reduced number of AICTE Activity Points for the B.E students: <ul style="list-style-type: none"> • Regular students admitted during 2018-2019 & 2019-2020 : 50 points • Lateral entry students admitted during 2019-2020 & 2020-2021 : 25 Points • Students transferred from other universities to B.E V semester during 2020-2021: 25 points (Annexure - XVII)
Sub. (22) :	Seeking approval for new Programmes: <ul style="list-style-type: none"> • B.E in Artificial Intelligence and Machine Learning • M.Tech in Food Biotechnology • M.Tech in Energy Science and Technology • M.Tech in Defence Technology
Res. :	The Chairman presented scheme and syllabus of new programmes. After the discussion it was resolved to approve the programmes. The members appreciated and expressed their happiness for starting new programmes in upcoming areas. (Annexure - XVIII)
Sub. (23) :	Seeking approval for Scholarships, Studentships, Fellowships, Prizes and Medals constituted for meritorious UG/PG students for the Academic Year 2021-2022
Res. :	The Chairman presented the list of Scholarships, Studentships, Fellowships, Prizes and Medals constituted for meritorious UG/PG students for the Academic Year 2021-2022. It was discussed and resolved to approve the proposed list for the A.Y. 2021-2022 and


Signatures of Academic Council Members
























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	post-facto approval for the previous years. (Annexure - XIX)
Sub. (24) :	Seeking approval for Non-disclosure of SEE answer scripts to students in physical form for the Academic Year 2020-2021 owing to Covid-19 Pandemic
Res. :	The Chairman presented difficulties faced by both faculty and students for disclosure/viewing of SEE answer scripts to students during the Academic Year 2020-2021 owing to Covid-19 Pandemic to all members present. After clarification the Non-disclosure of SEE answer scripts to students in physical form for the Academic Year 2020-2021 was approved. However, the committee members recommended to provide the facility of photocopy on request basis and to extend the same till the situation comes to normalcy.
Sub. (25) :	Any other matter with the permission of the Chair
Res. :	<ul style="list-style-type: none"> • The Chairman presented the new placement policy to be adopted at college from the academic year 2021-2022 onwards. After the discussions it was resolved to approve the new policy from the academic year 2021-2022 onwards • The Chairman presented the proposal for implementing NEP 2020 from the academic year 2022-2023 at BEC. After the discussions it was resolved that, BEC can initiate the preparations for implementation of NEP 2020 and the same may be implemented upon receiving the guidelines from competent authorities. • Further, members of the council suggested the institution/B.V.V Sangha to apply for converting/recognition as a state university.

The 17th Academic Council meeting was concluded with vote of thanks.


Member Secretary
[Dr. V. G. Akkimardi]


Principal

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Dr. S. S. Injaganeri		Dr. P. N. Kulkarni		Dr. Veena Soragavi		Dr. R. B. Khadiranalkar		Dr. K. Chandrasekhar	
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Proceedings of 18th Academic Council Meeting

20th Nov. 2021







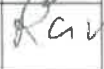



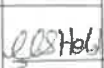


















Time: 08.30 AM

Venue: Multimedia Seminar Hall

Subject	: Seeking approval for the list of students qualified for the award of B.E., M.Tech., MBA and MCA degrees during the academic year 2020-2021.
Resolution	It is resolved to approve the list of students qualified for the award of B.E., M.Tech., MBA and MCA degrees during the academic year 2020-2021 as presented by Controller of Examination and recommended to forward the same to VTU, Belagavi.


Member Secretary
[Dr. V. G. Akkimardi]


Principal

Signatures of Academic Council Members									
Dr. S. S. Injaganeri		Dr. P. N. Kulkarni		Dr. Veena Soragavi		Dr. R. B. Khadiranaikar		Dr. K. Chandrasekhar	
Prof. M. S. Mohan Kumar		Prof. Madhu N. Belur		Prof. B. Annappa		Shri. R. S. Rajkumar		Dr. T.V. Ravi	
Prof. G. R. Doddagoudar		Prof. Sreedhara Sheshadri		Shri. Madhukar Manik Dube		Dr. P.G. Rakaraddi		Dr. M. S. Hebbal	
Dr. S. H. Jangamshetti		Dr. V. B. Pagi		Dr. K. Shridar		Dr. V. S. Puranik		Dr. K. Bhat	
Dr. (Smt) Bharati S. Meti		Dr. (Smt) S. R. Patil		Dr. A.D. Devanagavi		Dr. (Smt) Jayashri G. Ghantimath		Dr. P. L. Timmanagouda	
Dr. S. S. Benchalli		Smt. Vidya Hunagund		Dr. (Smt) Rashmi Hunnur		Shri. B. S. Haravi		Dr. S. G. Kambalmath	
Dr. Bharati Resmi		Dr. B. F. Ronad						Dr. V. G. Akkimardi	


PRINCIPAL,
Basaveshwar Engineering College-
BAGALKOT

BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS), BAGALKOT

Proceedings of 19th Academic Council Meeting

4th Dec. 2021 (Saturday)

Time: 04.30 pm

Venue: Online (MS-Teams)

The Chairman of Academic Council Dr. S. S. Injaganeri, Principal, Basaveshwar Engineering College extended a hearty welcome to all the members of the Academic council.	
Sub. (1)	: Seeking approval for the minutes of 17 th and 18 th Academic Council Meetings held on 24.07.2021 and 20.11.2021
Res.	: The Chairman presented the minutes of the 17 th and 18 th Academic Council Meetings held on 24.07.2021 and 20.11.2021 respectively. The members confirmed the minutes of the meeting. (Annexure – I & II)
Sub. (2)	: To apprise of the college activities from 24.07.2021 to 03.12.2021
Res.	: The Chairman presented the college activities from 24.07.2021 to 03.12.2021. The members appreciated the performance and expressed their happiness. (Annexure - III)
Sub. (3)	: Seeking approval for special regulations with regard to examinations & assessment and calculation of grades of current intermediate semester (Even Semester) of UG and PG programmes for the academic year 2020-2021. (Ref: VTU/BGM/Aca-OS-Cirs/2021-22/1803, dated 03.08.2021)
Res.	: The Chairman presented the details of VTU Notifications related to examinations & assessment and calculation of grades of current intermediate semester (Even Semester) of UG and PG programmes for the academic year 2020-2021. After discussion it was resolved to approve and implement the special regulations with regard to examinations & assessment and calculation of grades for the academic year 2020-2021, Even semester. (Annexure - IV)
Sub. (4)	: To present the results of the academic year 2020-2021: A. Odd Semester: i) B.E-III, V & VII Semesters, ii) M.Tech-III Sem., iii) MBA-III Sem., iv) MCA-V Sem., (After makeup examinations) v) B.E.-I Sem., vi) M.Tech-I Sem., vii) MBA-I Sem. B. Even Semester: i) B.E-IV, VI & VIII Semesters, ii) M.Tech-IV Sem., iii) MBA-IV Sem., iv) MCA-VI Sem., v) B.E-II Sem., vi) M.Tech-II Sem., vii) MBA-II Sem. C. Supplementary Semester
Res.	: The Controller of Examinations presented the results of the students for academic year 2020-2021 of the following semesters. The council approved the results of: A. Odd Semester (After makeup examinations): B.E.-III, V & VII Semesters; M.Tech-III Sem.; MBA-III Sem.; MCA-V Sem.; B.E.-I Sem.; M.Tech.-I Sem.; MBA-I Sem.

Signatures of Academic Council Members

Dr. S. S. Injaganeri	Dr. P. N. Kulkarni	Dr. Veena Soragavi	Dr. R. B. Khadiranaikar	Dr. K. Chandrasekhar
Prof. M. S. Mohan Kumar	Prof. Madhu N. Belur	Prof. B. Annappa	Shri. R. S. Rajkumar	Dr. T.V. Ravi
Prof. G. R. Doddagoudar	Prof. Sreedhara Sheshadri	Shri. Madhukar Manik Dube	Dr. P.G. Rakaraddi	Dr. M. S. Hebba
Dr. S. H. Jangamshetti	Dr. V. B. Pagi	Dr. K. Shridar	Dr. V. S. Puranik	Dr. K. Bhat
Dr. (Smt) Bharati S. Meti	Dr. (Smt) S. R. Patil	Dr. A D Devanagavi	Dr. (Smt) Jayashri G. Ghantimath	Dr. P. L. Timmanagoudar
Dr. S. S. Benchalli	Dr. (Smt) Rashmi Hunnur	Shri. B. S. Haravi	Dr. S. G. Kambalimath	Dr. (Smt) Bharati M Reshmi
Dr. B. F. Ronad				Dr. V. G. Akkimardi

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		B. Even Semester: B.E.-IV, VI & VIII Semesters; M.Tech-IV Sem.; MBA-IV Sem.; MCA-VI Sem.; B.E.-II Sem.; M.Tech-II Sem.; MBA-II Sem. C. Supplementary Semester (Annexure-V)
Sub. (5)	:	Seeking approval for implementation of NEP 2020 for BE programmes from the Academic Year 2021-2022. (Ref: VTU/BGM/ BOS/A9/2020-21/1844, dated. 05.08.2021)
Res.	:	The Chairman presented the details of VTU Notifications related to implementation of NEP 2020 for BE programmes from the Academic Year 2021-2022. After the discussions it was resolved to approve implementation of NEP 2020 for BE programmes from the Academic Year 2021-2022
Sub. (6)	:	Seeking approval for proceedings of the joint board meetings held on 28.08.2021 and 29.09.2021
Res.	:	The Chairman presented the proceedings of joint board meetings held on 28.08.2021 and 29.09.2021. After the discussion, it was resolved to approve the proceedings of joint board meetings. (Annexure-VI & VII)
Sub. (7)	:	Seeking approval for the proceedings of Board of Studies (BoS) meetings of all departments for B.E., M.Tech and MBA programmes held after 24.07.2021
Res.	:	The Chairman presented the proceedings of BoS meetings held after 24.07.2021 of all the departments. After discussion it was resolved to approve the proceedings of BoS meetings of all departments for B.E. M.Tech. & MBA programmes for the academic year 2021 -2022. (Annexure-VIII)
Sub. (8)	:	Seeking approval for the B.E. I/II semester scheme and syllabus for the Academic Year 2021-2022 as per NEP 2020
Res.	:	The Chairman presented the scheme and syllabus of B.E. I/II semesters for the academic year 2021-2022 as per NEP 2020. After discussion the scheme and syllabus of B.E. I/II semesters for the Academic Year 2021-2022 was approved. (Annexure-IX)
Sub. (9)	:	Seeking post-facto approval for providing open choice in SEE theory examinations for the Makeup & Improvement of even semester and Supplementary semester for the academic year 2020-2021 as one-time benefit to students. (Ref: VTU/BOS/A9/2020-21/1155, dated. 08.07.2021)
Res.	:	The Chairman presented the details of VTU circular related to making provision for open choice in SEE theory examinations for the Makeup & Improvement of even semester and supplementary semester for the academic year 2020-2021 as one-time benefit to students. After discussion it was resolved to approve open choice option for SEE theory examinations for the Makeup & Improvement of even semester & supplementary semester for the academic year 2020-2021 as one-time benefit to students owing to Covid-19 Pandemic. (Annexure - X)

Signatures of Academic Council Members

Dr. S. S. Injaganeri		Dr. P. N. Kulkarni		Dr. Veena Soragavi		Dr. R. B. Khadiraikar		Dr. K. Chandrasekhar	
Prof. M. S. Mohan Kumar		Prof. Madhu N. Belur		Prof. B. Annappa		Shri. R. S. Rajkumar		Dr. T.V. Ravi	
Prof. G. R. Doddagoudar		Prof. Sraedhara Sheshadri		Shri. Madhukar Manik Dube		Dr. P.G. Rakaraddi		Dr. M. S. Hebbal	
Dr. S. H. Jangamshetti		Dr. V. B. Pagi		Dr. K. Shridar		Dr. V. S. Puranik		Dr. K. Bhat	
Dr. (Smt) Bharati S. Meti		Dr. (Smt) S. R. Patil		Dr. A D Devanagavi		Dr. (Smt) Jayashri G. Ghantimath		Dr. P. L. Timmanagoudar	
Dr. S. S. Benchalli		Dr.(Smt) Rashmi Hunnur		Shri. B. S. Haravi		Dr. S. G. Kambalimath		Dr. (Smt) Bharati M Reshmi	
Dr. B. F. Ronad								Dr. V. G. Akkumardi	

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Sub. (10)	: Seeking approval for offering Universal Human Values (UHS) as a mandatory course at B.E. IV and VI semester for the Academic Year 2021-2022.
Res.	: The Chairman presented the proposal of offering Universal Human Values (UHV) as a mandatory course for the students of 2020-2021 (B.E. IV sem.) and 2019-2020 (VI sem.) for the Academic Year 2021-2022. After discussion it was resolved to approve and offer the Universal Human Values (UHS) as a mandatory course at B.E. IV and VI semester for the Academic Year 2021-2022.
Sub. (11)	: Seeking approval for conduction of CIE and SEE examinations as per BEC examinations policy for B.E I & II year regular students and reregistered subjects from the academic year 2021-2022 onwards
Res.	: The Chairman presented the details of CIE and SEE examinations as per BEC examinations policy. After discussions it was resolved to approve to conduct CIE and SEE examinations as per BEC examinations policy for B.E I & II year regular and reregistered subjects from the academic year 2021-2022 onwards
Sub. (12)	: Seeking approval for awarding B.Sc. honours degree to students (Ref: VTU/BGM/Aca-OS-Cir/2020-21/3756, dated. 24.11.2021)
Res.	: The Chairman presented the details of VTU notification related to B.Sc. honours programme. After discussion it was resolved to offer B.Sc. honours degree to students as per VTU notification.
Sub. (13)	: Seeking approval for Relaxation in Vertical Progression applicable to BE Programmes (Ref: VTU/BGM/Aca-OD/2021-22/3731, dated. 20.11.2021)
Res.	: The Chairman presented details of VTU notification related to Relaxation in Vertical Progression Applicable to BE Programmes. After discussion it was resolved to provide the relaxation in vertical progression applicable to BE Programmes for the applicable students as per VTU Belagavi notification. (Annexure - XI)
Sub. (14)	: Any other matter with the permission of the Chair
Res.	: <ul style="list-style-type: none"> The Chairman presented the details of Skill laboratory proposed by the HoDs of various departments at BEC. After discussion it was resolved to approve the proposed laboratories from the academic year 2021-2022 onwards. <p>The 17th Academic Council meeting concluded with vote of thanks proposed by Dr. V. G. Akkimardi, Member Secretary to the Chairman and other members of Academic Council for their valuable suggestions, support and kind cooperation.</p>

Member Secretary
[Dr. V. G. Akkimardi]

Principal

Signatures of Academic Council Members

Dr. S. S. Injaganeri	Dr. P. N. Kulkarni	Dr. Veena Soragavi	Dr. R. B. Khadiranalkar	Dr. K. Chandrasekhar
Prof. M. S. Mohan Kumar	Prof. Madhu N. Belur	Prof. B. Annappa	Shri. R. S. Rajkumar	Dr. T.V. Ravi
Prof. G. R. Doddagoudar	Prof. Sreedhara Sheshadri	Shri. Madhukar Manik Dube	Dr. P.G. Rakaraddi	Dr. M. S. Hebbal
Dr. S. H. Jangamshetti	Dr. V. B. Pagi	Dr. K. Shridar	Dr. V. S. Purani	Dr. K. Bhat
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Dr. S. S. Benchalli	Dr. (Smt) Rashmi Hunnur	Shri. B. S. Haravi	Dr. S. G. Kambalimath	Dr. (Smt) Bharati M Reshmi
Dr. B. F. Ronad				Dr. V. G. Akkimardi

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Proceedings of the 1st meeting of the Academic council held at 11.30 am on Saturday, 12th July at chairman's room

1. The chairman of Academic council Dr. R.N.Herkal Principal Basaveshwar Engineering College welcomed all the members of the Academic council.
2. He briefed the members about the college and highlighted about the autonomous status. The chairman also briefed the members about the problems faced for getting the autonomous status.
3. The chairman presented the Academic issues under autonomous scheme as in Appendix I

Dr.Nagabhushan of Mysore and Prof.Y Vrushabhendrappa of Davanageri suggested the followings:

- i. Credits system for UG should be reduced to 164 from 200 and PG it should be 66 Instead of 100.
- ii. They suggested to pay 13 months salary to the faculty members to make them completely involve in the autonomous system and contribute effectively.
- iii. They suggested to prepare question paper of high standard, which contains critical questions, no derivation questions and only indirect and innovate questions should be asked.
- iv. They suggested continuous evaluation should be redesigned appropriately.
- v. Relative grading system should be implemented as early as possible and procure relevant software for the same
- vi. Makeup examination benefit should be given to all students. It should not be only to the failed student but to any student who wish to opt to withdraw any subject during regular period.
- vii. Passing standard at SEE should be reduced to 30% from current 40%

Resolution: It was resolved to approve the system adopted for 2007-2008 as per VTU guidelines. It was also resolved to bring the points


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raised by the member, to the notice of the concerned authorities at VTU

4. The chairman presented various committees formed under Autonomous scheme as per the VTU guidelines as in **Appendix II**.

- i. Dr. Nagabhushan suggested to include the faculty member having minimum M.Tech degree.

Resolution : It was resolved to incorporate the above suggestion and motion is approved.

5. The Chairman presented formation of board of studies in the departments of the college as in **Appendix III**.

Resolution: It was resolved to approve the boards as mentioned in Appendix III

6. The Chairman presented the scheme and syllabus for post facto approval of I and II semester BE, M.Tech and MCA programmes for the academic year 2007-2008 as in **Appendix IV**

Resolution ; The scheme and syllabus adopted for the academic year 2007-08 for I & II sem of BE, M.Tech and MCA Approved.

7. The Chairman presented the proposed draft scheme and syllabus for I and II semester of BE, M.Tech and MCA programmes from 2008-2009 as in **Appendix V**

- i. Dr. Nagabhushan suggested to rename Computer Programmes as Computer Concepts

- ii. Dr. Nagabhushan suggested that syllabus review should be done rigorously and implement regularly

- iii. Both Dr. Nagabhushan Y. Vrushendrapa suggested to modify scheme and credits of Drawing subject. General credits of each subject to be as 3:1:1

Resolution: After discussion it was resolved to incorporate the above suggestions and will be placed in the next meeting.

8. The chairman presented draft scheme and syllabus for 3rd and 4th semester BE from the year 2008-2009 as in **Appendix VI**

- i. Dr. Nagabhushan suggested to review the credits. And also suggested to define workload of individual faculty.


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Resolution: After discussion it was resolved to incorporate the above suggestions. The motion is accepted by all members

9. The Chairman presented draft scheme and syllabus for 3rd and 4th semester M.Tech. and 3rd to 4th semester MCA from the academic year 2008-2009 as in **Appendix VII**.

Resolution: The motion is approved by all members

10. The chairman presented the results of I & II semester BE, M.Tech., and MCA for the Academic year 2007-2008 as in **Appendix VIII**.

- i. Dr. Nagabhushan Dr. Y. Vrushabhendrappa suggested that, the pass class of 5 CGPA grades should be increased to 5.75 CGPA.
- ii. They also suggested that final result card should include grades of all semesters.

Resolution: It was resolved to incorporate the above suggestions and will be placed before next meeting. The motion is accepted by all members. Also all members appreciated the development of software for in house announcement of results.

11. The chairman and Dr. S.G. Hiremath HOD of Electrical and Electronics suggested the amendment for eligibility norms for admission to PG programme in power and energy system under Electrical and Electronics department

Existing norms : Admission is open for only BE (Electrical and Electronic Engg.) or equivalent (AMIE) fresh graduates

Revised norms : i. Admission is open for only BE (Electrical and Electronic Engg.) or equivalent (AMIE) fresh graduates

ii Any branch of engineering degree with five years experience in power generation and distribution

Resolution: The motion is strongly approved by all members.

12. The chairman presented the list of certificate programmes proposed by various departments as in **Appendix IX**


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Resolution: It was resolved to include certificate programmes from all the departments and the motion is accepted by all members.

13. The chairman thanked all the members for their continued support, cooperation and valuable suggestions



Chairman Academic Council



PRINCIPAL,
Basaveshwar Engineering College
BAGALKOT

GUIDELINES FOR IMPLEMENTATION OF ACADEMIC AUTONOMY

(Framed under Section 20(w) of VTU Act, 1994)
(Effective from 2008-2009)



Visvesvaraya Technological University, Belgaum
"Jnana Sangama", Belagavi - 590 018, Karnataka

**GUIDELINES FOR IMPLEMENTATION OF
ACADEMIC AUTONOMY**

(Framed under Section 20(w) of VTU Act, 1994)

(Effective from 2008-09)



Visvesvaraya Technological University, Belgaum

"Jnana Sangama", Belagavi - 590 018

GUIDELINES FOR
IMPLEMENTATION OF
ACADEMIC AUTONOMY

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GUIDELINES FOR IMPLEMENTATION OF ACADEMIC AUTONOMY

1. Short Title and Commencement:

- (a) These *Guidelines* shall be called "**Visvesvaraya Technological University Guidelines for Implementation of Academic Autonomy at Colleges 2007**".
- (b) The *Guidelines* shall be used by the Autonomous Colleges to frame appropriate "*Regulations for Implementing the Academic Autonomy*" granted to them.
- (c) The *Guidelines* shall come into effect from the date of getting approval from the Executive Council of the University.

2. Definitions:

- (a) "Academic Autonomy" means freedom granted by the University to a College in all aspects of conducting its academic programmes, for promoting excellence.
- (b) "Autonomous College" means a College notified as an *autonomous college* by the University, as per the VTU Autonomous College Statute, 2006.
- (c) "Commission" means University Grants Commission.
- (d) "Council" means All India Council for Technical Education.
- (e) "Statute" Means VTU Autonomous College Statute, 2006;
- (f) "University" means Visvesvaraya Technological University.

3. Preamble:

As per the VTU Autonomous College Statute-2006 assented by the Chancellor and notified by the University on 28/12/2006, a number of Engineering Colleges are being granted the autonomous status. These *Guidelines* are prepared to assist such Colleges to implement the *academic autonomy* accorded to them, while deriving its full benefits and meeting the 21st century challenges faced by the technical education system in the country, like:

- Ever increasing influence of science and technology and their developments on human society;
- Shrinking time scale of new developments and the high rate of obsolescence in the older practices;
- Penetration of Information Technology in all sectors of human activity and economic development;

- Service sector becoming a major avenue for employment of technical professionals and also for economic gains;
- Emergence of **knowledge** as a key driver for the progress of nations and for increasing their influence on the world scene;

As engineers have to convert these challenges into opportunities, expectations from the 21st century engineers will be:

- Strong foundation in the basics of mathematics, science & engineering discipline;
- Command over the chosen area of technical specialization;
- Capacity to apply the professional knowledge and skills acquired;
- Good competence to learn a subject on one's own, without major external help;
- Expertise in analysis, design, modeling and simulation of complex systems;
- Scaling up, mass production, system operation and maintenance;
- Estimation of costs and time factors in an assignment;
- Ability for rational, logical, orderly and objective thinking;
- Skills in personnel management and human relations; and,
- Leadership qualities including spirit of tolerance, patience and team work;

Therefore, it is desirable for each Autonomous College to be well prepared to take the following steps, for which the **Guidelines** given herein are expected to be useful:

- (i) Make full use of the academic freedom given to it by the University, with responsibility and accountability;
- (ii) Use this opportunity to demonstrate its capabilities and innovative skills, to become 'visible' in the higher education system as a whole; and,
- (iii) Gain the confidence, gratitude and respect of all its stake holders, in particular, students, alumni, parents and the society at large.

4. Academic Programmes:

4.1 General:

- (a) An Autonomous College shall be free to launch new Degree programmes at Undergraduate (UG) and Postgraduate (PG) levels, with the approval of its Governing Body, the University and the Council. In all the cases, the programmes shall fulfill the minimum academic quality and standards for the award of Degrees prescribed by the University, the Council and the Commission.

- (b) An Autonomous College shall also be free to make changes in the existing Degree programmes with the approval of its Academic Council. Such changes could be in the schemes of instruction, syllabi, schemes of examinations and other aspects, while fulfilling the minimum academic standards of the University for the Award of Degrees. The University shall be kept informed of the changes so made, within a fortnight of their approval by the Academic Council.
- (c) An Autonomous College shall have the freedom to start Diploma (UG and PG) and/or Certificate programmes, with the approval of its Academic Council. But, the Diplomas and Certificates on completion of such programmes shall be issued only under the seal of the concerned College.
- (d) For exploiting the various benefits of *academic autonomy*, it is necessary for an Autonomous College to structure its various academic programmes based on the *Semester Scheme*, by introducing *Credits* for academic activities, bring in *Examination Reforms* for better achievement testing, award *Letter Grades and Numerical Grade Points/Averages* for the students' performance and set appropriate *Passing Standards*, as covered later in these **Guidelines**.
- (e) It is also necessary for Autonomous Colleges under the University to follow uniform practices for the *Semester Scheme, Credit System, Examinations, Letter Grades and Numerical Grade Points/Averages*, so as to enable their students to avail of horizontal/vertical mobility and transfer of credits from one College to another and other benefits of *academic autonomy*.

4.2 Nomenclatures of Programmes:

- (a) The Autonomous Colleges shall use well accepted, common nomenclatures for their Degree programmes, like those being followed by the University. Besides, the Degree Certificates issued by the University for their awardees shall bear the name of the concerned Autonomous College. This will be of help in maintaining the identity of each programme and also avoiding any confusion on the Degrees awarded in the minds of the stake holders.

(b) Therefore, the nomenclatures and their abbreviations given below, shall continue to be used for the Degree programmes at all Autonomous Colleges under the University, as required by the Council and the Commission:

(i) **UG Level:** *Bachelor of Engineering (B.E.) and Bachelor of Architecture (B. Arch.);*

(ii) **PG Level:** *Master of Technology (M. Tech.), Master of Architecture (M. Arch.), Master of Computer Applications (M.C.A.) and Master of Business Administration (M.B.A.).*

Besides, the branch/subject of specialization, if any, shall be indicated in brackets after the abbreviation; e.g., *B.E. (Mech. Engg.), M.Tech.(VLSI Design),*

(c) Further, it is necessary that the Diploma and Certificate programmes at Autonomous Colleges be also indicated in abbreviated form, like DIP., and CERT. respectively, with the branch/subject of specialization given in brackets after the abbreviation. As indicated earlier, the DIP., and CERT. awards shall be made by the concerned Autonomous College only.

4.3 Programme Duration:

(a) Ordinarily, the duration of an academic programme shall be the same as that followed by the University. i.e., *four years for B.E., five years for B.Arch., two years for M.Tech., M.Arch., and M.B.A., three years for M.C.A., one year for Diploma and six months for Certificate programmes.*

(b) As a flexible *credit system* is to be followed at each Autonomous College, it is to be noted that the programme duration shall be dictated by the period in which a student earns the prescribed *credits* for the Degree/Diploma/Certificate award. Hence, it is possible for an outstanding student to qualify for the award in a shorter time than that specified for the concerned programme in (a).above.

(c) The maximum period which a student can take to complete a full time academic programme shall be same as that prescribed for it by the University, viz., double the nominal duration of the programme, i.e., *eight years for B.E., ten years for B.Arch., four years for M. Tech./ M. Arch., M.B.A.,*

six years for M.C.A. two years for Diploma and one year for Certificate.

- (d) Besides, the maximum period for a programme at Autonomous Colleges shall also be dictated by the fact that a student has to demonstrate the prescribed minimum academic performance by registering for the prescribed minimum number of *credits* in every semester, for continuing with the programme. And, this period can be equal to or smaller than the maximum period indicated as in (c) above.

4.4 Admission of Students:

- (a) **Admissions:** The admission of students to various UG and PG Degree programmes listed under Section 4.2 (b), shall be made by the Autonomous Colleges by following the State Government and/or University Policies/Practices in this regard. However, the admission of students to Diploma and Certificate programmes shall be made by each Autonomous College on its own, by following the regulations approved by its Academic Council. In all the cases, it shall be necessary to follow the statutory provisions of reservation of seats to different categories of candidates.
- (b) There shall be provision for candidates with a polytechnic Diploma or any other qualification approved by the Council and the Commission to join UG Degree programmes at the beginning of the second year, as per the prevailing practice in the University. Besides, the students can migrate from one branch or specialization to another branch or specialization at the same College or at another Autonomous/ Affiliated College under the University at the beginning of the second year. In all these cases, the Autonomous Colleges shall follow the rules and regulations of the University.
- (c) **Eligibility Criteria:** The eligibility criteria for admission of students to UG and PG Degree programmes at Autonomous Colleges shall be the same as those prescribed by the University. But, the minimum requirements for admission to UG and PG Diploma programmes will be *Polytechnic Diploma* or equivalent qualification, and *B.E., B. Arch.* or equivalent

Degree respectively, the equivalence or its method of determination being notified by the University from time to time. However, the Autonomous Colleges will be free to prescribe appropriate eligibility criteria for admission to Certificate programmes, after receiving approval from their respective Academic Councils.

- (d) The eligibility criteria for admission of students from a non-Autonomous College to an Autonomous College, from one Autonomous College to another Autonomous College and from University scheme at an Autonomous College to its Autonomous scheme, shall be fixed by the Academic Councils of the respective Autonomous Colleges, who shall frame suitable rules for this purpose consistent with the objectives of *academic autonomy*. A copy of the rules so adopted shall be sent to the University within a fortnight of such adoption.
- (e) The eligibility criteria for admission of students from other Universities to an Autonomous College, shall be fixed by the Academic Council of the College by getting the individual cases examined by the concerned Board(s) of Studies and also by following the same criteria as in (d) above and recommending the names of such candidates qualifying for admission to the University, for its approval.

4.5 Semester Scheme:

- (a) It is well known, the *Semester Scheme* provides several benefits to technical education programmes, in contrast to the *Annual Scheme*. Therefore, it is necessary for all the Autonomous Colleges under the University to adopt the *Semester Scheme* for their UG, PG, Diploma and Certificate programmes.
- (b) **Academic Calendar:** There shall be uniformity in the functioning of the *Semester Scheme* across all Autonomous Colleges under the University, as this will provide the well needed *academic flexibility* to their stake holders, particularly the students and the faculty members. For this purpose, each academic year shall be divided into *semesters*, with their calendar, duration and academic activities being fixed in advance by all the Autonomous Colleges jointly with the University, while maintaining a common *reopening* date for the *odd semester*. A copy of the calendar so fixed by each College shall be forwarded to the University two weeks before the commencement of each academic year.

(c) A typical breakdown of academic year for implementing the Semester Scheme at Autonomous Colleges is given in Table 1:

Table 1: A Typical Breakdown of Academic Year into Semesters

1	No. of Semesters/Year	Three; Two being Main Semesters (<i>Odd, Even</i>) and one being a Supplementary Semester; (<i>Note: Supplementary Semester is primarily to assist weak and/or failed students through make up Courses. However, Autonomous Colleges may use this Semester to arrange Add-On Courses for other students and/or for deputing them for field work and/or internship etc..</i>)
2	Semester Durations(Weeks)	Main Semesters (<i>Odd/Even</i>): 19 each. Supplementary Semester: 8;
3	Academic Activities (Weeks):	<p>Main Semester: Registration of Courses-0.5; CourseWork-15.5; Examination Preparation-1.0; Examinations- 1.0; Declaration of Results- 1.0; <i>Total: 19;</i></p> <p>Supplementary Semester (only for make up Courses): Registration of Courses- 0.1, Course Work- 7.0; Examination Preparation-0.2; Examination-0.2; Declaration of Results-0.5; <i>Total: 8;</i></p> <p>Inter-Semester Recess: After each Main Semester- 2; After Supplementary Semester- 2; <i>Total: 14 (for good students) and 6 (for weak students);</i> (<i>Note: In each Semester, there shall be various provisions for students like, Registration of Courses at the beginning, Dropping of Courses in the middle and Withdrawal from Courses towards the end, all being under the advice of Faculty Members. These facilities are required to ensure proper monitoring of students by Faculty Advisors, leading to their improved learning capabilities and minimizing their chances of failure in the Courses registered.</i>)</p>

4	Examinations:	<p><u>Continuous Internal Evaluation (CIE) and Semester End Examination (SEE)</u>, both having equal weights in the students' performance in Course Work/Laboratory Work and other activities;</p> <p><i>(Note: The CIE shall be conducted by the subject teacher throughout a Semester on dates to be announced in advance, and its results made known to the students from time to time. This will be of help to the students to decide on Dropping of Courses or Withdrawal from Courses based on their performance and in consultation with their Faculty Advisors. However, the dates for SEE at all the Autonomous Colleges shall be jointly fixed by them in consultation with the University, so as to facilitate the students in 'transfer of credits'.)</i></p>
5	A Typical Calendar:	<p>Main Semester (1): 1st September - 10th January(Odd) (19 Weeks);</p> <p>Recess : 12th January - 24th January (2 Weeks);</p> <p>Main Semester 2: 27th January - 6th June(Even) (19 Weeks);</p> <p>Recess : 8th June - 20th June (2 Weeks);</p> <p>Supplementary Semester : 24th June - 14th August (8 Weeks);</p> <p>Recess: 17th August - 29th August (2 Weeks) Total: 52 Weeks.</p> <p><i>(Note: This calendar is to be used only as an example to assist the Autonomous Colleges to fix their respective calendars for mutual benefit and in consultation with the University. Specific time periods are to be fixed in this calendar for Registration of Courses, Dropping of Courses and Withdrawal from Courses by the Colleges individually.)</i></p>

6	Other Items:	<ul style="list-style-type: none"> • Care shall be taken by each Autonomous College to ensure that the total number of days for academic work are > 180/year; • Academic schedules prescribed at each College shall be strictly adhered to for achieving success of the <i>Semester Scheme</i>; • <i>Supplementary Semester</i> shall be mainly used by the Colleges for conducting <i>Make up Courses</i>, for the benefit of weak or failed students; • Students failing in any Course(s) at a College shall re-register for the same, when offered again and go through CIE and SEE in each case; • Minimum, Maximum and Average Course loads per Semester at all Autonomous Colleges shall be as specified by the University;
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5. Credit System:

5.1 General:

- (a) As the *Credit System* has many advantages over the conventional system of organizing academic programmes, it is necessary to introduce an appropriate *Choice Based Credit System (CBCS)* for the various programmes at Autonomous Colleges under the University. This will be of great benefit to the students in their preparations to meet the challenging opportunities ahead.
- (b) In the *Credit System*, the course work of students is unitized and *one credit is assigned to each unit* after a student completes the teaching-learning process as prescribed for that *unit* and is successful in its assessment. However, there are different definitions followed in academic circles for the size of a *unit* and in turn, for a *credit*. This needs to be given careful consideration at the Autonomous Colleges.

(c) **Credit Definition:** As it is necessary to have uniformity in the definition of *credit* across all Autonomous Colleges under the University for the benefit of its stake holders, the following widely accepted definition for *credit* shall be followed here. This can be of mutual benefit to the Colleges, as it provides the well needed flexibility to the students and also strengthens the CBCS under the University. Here, **one unit of course work** and its corresponding **one credit** (while referring to a Main Semester (Odd/Even)) shall be equal to:

- Theory course, conducted for 1 hour/week/semester;
- Laboratory course or Tutorial, conducted for 2 hours/week/semester;

(Note: (i) The above figures shall be multiplied by a factor of 2 in the case of the Supplementary Semester.

(ii) Other student activities which are not demanding intellectually or which do not lend to effective assessment, like practical training, study tours, guest lectures shall not carry any credits.)

(d) **Course Registration:** A student shall register for courses (core or elective) to earn *credits* for meeting the requirements of a Degree/Diploma/Certificate programme. Such courses together with their *grades* and the *credits* earned will be included in the *Grade Card* issued by the College at the end of each semester, like *odd, even, supplementary* and it forms the basis for determining the student's academic performance in that semester.

(e) **Audit Courses:** In Addition, a student can register for courses for *audit* only, with a view to supplement his/her knowledge and/or skills. Here also, the student's grades will have to be reflected in the *Grade Card*. But, these shall not be taken into account in determining the student's academic performance in the semester. In such a situation, it will not be any necessity for the Autonomous College to issue to the student any other *transcript* covering the *audited courses*.

5.2 Credit Structure:

(a) A typical *Credit Structure* for course work based on the above definition is given in Table 2:

Table 2: Typical Credit Structure for Course Work

Lectures (hrs/wk/ Sem)	Tutorials (hrs/wk/ Sem)	Lab. Work (hrs/wk/ Sem)	Credits (Lec:Tut:Lab)	Credits (Total)
3	0	0	3:0:0	3
2	2	0	2:1:0	3
2	0	2	2:0:1	3
2	2	2	2:1:1	4
0	0	6	0:0:3	3

(b) **Major Benefits:** Major benefits accruing from the adoption of *Credit System* are listed below:

- Quantification and uniformity in the listing of courses for all programmes at an institution, like core(hard/soft), electives and project work;
- Ease of allocation of courses under different heads by using their *credits*, to satisfy national/international practices in technical education;
- Convenience to specify the average and minimum/maximum limits to course load per semester, in the form of *credits* to be earned by a student;
- Flexibility in programme duration for students by enabling them to pace their course load within min./max. limits based on their preparation & capabilities;
- Wider choice of courses available from any department of the same College or even from other similar Colleges, either for *credit* or for *audit*, ;
- Improved facility for students to optimize their course work by availing of transfer of *credits* earned by them, from one College to another.

(c) Thus, it is more appropriate to specify the eligibility requirements for a Degree/ Diploma/Certificate award by prescribing the total number of *credits* to be earned, rather than by using the Programme Duration (as indicated in Section 4.3.) This will be of great help in providing the well needed flexibility to the students in planning their academic programmes and also their future careers.

5.3 Course Load:

- (a) In the planning of Course work for an academic programme like, UG/PG Degree, Diploma and Certificate at Autonomous Colleges, it is therefore necessary to specify the average Course load for a student per semester, as well as its minimum and maximum limits. Here again, uniformity shall be maintained in these parameters across all Autonomous Colleges under the University, so as to benefit the students.
- (b) Looking at the prevailing practices at leading institutions in India and abroad in this respect and considering the academic strength and capability of an average student, the average course load at Autonomous Colleges under the University shall be fixed at 25 *credits/semester* with its minimum and maximum limits being set at 20 and 30 *credits* respectively. This pattern shall be followed uniformly at each Autonomous College by making a provision in its time table for the students to register for 25 *credits* on an average in each semester
- (c) **Course Flexibility:** Further, each Autonomous College shall follow the following practices for providing flexibility to its students in their academic programmes, to meet their varied needs:
- **Faculty Advice:** Each student is to be assigned to a *Faculty Advisor*, whose functions are to advise the student on all academic matters (like registration of courses, dropping of courses and/or withdrawing from courses), to monitor his/her performance and to serve as a *friend, philosopher and guide* during studentship at the College. Identification of students as slow, average or fast learners to help them pace their studies/learning at the College based on their individual abilities to be a major outcome of the *Faculty Advisory System*;
 - A student is to be normally permitted to register for the average course load, i.e., 25 *credits* in the first semester; And, based on academic performance in the semester and faculty advice, he/she is to be given opportunity to continue with the load (for average and fast learners) or to reduce it to ≥ 20 *credits* (minimum permitted) by dropping of/withdrawing from some course(s) (*credits*) before the prescribed dates; This facility is to assist the

- student to pace the course work suitably, to minimize the chances of failing in course(s) and optimize learning;
- The student's performance in the first semester is to form the basis for faculty advice on the number of *credits* to be registered in the second (or subsequent) semester, (to be within the minimum/maximum limits of 20 and 30 *credits*); Further faculty advice and close monitoring to help a slow learner to pace the course work properly by reducing the course load, if required and to minimize the chances of failure in the semester;
 - The above experience is to enable the student to properly plan his/her course load in each semester to follow, by choosing it to be between ≥ 20 and ≤ 30 *credit* limits, based on faculty advice and his/her academic performance in the previous semester; Faculty advice is to be also useful to the student in identifying appropriate elective courses.
 - This experience is to also help fast learners (or outstanding students) to accelerate their programmes by registering and maintaining up to the maximum ($=30$ *credits*) course load in each succeeding semester, based on their academic performance in the preceding and also in the current semesters; Such students are to be able to complete the total requirements of the programme ($=200$ *credits*) in a shorter time period, like 7 semesters in all.
 - Similarly, slow learners (or weak students) are to register only for the minimum ($=20$) number of *credits* in each succeeding semester and strive to maintain good performance in all the courses registered and complete the total requirements for the programme ($= 200$ *credits*) at a slower pace, say 9-10 semesters in all.
 - All Autonomous Colleges under the University are to set uniform standards for enabling the vertical progression of students from one semester/academic year to the next; The number of *credits* earned by a student during the semester/year and Semester Grade Point Average(SGPA) as well as Cumulative Grade Point Averages(CGPA) to serve as the performance indices in determining these standards, as covered later in these *Guidelines*;

- Each Autonomous College is to set up and strictly follow a well organized *Faculty Advisory System*, effective examinations/assessment system and a comprehensive Academic Calendar prescribing specific dates for each activity (as in Table 1), for good success in implementing the above flexibilities;
- (d) The total number of *credits* required to be earned by a student to qualify for the Degree/Diploma/Certificate awards shall be as given in Table 3:

Table 3: Total Number of Credits to Qualify for Degree/ Diploma/Certificate Award

Programme	Normal Duration: Years (Semesters)	Total No. of Credits to be Earned (Average/Semester= 25)
UG Degree:		
• B.E.	4.0 (8)	200
• B. Arch.	5.0 (10)	250
• B.E Degree Through lateral entry at 2 nd year level	3.0 (6)	150
PG Degree:		
M. Tech.	2.0 (4)	100
M. Arch.	2.0(4)	100
M.B.A.	2.0(4)	100
M.C.A.	3.0(6)	150
Diploma (UG/PG)	1.0 (2)	50
Certificate	0.5 (1)	25

- (e) **Contact Hours:** Considering the expectations from engineering professionals with UG and PG degrees in the 21st century, it is necessary to limit the number of contact hours for the students at Autonomous Colleges under the University to < 35/week. This will be of help to students in getting enough time and opportunity to develop their

creative talents and abilities, benefitting from *Add-On* courses and also those taken for *audit*, in addition to the ones prescribed for *credit* under a Programme and preparing them for challenging and exciting careers ahead. A typical example showing the calculation of *contact hours* based on course *credits* is given in Table 4:

Table 4: Calculation of Contact Hours/Week – An Example

Typical Course Load per Semester			Contact Hours per Week
No. of Courses	Credits/Course Total Credits		
2 Lecture Courses	3:0:0	6	6
2 Lec. cum Lab. Courses	3:1:0	8	10
2 Lec. Cum Tut. Courses	3:0:1	8	10
1 Lec, Lab cum Tut. Course	1:1:1	3	5
Total: 7	10:2:2	25	31

6. Curriculum Framework:

6.1 General Issues:

- (a) Curriculum Framework is important in setting the right direction for a Degree/ Diploma/Certificate programme at an Autonomous College, as it takes into account the type and quantum of knowledge necessary to be acquired by a student to qualify for a particular award in his/her chosen branch or subject area.
- (b) Besides, this also helps in assigning the *credits* for each course, sequencing the *courses* semester-wise and finally arriving at the total number of *courses* to be studied and the total number of *credits* to be earned by a student to fulfill the requirements for a particular conferment.
- (c) **B.E. Degree Programme:** The Curriculum Framework for a B.E. Degree programme is given below as an example. This programme shall include courses covering:
 - Humanities and Social Sciences including Management;

- Basic Sciences (Mathematics, Physics, Chemistry, Biology);
- Engineering Sciences (Materials, Workshop, Drawing, Computers);
- Professional Core Subjects, relevant to the chosen specialization/ branch;
- Professional Electives, relevant to the chosen specialization/ branch;
- Elective Subjects, from other technical and/or emerging subject areas;
- Project Work, Seminar and/or Internship in Industry or elsewhere.

(d) **Mandatory Courses:** The UG Degree programmes also require the inclusion of certain courses necessary for familiarity of subjects, like Environmental Studies, Constitution of India, Communication Skills, Proficiency in a Language as *Mandatory Courses*. Such courses will not carry any *credits* for the award of the Degree; But, a pass in each of such course during the programme shall be a necessary requirement for the student to qualify for the Degree award. Hence, each Autonomous College under the University shall take necessary steps for arranging the *non-credit, Mandatory Courses* as required and to include the student's performance (like, pass or fail) in such course(s) in his/her transcript.

(e) **Allocation of Credits for B.E. Degree Programme:** Looking at the UG Engineering Degree programmes practiced at leading institutions in India and abroad and the need for Indian engineering professionals to be able to meet the 21st century challenges, it is necessary for each Autonomous College to follow the breakdown of course work as given in Table 5. It is expected that this breakdown will lead to a highly useful and well designed *B.E* Degree programme under the University. While it shall be required for all the Autonomous Colleges under the University to follow the percentage range of total number of *credits* allocated under each subject area, each College can fix the actual (average) number of *credits* for each subject area to suit its own needs. On similar lines, allocation of *credits* can be proposed for the *B. Arch.* Degree programme at the Autonomous Colleges under the University.

Table 5: A Typical Breakdown for the B.E. Degree Curriculum

Subject Area	Percentage of Total Credits		Average No. of Credits (Typical)
	Minimum	Maximum	
Humanities and Social Sciences (HSS)	5	10	10
Basic Sciences (BS)	15	20	30
Engineering Sciences (ES)	15	20	30
Professional Subjects(PS) - Core	30	40	80
Professional Subjects(PS)- Electives	10	15	20
Other Electives	5	10	10
Project Work	10	15	20
Total:			200

- (f) **Sequencing of B.E. Degree Courses:** The above breakdown of the B.E. Degree curriculum shall form the basis for proper sequencing of the course work for the B. E. Degree programme at all Autonomous Colleges under the University. Based on this, a typical sequencing plan for the course work of the B.E. Degree students at the Autonomous Colleges is given in Table 6. A similar sequencing plan can also be proposed for the B. Arch. Degree programme launched at Autonomous Colleges under the University.

Table 6: A Typical Sequencing Plan for the B.E. Degree Curriculum

<i>Semesters</i>	<i>Subject Coverage</i>
I -II	HSS, BS and ES; Common for all Branches; Mandatory Non-Credit Courses
III-IV	HSS, BS and ES; Common for all Branches (to be continued); Also, Mandatory Non-credit Courses(to be continued, if required PS - Core (Hard/Soft)*; In two/three groups (like Electrical, Non-electrical); Area wise Orientation; Add-On Courses;
V-VII	PS- Core & Electives; Other Electives; Branch-wise Orientation; Add-On Courses; Seminar;
VIII	PS-Electives; Other Electives, Project work, Dissertation, Add-On Course; Seminar ; Final wrap-up of Programme;

**Hard Core*: Compulsory Courses; *Soft Core*: Choice among Compulsory Courses;

- (g) **Allocation of Credits for PG Degree Programme:** On similar lines as in Table 5, a typical allocation of *credits* at PG programmes is now given in Tables 7-9. Here also, *hard core* includes all compulsory courses, whereas *soft course* includes a choice possible among compulsory Courses. While it shall be required for all the Autonomous Colleges under the University to follow the percentage range of total number of *credits* allocated under each category, each College can fix the actual (average) number of *credits* under each category to meet its needs. On similar lines, allocation of *credits* can be proposed for the *M. Arch.* Degree programme at Autonomous Colleges under the University.

Table 7: A Typical Breakdown for the M. Tech Degree Curriculum

Course Category	Percentage of Total Credits		Average No of Credits (Typical)
	Minimum	Maximum	
Core Courses (Hard/Soft)	15	25	20
Electives (Specialization/Other)	25	35	30
Project Work	30	45	40
Industrial Internship & Field Work	03	05	05
Seminar	03	05	05
Total	-----	-----	100

Table 8: A Typical Breakdown for the M.B.A Curriculum

Course Category	Percentage of Total Credits		Average No of Credits (Typical)
	Minimum	Maximum	
Core Courses (Hard/Soft)	45	60	50
Electives (Specialization/Others)	20	35	25
Seminar	02	10	05
Field Work/Internship & Project Work	10	25	20
Total			100

Table 9: A Typical Breakdown for the M.C.A. Curriculum

Course Category	Percentage of Total Credits		Average No of Credits (Typical)
	Minimum	Maximum	
Core Courses (Hard/Soft)	40	55	70
Electives (Specialization/Other)	20	35	35
Seminar	02	10	05
Industrial Internship & Project Work	20	35	40
Total			150

7. Assessment:

7.1 Achievement Testing:

- (a) The assessment of students' performance during and/or at the conclusion of a programme has to be done using examinations. In general, an examination may have different objectives, like achievement testing, prediction testing, endurance testing, creativity testing and testing for ranking.
- (b) In technical education, the assessment has to be of the *achievement testing* type, so that a student's knowledge, understanding and competence in the subjects studied are properly assessed and certified. Therefore, Autonomous Colleges under the University are required to introduce proper reforms in the examination system to achieve this goal. The **Guidelines** given below enable the Autonomous Colleges to achieve this goal and gain the confidence and respect of their stake holders, particularly students.
- (c) Typically *achievement testing* is done in two parts as follows both of them being important in assessing a student's achievement:
 - **Sessional:** Involving Continuous Internal Evaluation (CIE), to be conducted by the subject teacher all through the semester; and, to include mid-term tests, weekly/fortnightly class tests, home work assignments, problem solving, group discussions, quiz, seminar, mini-project and other means.
 - **Terminal,** covering Semester-End Examination (SEE), to be conducted by the subject teacher jointly with an external examiner at the end of a semester, on dates to be fixed at the College level; and to include a written examination for theory courses and practical/design examination with built-in oral part for laboratory/design courses.
- (d) In the *credit system*, it is necessary to have both CIE and SEE of equal (50:50) significance. And, a student's performance in a subject shall be judged by taking into account the results of CIE and SEE individually and also together. Therefore, this practice shall be followed at all Autonomous Colleges under the University

Question Papers:

- (a) **Achievement Testing:** For an effective *achievement testing* of the students in a course, a good question paper needs to be used as the principal tool. This makes it necessary for the question papers used at CIE and SEE to:
- Cover all sections of the course syllabus uniformly;
 - Be unambiguous and free from any defects/errors;
 - Emphasize knowledge testing, problem solving & quantitative methods;
 - Contain adequate data/ other information on the problems assigned; and,
 - Have clear and complete instructions to the candidates.
- (b) **Question Paper Planning:** These requirements make it necessary for a Question Paper to cover the entire syllabus, with a provision for the students to answer questions from the full syllabus. As students need to be given some choice in the questions included in the Paper, it is necessary for the Question Papers at SEE, in particular, to have built in choice under each unit of the syllabus. This factor shall be taken note of by the Board of Examiners at each Autonomous College, while planning for the Question Papers.
- (c) Besides, it is also necessary for the Course syllabi to be well drafted, be defect-free and be properly unitized (or modularized) to enable the setting of good question papers covering the whole syllabus. These aspects have to be taken into account, in particular, by the Boards of Studies at Autonomous Colleges under the University.
- (d) **Typical Question Paper:** The questions to be included in the Question Papers at CIE and SEE can be of two types as follows and the subject teachers as well as the external examiners shall have to be well trained to set them:
- **Multiple Choice Questions**, having each question to be answered by tick marking the correct answer from the choices (commonly four) given against it; Such a question paper to be useful in the testing of knowledge, skills, comprehension, application, analysis, synthesis, evaluation and understanding of the students; However, Question Papers for CIE and SEE to include *no more than* 15-20% of the questions of this type.

- *Comprehensive Questions*, having all questions of the regular type to be answered in detail; Such a Question Paper to be useful in the testing of overall achievement and maturity of the students in a subject, through long questions relating to theoretical/practical knowledge, derivations, problem solving, application and quantitative evaluation.

7.2 Examinations:

- (a) **Maintenance of Standards:** For ensuring a high standard in CIE and SEE, meeting the expectations of the Statute and being able to declare the results of students' performance at both CIE and SEE in a time bound manner before the conclusion of a *semester* as per the Academic Calendar of Autonomous Colleges under the University, it is necessary for each College to follow the practical suggestions for conducting examinations given below:
- **CIE:** The CIE shall be conducted exclusively by the subject teacher. The teacher to spell out the components of CIE to the students in advance, maintain transparency in its operation, declare the evaluation results in time and then return the answer scripts and assignment sheets to them;. The teacher to also solve the questions from these test papers during tutorials for the benefit of weak students.
 - **SEE:** The SEE shall be conducted jointly by the subject teacher and an external examiner appointed for this purpose by the Autonomous College. Here, the external examiner to mainly associate with the work of Question Paper setting, because of the difficulties in having him/her for conducting the evaluation of students' answer scripts due to the tight time schedule for the various tasks connected with SEE.
 - **SEE Answer Scripts:** The answer scripts of SEE may be normally evaluated by the subject teacher only; But as a first step, a Departmental Committee of the Autonomous College to preferably oversee and ensure the quality and standard of evaluation and of the *grades* awarded in all the cases; The next step to be taken before declaring the results, to include an external review of SEE conducted.

- **External Review of SEE:** An external review shall be conducted under the aegis of the Board of Studies/Board of Examiners of the College by appointing a panel of subject experts from outside the College for this purpose and aiming at totality in the review of SEE operation and covering such steps as, *question paper review, checking random samples of answer scripts, analysis of results/grades awarded, etc..* This step is necessary for gaining the confidence of the University and also of the society at large, on the fairness and transparency in the system;
- (b) **Attendance Standards:** All students of Autonomous Colleges under the University shall maintain a minimum attendance of 85% in each course registered. In case of short fall in this, the Academic Council of the College shall consider and may condone deficiency up to a limit of 10% in special cases. Any student failing to meet the above standard of attendance in any course(s) registered, shall not be allowed to appear for SEE of such course(s);
- (c) **Attendance at CIE and SEE:** Attendance at all examinations, both CIE and SEE of each course registered shall be compulsory for the students and there shall not be any provision for re-examinations. Any student against whom any disciplinary action by the College is pending shall not be permitted to attend any SEE in that Semester:
- (d) **Passing Standards:** High standards shall be maintained in all aspects of the examinations at Autonomous Colleges under the University. For this purpose, each Autonomous College shall follow the *standards of passing* at CIE and SEE for each Course, registered, as given in Tables 10 -11(*Please see Section 8 on Grading*):

Table 10: Passing Standards at Colleges using Relative Grading

Evaluation Method	Passing Standard
Sessional (CIE)	Score: $\geq 40\%$
Terminal (SEE)	Score in (CIE +SEE) leading to the award of Letter Grade $\geq E$ (as covered in Section 8.1(d));

Table 11: Passing Standards at Colleges using Absolute Grading

Evaluation Method	Passing Standard
Sessional (CIE)	Score: $\geq 40\%$
Terminal (SEE)	Score: $\geq 40\%$

7.2

- (e) **Project work Evaluation:** The evaluation of CIE of the project work shall be based on the progress of the student in the work assigned by the project supervisor, periodically evaluated by him/her together with a Departmental Committee constituted for this purpose at each Autonomous College. Seminar presentation, project report and final oral examination conducted by a common Project Evaluation Committee at the Department level shall form the SEE of the project work.
- (f) In the case of other requirements, such as, seminar, industrial internship, field work, comprehensive viva-voce, if any, the assessment shall be made as laid down by the Academic Council of the concerned Autonomous College.
- (g) **There shall be no re-examination for any Course in the credit system.** To take care of such students:
- Who have absented themselves from attending CIE or SEE; without valid reasons; or,
 - Who have failed (Grade F, as covered in Section 8)) to meet the minimum passing standards prescribed for CIE and/or SEE; or,
 - Who have been detained for want of attendance; or,
 - Who have withdrawn (Grade W, as covered in Section 8.) from a Course,

Such students shall be required to re-register for the Course(s) and go through CIE and SEE again and obtain a *Grade equal to or better than E* (Please see Tables 10-11.) in each case. While such students shall have to re-register for the same Course(s) if *hard core*, they can re-register for alternative Course(s) from among the *soft core or elective Courses*, as the case may be. The re-registration shall be possible when the particular Course is offered again either in a *main (Odd/Even) or a supplementary semester*.

- (h) **Successive Failures:** If a student fails (Grade F, as covered in the Section 8.) to pass a Course and earn the *credits* prescribed for the Course **even after three attempts**, the admission of the student to the programme shall be terminated and the student shall be asked to leave the Autonomous College. However, such a student may seek admission to the programme at the College afresh.

8. Grading:

8.1 General:

- (a) In recent years, the *grading system* has replaced the evaluation of students' performance in a Course based on absolute marks, because of its many advantages. Therefore, Autonomous Colleges under the University shall follow this practice. Here again, it is necessary to maintain uniformity in the *grading practice* at different Colleges to ensure that the migration of students or transfer of *credits* among Autonomous Colleges under the University is made easy.
- (b) **Letter Grades:** A *letter grade* is basically a qualitative measure (an alphabet/letter) giving the performance of a student, such as, Outstanding (S), Excellent (A), Very Good (B), Good (C), Average (D), Poor (E) and Unsatisfactory/Fail (F), based on the raw score (marks, as in conventional practice) obtained by the student. This is usually arrived at after the student's performance in a Course, which includes both CIE and SEE, is assessed and raw score (marks) for the total are awarded to begin with, followed by grouping of all the students at a Course under different grading levels, as above.
- (c) There are different approaches possible for the grouping of raw score (marks). But, the most useful one is based on the computation of statistical measures like mean and standard deviation of the raw score (marks) of all students attending a Course, to separate out the *letter grade* groups. This approach facilitates *relative grading* of the students, which has many advantages over the conventional *absolute grading*, like, freedom from the difficulty level of Question Papers used, absence of personal bias and influence of evaluation norms/standards adopted by the examiner. Hence, this approach shall be followed for awarding letter

grades against the raw score (marks) obtained by students at Autonomous Colleges under the University.

(d) **Relative Grading:** In the *relative grading* approach, statistical quantities, such as, mean (m) value and standard deviation (σ) for the raw score (marks) in (CIE + SEE) obtained by the students of a Course shall be evaluated first. And then, the range of marks for each letter *grade* shall be assigned as follows:

- 'F' grade: $< (m - 1\sigma)$;
- 'E' grade: $\geq (m - 1\sigma)$ but $< (m)$,
- 'D' grade: $\geq (m)$ but $< (m + 1\sigma)$;
- 'C' grade: $\geq (m + 1\sigma)$ but $< (m + 1.5\sigma)$;
- 'B' grade: $\geq (m + 1.5\sigma)$ but $< (m + 2.0\sigma)$;
- 'A' grade: $\geq (m + 2.0\sigma)$ but $< (m + 2.5\sigma)$;
- 'S' grade: $\geq (m + 2.5\sigma)$;

(e) **Absolute Grading:** While it is most appropriate to follow the system of *relative grading* at all the Autonomous Colleges, it is noticed that all of them need specific preparations to introduce this system. Hence, the Colleges have been given freedom to adopt either the *relative grading* or the *absolute grading* system in the initial years of *academic autonomy*.

- **Moving to Relative Grading:** it shall be necessary for such Autonomous Colleges adopting the *absolute grading* system in the initial years, to move to the *relative grading* system at the earliest. Such Colleges shall prepare a suitable time plan for this purpose, get the same approved by their respective Academic Councils and keep the University informed of this.

8.2 Grade Points:

(a) Depending on the *letter grades* assigned, a student earns certain *grade points*. As the *grading* system can have different *grade points*, like 5, 8 and 10, more number of points in the scale, will be necessary to provide a better resolution in the performance assessment. Moreover, all Autonomous Colleges under the University shall have to follow the same scale for uniformity in working. Hence, the Autonomous Colleges under

the University shall follow the 10-point grading system, as given in Tables 12-13 for *relative grading system* or *absolute grading system* as the case may be.

Table 12: Grade Points Scale For Relative Grading

Level	Out-standing	Excellent	Very Good	Good	Average	Poor	Fail
Grade	S	A	B	C	D	E	F
Grade Points	10	09	08	07	05	04	00

Table 13: Grade Points Scale for Absolute Grading

Level	Out standing	Excellent	Very Good	Good	Average	Poor	Fail
Grade	S	A	B	C	D	E	F
Grade Points	10	09	08	07	05	04	00
Score (Marks) Range (%)	≥ 90	$\geq 75, < 90$	$\geq 60, < 75$	$\geq 50, < 60$	$\geq 45, < 50$	$\geq 40, < 45$	< 40

- (b) The *grade points* given in Tables 12-13 help in the evaluation of *credit points* earned by the student in a Course as the *credit points* are equal to the number of credits assigned to the Course multiplied by the *grade points* awarded to the student in that Course. This shall be used in arriving at the *credit index* of the student for that semester, as it is the sum total of all the *credit points* earned by the student for all the Courses registered in that semester.
- (c) **Earning of Credit:** A student shall be considered to have completed a Course successfully and earned the *credits* if he/she secures an acceptable *letter grade* in the range S-E. *Letter grade 'F'* in any Course implies failure of the student in that Course and no *credit* is earned.

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- (d) **Transitional Grades:** The *transitional grades*, such as, 'I', 'W' and 'X' shall be awarded to a student in the following cases. These shall be converted into one or the other of the *letter grades* (S-F) after the student completes his/her Course requirements, including examinations:
- **Grade 'I':** Awarded to a student having satisfactory attendance at classes and meeting the passing standard at CIE in a Course, but remained absent from SEE for valid and convincing reasons acceptable to the College, like:
 - (i) Illness or accident, which disabled him/her from attending SEE;
 - (ii) A calamity in the family at the time of SEE, which required the Student to be away from the College;
 - **Grade 'W':** Awarded to a student having satisfactory attendance at classes, but withdrawing from that Course before the prescribed date in a semester under *faculty advice*;
 - **Grade 'X':** Awarded to a student having attendance $\geq 85\%$ and CIE rating ($\geq 60\%$) in a Course, but SEE performance observed to be poor, which could result in an overall F Grade in the Course (No 'F' grade awarded in this case but student's performance record maintained separately)
- (e) **Grade Card:** Each student shall be issued a *Grade Card* (or transcript) at the end of each semester. While this will have a list of all the Courses registered by a student in the semester together with their *credits*, the *letter grades* with *grade points awarded* and those with *grades 'I', 'W' and 'X'*, only those Courses registered for *credit* and having *grade points* shall be included in the computation of the student's performance, like *SGPA* and *CGPA*. and, the Courses taken for *audit* will not form part of this computation. The results of *mandatory courses*, which are of the *non-credit* type, shall also be reflected in the *Grade Card* as *PP (for Passed)* or *NP (for Not Passed)*. It may be noted that each UG student shall have to obtain the *grade PP* in each *mandatory course* to qualify for the Degree award by the University.
- (f) **Make-UP Examination:** The *Make Up Examination* facility shall be available to students who may have missed to attend

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the SEE of one or more Courses in a semester for valid reasons and given the 'I' grade. Students having the 'X' grade shall also be eligible to take advantage of this facility. The *Make Up Examination* shall be held as per dates notified in the Academic Calendar. However, it will be possible for an Autonomous College to hold this examination at any other time in the semester with the permission of its Academic Council. In all these cases, the standard of the *Make Up Examination* shall be the same as that of regular SEE for the Courses.

- (g) In the event of a student in his/her final semester failing in a Laboratory Course and/or in CIE of a Course, the student shall be given 'I' grade for such Course(s). In such a case, the concerned teacher may grant the student extra time not exceeding 12 weeks for completing the Course, with the concurrence of the Head of the Department and the Principal of College. If no such extra time is sought/granted, the concerned student shall have to re-register for the Course(s) in a succeeding semester and fulfill the requirements for the award of the Degree.
- (h) All the 'I' and 'X' grades awarded to the students shall have to be converted by the concerned teachers to appropriate letter grades and communicated to the College authorities within two days of the respective *Make Up Examinations*. Any outstanding 'I' and 'X' grades two working days after the last scheduled *Make Up Examinations* shall be automatically converted to 'F' grade.
- (i) All the 'W' grades awarded to the students shall be eligible for conversion to the appropriate letter grades only after the concerned students re-register for these Courses in a main(Odd/Even)/supplementary semester and fulfill the passing standards for their CIE and (CIE + SEE).

8.3 Grade Point Averages:

- (a) **SGPA and CGPA:** The *credit index* can be used further for calculating the Semester Grade Point Average (*SGPA*) and the Cumulative Grade Point Average (*CGPA*), both of which being important performance indices of the student. While *SGPA* is equal to the *credit index* for a semester divided by the total number of *credits* registered by the student in that semester, *CGPA* gives the sum total of *credit indices* of all the previous semesters divided by the total number of *credits* registered in all these semesters. Thus,

$$SGPA = \frac{\sum [(Course\ credits) \times (Grade\ points)] \text{ (for all Courses in that semester excluding transitional grades)}}{\sum [(Course\ credits)] \text{ (for all courses in that semester excluding transitional grades)}}$$

$$CGPA = \frac{\sum [(Course\ credits) \times (Grade\ points)] \text{ (for all Courses excluding those with F & transitional grades until that semester)}}{\sum [(Course\ credits)] \text{ (for all Courses excluding those with F & transitional grades until that semester)}}$$

- (b) **Illustrative Example:** An illustrative example given in Table 14 indicates the use of the above two equations in calculating *SGPA* and *CGPA*, both of which facilitate the declaration of academic performance of a student, at the end of a semester and at the end of successive semesters respectively. Both of them shall be normally calculated up to the second decimal position, so that the *CGPA*, in particular, can be made use of in rank ordering the students' performance of students in a class at an Autonomous College. If two students get the same *CGPA*, the tie should be resolved by considering the number of times a student has obtained higher *SGPA*; But, if it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A, B etc shall be taken into account in rank ordering of the students in a class.

Table 14: SGPA/CGPA Calculations: An Illustrative Example

Semester (Odd:I, Even:II)	Course No.	Credits	Grade	Grade Points	Credit Points	SGPA, CGPA
I	XX101	5:0:0	B	8	40	
I	XX102	3:2:0	W	-	-	
I	XX103	3:0:0	A	9	27	
I	XX104	0:1:1	F	0	00	
I	XX105	4:1:0	D	5	25	
I	XX106	5:0:0	E	4	20	
Total		20 (18*)			112	SGPA= 112/20 =5.60
II	XX107	3:1:1	C	7	35	
II	XX108	4:0:0	B	8	32	
II	XX109	3:0:0	D	5	15	
II	XX110	4:1:0	E	4	20	
II	XX111	2:1:1	A	9	36	
II	XX112	2:0:0	F	0	00	
II	XX113	0:2:0	B	8	16	
Total		25 (23*)			154	SGPA= 154/25 = 6.16 CGPA= 266/41 = 6.48
Supple- mentary	XX102	3:2:0	D	5	25	
Supple- mentary	XX104	0:1:1	C	7	14	
Supple- mentary	XX112	2:0:0	D	5	10	
Total		9			49	SGPA= 49/9 =5.43 CGPA= 315/50 =6.30

*Total No. of credits excluding those with 'F' and transitional grades. This is particularly important to keep track of the number of credits earned by a student up to any semester;

7. (c) **Vertical Progression:** It shall also be necessary to lay down uniform minimum standards for SGPA and CGPA together with the minimum number of *credits* to be earned in a semester for the *vertical progression* of students at all Autonomous Colleges under the University. This shall be used in facilitating the mobility of students from one College to another and also in avoiding any confusion among the students. The prescribed standards for *vertical progression* shall be as follows:

- Minimum Standard for CGPA = 5.0; (at the end of each academic year).
- Maximum Number of 'F' grades that can be carried at any point of time is 04

However, failure to secure a minimum CGPA = 5.0 at the end of any semester for the first time, shall attract a warning before approval of the student to continue in the following semester.

- **One Time Provision:** Considering that some Autonomous Colleges under the University had enabled their first year students to register for < 50 *credits* (prescribed average) during the year 2007-2008, the minimum number of *credits* required to be earned to qualify for *vertical progression* at the end of this academic year at such Colleges has been fixed as a special case, at 30 *credits*.

(d) **Award of Class:** Sometimes, it is necessary to provide equivalence of these averages, viz., SGPA and CGPA with the percentages and/or *Class* awarded as in the conventional system of declaring the results of University examinations. This shall be done by Autonomous Colleges under the University by prescribing certain specific thresholds in these averages for *Distinction, First Class and Second Class*, as in Table 15, which reproduces the approach of the Council for this purpose:

**Table 15: Percentage Equivalence of Grade Points
(For a 10-Point Scale)**

Grade Point	Percentage of Marks/Class (Grade Point - 0.75)x10
5.75	50 (Second Class)
6.25	55
6.75	60 (First Class)
7.25	65
7.75	70 (Distinction)
8.25	75

9. Other Academic Matters:

9.1 Choice Based Credit System:

- (a) It is necessary to implement a *Choice Based Credit System* for academic programmes at all the Autonomous Colleges under the University. This will be of considerable benefit to the students for developing their individual capabilities and talents and preparing themselves for exciting careers in the 21st century.
- (b) This makes it necessary for the Autonomous Colleges to provide for:
- Easy access to students (either in print or in electronic form) for the Schemes of Instruction, Syllabi and *Credit Structure* of all the programmes and the Courses being conducted, so as to assist them in course work planning;
 - Institutionalizing the conduct of course work by adopting a centralized time table for all the programmes at a College, with a view to assist the students in customizing their programmes and also optimizing its physical facilities;
 - Establishing a dynamic *Faculty Advisory System* at each College with 5-10 students assigned to an Advisor, for helping them in planning/implementing their course work in a flexible and effective manner and also monitoring them;

9.2 Time Schedules:

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- (a) **Academic Schedules:** It is necessary to specify various time schedules in the Academic Calendar of each Autonomous College to assist the students and also the faculty. These include, dates for registration of courses, dropping of courses and withdrawal from courses. This enables the students to be well prepared, minimize their chances of failure in CIE and/or SEE and take full advantage of the flexibility provided by the *credit system*. Here again, uniformity across the University shall be followed by the Colleges in the interest of the students.
 - (b) **Registration of Courses:** Each student of Autonomous College shall have to register for course work at the beginning of a semester. The permissible Course load to be either *average credits* (=25) in the 1st Semester of a programme or to be within the limits of minimum (=20) and *maximum* (=30) credits in each later Semester; A period of 2-3 days to be specifically assigned for this event in the Academic Calendar, for the students to seek faculty advice, discuss with the subject teachers and complete the formalities.
 - (c) **Dropping of Courses:** A specific period shall be fixed at each Autonomous College in the middle of a semester for this purpose and help review the students' performance in CIE by the Faculty Advisors, followed by the students having poor performance to be facilitated to *drop* the identified course(s) (up to the *minimum credits* specified for the semester) without being mentioned in the *Grade Card*. Such Courses to be re-registered by these students and taken up for study at a later time.
 - (d) **Withdrawal from Courses:** A specific period shall be identified at each Autonomous College towards the end of a semester to help review the students' performance in CIE by the Faculty Advisors, followed the students having poor performance to *withdraw* from identified course(s) (up to the *minimum credits* specified for the semester) with mention in the *Grade Card* (Grade 'W'). Such Courses to be re-registered by these students and taken up for study at a later time.

9.3 Temporary Withdrawal:

- (a) A student shall be permitted to withdraw temporarily from an Autonomous College under the University on grounds like, prolonged illness, grave calamity in the family or any other serious happening. The withdrawal shall be for periods which are integral multiples of a semester, provided that:
- The student applies to the College within at least 6 weeks of the commencement of the semester or from the date he/she last attended the classes, whichever is later, stating fully the reasons for such a withdrawal, together with supporting documents and endorsement of his/her guardian;
 - The College is satisfied of the genuineness of the case and that, even by taking into account the expected period of withdrawal, the student has the possibility to complete the programme requirements (e.g., UG: 200 *credits*) within the time limits specified by the University;
 - The student does not have any dues or demands at the College/University including tuition and other fees as well as library material;
- (b) A student availing of temporary withdrawal from an Autonomous College under the above provision shall be required to pay such fees and/or charges as may be fixed by the College until such time as his/her name appears on the Students' Roll List. However, it may be noted that the fees/charges once paid shall not be refunded.
- (c) Normally, a student will be entitled to avail of the temporary withdrawal facility only once during his/her studentship of the programme at the Autonomous College. However, any other concession for the concerned student shall have to be approved by the Academic Council of the College. Hence, the students shall be advised by the Principal of the Autonomous College to use this provision only in exceptional cases.

9.4 Termination from the Programme:

A student shall be required to withdraw from the programme and leave the Autonomous College on the following grounds:

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- Failure (Getting F Grade) and not passing a Course/ Subject to earn credits for the same, in spite of three attempts;
- Failure to secure a *CGPA* ≥ 5.00 on three consecutive occasions to lead the student being asked to discontinue the programme and leave the College (*However, failure to secure a CGPA ≥ 5.00 at the end of any semester for the first time, to attract a warning before approval of the student to continue in the following semester.*);
- Absence from classes for more than six weeks at a time in a semester without leave of absence being granted by competent authorities;
- Failure to meet the standards of discipline as prescribed by the Autonomous College from time to time;

9.5 Students' Feedback:

- (a) It is necessary for Autonomous Colleges under the University to obtain feedback from students on their course work and various academic activities conducted under the *credit system*. For this purpose, suitable feedback forms shall be devised by the Colleges and the feedback obtained from the students regularly in confidence, by administering the feedback form in print or on-line in electronic form.
- (b) The feedback received from the students shall be discussed at various levels of decision making at the Autonomous Colleges and the changes/ improvements, if any, suggested shall be given due consideration for implementation at the Colleges.

9.6 Graduation Ceremony:

- a) Each Autonomous College shall have its own annual *Graduation Ceremony* for the award of Degrees to students completing the prescribed academic requirements in each case, in consultation with the University and by following the provisions in the Statute.
- b) Autonomous Colleges will be able to institute Prizes and Awards to meritorious students, for being given away annually at the *Graduation Ceremony*. This will greatly encourage the students to strive for excellence in their academic work.

10. Other Issues:

10.1: The quality and standard of engineering professionals are closely linked with the level of the technical education system. As it is now recognized that these features are essential to develop the intellectual skills and knowledge of these professionals for being able to contribute to the society through productive and satisfying careers as *innovators, decision makers and/or leaders* in the global economy of the 21st century, it becomes necessary that certain improvements are introduced at different stages of their education system. These include:

- Selective admission of students to a programme, so that merit and aptitude for the chosen technical branch or specialization are given due consideration;
- Faculty recruitment and orientation, so that qualified teachers trained in good teaching methods, technical leadership and students' motivation are available;
- Instructional/Laboratory facilities and related physical infrastructure, so that they are adequate and are at the contemporary level;
- Access to good library resources and Information & Communication Technology (ICT) facilities, to develop the student's *mind* effectively;
- Adequate opportunities and facilities for the development of the student's *heart*, so that the professionals are conscious of social/other responsibilities.

10.2: These requirements make it necessary for the Autonomous Colleges to introduce improvements in their operations, like:

- Teaching-learning process on modern lines, to provide *Add-On Courses* for *audit/credit* in a number of peripheral areas useful for students' self development;
- Life-long learning opportunities for faculty, students and alumni, to facilitate their dynamic interaction with the society, industries and the world of work; and,
- Generous use of ICT and other modern technologies in every day activities.

11. Annual Returns:

Each Autonomous College under the University shall be required to submit (within four weeks of completing an academic year) an *Annual Return* to the University in the prescribed proforma annexed herewith, providing information on the observance of the above **Guidelines** during the previous academic year.

12. Interpretation:

Any question as to the interpretation of these **Guidelines** shall be decided by the University, whose decision shall be final and binding on the Autonomous Colleges in the matter. The University shall also have the power to issue clarifications to remove any doubt, difficulty or anomaly, which may arise in regard to the implementation of these **Guidelines**.

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**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
PROFORMA FOR ANNUAL RETURNS
(TO BE SUBMITTED BY EACH AUTONOMOUS COLLEGE)**

(This Proforma has to be filled in and returned to Registrar, VTU, Belgaum, within four weeks of completion of the previous academic year, both by e-mail and hard copy)

1. General:

(a) Name and Address of the College:

(b) Name of the Principal:

(c) E-mail ID: Tel. No.: Fax No.:

(d) Autonomy granted for *(Please tick mark, whichever is applicable)*:

- UG only:
- UG and PG:
- List of Programmes covered (Use only approved abbreviations):
- New Programmes launched during the year, if any:

(e) Academic Year Covered:

(f) Date of the Return:

2. Information on Students/Courses:

(a) Total No. of *students* admitted in the Autonomous Programmes:

- UG Level:
Approved Intake: _____

Year 1	Year 2	Year 3	Year 4	Year 5

- PG Level:
Approved Intake: _____

Year 1	Year 2	Year 3

(b) Total No. of Courses/Credits offered in the Autonomous Programmes:

• **UG Level:**

Main Semester 1 (Odd) Courses/Credits	Main Semester 2 (Even) Courses/Credits	Supplementary Semester Courses/Credits

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Date on which syllabus revision, if any, was approved by the Academic Council: _____

• **PG Level**

Main Semester 1 (Odd) Courses/Credits	Main Semester 2 (Even) Courses/Credits	Supplementary Semester Courses/Credits

Date(s) on which syllabus revision, if any, was approved by the Academic Council: _____

3. Information on Academic Calendar:

Semester	Starting Date	Dates of SEE	Date of SEE Results	Closing Date	Recess Dates
Odd UG PG					
Even UG PG					
Supplementary UG PG					

Dates on which *Make-Up examinations*, if any, were conducted:

Odd Semester _____

Even Semester _____

Supplementary Semester _____

4. Information on Students' Performance:

(Please include additional columns in the following tables, if required.)

(a) UG- Odd Semester:

Course No.						
No. of Students Registered						
No. of Students Dropping						
No. of Students Not admitted to SEE						
No. of Students Falling						
No. of Students with Transitional Grade: I W X						
% of Students Awarded Grade: S A B C D E						

(b) UG-Even Semester:

Course No.						
No. of Students Registered						
No. of Students Dropping						
No. of Students Not admitted to SEE						
No. of Students Failing						
No. of Students with Transitional Grade: I W X						
% of Students Awarded Grade: S A B C D E						

7.

(c) UG-Supplementary Semester:

Course No.						
No. of Students Registered						
No. of Students Dropping						
No. of Students Not admitted to SEE						
No. of Students Failing						
No. of Students with Transitional Grade: I W X						
% of Students Awarded Grade: S A B C D E						

(a) Method of Grading employed(Please tick mark, whichever is applicable);

- Absolute Grading:
- Relative Grading:

(b) No. of UG students year wise, detained from vertical progression, if any: _____

(c) No. of UG students failing in mandatory courses, if any: _____

(d) PG-Odd Semester:

7.

Course No.						
No. of Students Registered						
No. of Students Dropping						
No. of Students Not admitted to SEE						
No. of Students Failing						
No. of Students with Transitional Grade: I W X						
% of Students Awarded Grade: S A B C D E						

(e) PG-Even Semester:

Course No.						
No. of Students Registered						
No. of Students Dropping						
No. of Students Not admitted to SEE						
No. of Students Failing						
No. of Students with Transitional Grade: I W X						
% of Students Awarded Grade: S A B C D E						

(f) PG-Supplementary Semester:

Course No.						
No. of Students Registered						
No. of Students Dropping						
No. of Students Not admitted to SEE						
No. of Students Failing						
No. of Students with Transitional Grade: I W X						
% of Students Awarded Grade: S A B C D E						

7.

(g) Method of Grading employed (Please tick mark, whichever is applicable):

- Absolute Grading:
- Relative Grading:

(h) No. of PG students year wise, detained from vertical progression, if any:

5. **If Supplementary Semester is not arranged**, describe the method followed at the College to enable students with *dropped, withdrawn failed courses and/or any other criteria*, to meet the credit requirements for vertical progression:

6. **Any other relevant information** on the functioning of autonomy at the College:

CERTIFICATE:

7.

It is certified that the information provided above is true to the best of my knowledge and belief. If required, the records maintained at the College will be made available for the scrutiny of University Authorities.

Place:

Date :

Signature of the Principal

Seal of the College

7.