



पं.रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ.ग.)

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रायपुर, दिनांक 25/10/2021

// अधिसूचना //

विश्वविद्यालय विद्या परिषद की स्थायी समिति की बैठक दिनांक 07.08.2021 को कार्यपरिषद् की बैठक दिनांक 10.08.2021 के पूरक विषय सूची के पद क्रमांक-01 पर लिए गए निर्णयानुसार Regulation No. 161 (Revised) Bachelor of Vocational (B.Voc.) Renewable Energy Technology & Management अनुमोदित किया गया है जो कि निम्नलिखित है :-

REGULATION NO 161 (Revised)

REGULATIONS FOR THE DEGREE OF BACHELOR OF VOCATION PROGRAMME OF

PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR

EFFECTIVE FROM THE ACADEMIC YEAR 2021-22

1. INTRODUCTION

Regulations for providing Skill Based Education under National Skills Qualifications Framework for Bachelor of Vocation (B.Voc) Programme in Renewable Energy Technology & Management (RETM) under Faculty of Technology at Pt. Ravishankar Shukla University Raipur. This regulation will supersede Regulation 161 of the University.

2. PREAMBLE

The University Grants Commission (UGC) has launched a scheme on skills development based higher education as part of university education, leading to Bachelor of Vocation (B.Voc.) degree with multiple exits such as Diploma / Advanced Diploma under the NSQF. The B.Voc. programme is focused on universities and colleges providing undergraduate studies which would also incorporate specific job roles and their NOSs along with broad based general education. This would enable the graduates completing B.Voc. to make a meaningful participation in accelerating India's economy by gaining appropriate employment, becoming entrepreneurs and creating appropriate knowledge.

3. PROGRAMME OBJECTIVES

The B. Voc. courses are designed with the following objectives:

- To provide judicious mix of skills relating to a profession and appropriate content of General Education.
- To ensure that the students have adequate knowledge and skills, so that they are work ready at each exit point of the programme.
- To provide flexibility to the students by means of predefined entry and multiple exit points.
- To integrate NSQF within the undergraduate level of higher education in order to enhance employability of the graduates and meet industry requirements.

(e) To provide vertical mobility to students coming out of 10+2 with vocational subjects.

4. NATIONAL SKILLS QUALIFICATIONS FRAMEWORK

The National Skills Qualifications Framework (NSQF) is a competency-based framework that organizes qualifications according to a series of knowledge, skills and aptitude. The NSQF levels, graded from one to ten, are defined in terms of learning outcomes which the learner must possess regardless of whether they are obtained through formal, non-formal or informal learning. National Occupational Standards (NOS) are statements of the skills, knowledge and understanding needed for effective performance in a job role and are expressed as outcomes of competent performance. The NOSs and QPs for each job role corresponding to each level of the NSQF are being formulated by the respective Sector Skill Councils (SSCs) set up by National Skill Development Corporation (NSDC) with industry leadership. The curriculum which is based on NOSs and Qualification Pack (QPs) would comply with NSQF.

5. B.VOC. ADVISORY COMMITTEE

A University level committee set-up for effective governance and coordination of the courses under the B.Voc. Scheme. Monitoring, Evaluation & Updating of the curriculum needs to be done periodically in consultation with industry keeping in view of their requirements & changes in NOSs. The University must incorporate this as a continuous & dynamic process in-built in their system through an advisory committee for vocational Course. At the **university level**, the conduct of such programmes shall be monitored by an Advisory Committee that shall be constituted as under:

S.NO.	ADVISORY COMMITTEE	POSITION
1.	Vice Chancellor or his Nominee	Chairperson
2.	One Academician in the relevant field nominated by the Vice Chancellor	Member
3.	Representative(s) of relevant Sector Skill Council	Member
4.	Representative of industries relevant to specialization	Member
5.	Representative(s) of the affiliating university	Member
6.	Director/Nodal Officer of the respective B.Voc. Programme	Member- Secretary

6. CONDITIONS FOR ADMISSIONS

(a) Eligibility

- i. The admission to B.Voc. programme will be as per the rules and regulations of the University for Admissions. The eligibility criteria for admission to this B.Voc. programme shall be 10+2 from a recognized board.
- ii. The reservation of seats shall be as per Chhattisgarh Government Notification issued from time to time and as per the rules of the Pt. Ravishankar Shukla University, Raipur
- iii. The eligibility criteria for admission shall be as announced by the University from time to time. Other conditions will be as laid down in admission policy in prospectus of the University.
- iv. There shall be no age bar for admission in the skill-based certificate /diploma/ degree programmes under NSQF.

- i. While deciding criteria for admission into any particular trade, the University will consider students having background in relevant stream at 10+2 level.

(b) Admission

- i. For admission to B.Voc. Semester-I, a candidate must have to successfully complete the +2 level of schooling or its equivalent in relevant stream from a recognized Board/ University/NOS and should secure credentials or qualified through the University **Entrance Examination** /Examination consisting of Aptitude Test/Group Discussion/Personal Interview or through Counseling by the University/College.
- ii. There may be three types of candidates who can be given admission to first semester of skill-based courses under NSQF:
Category – 1: students already acquired NSQF certification Level 4 in a particular industry sector and opted admission in the skill based courses under NSQF in the institutions recognized under Community Colleges / B.Voc Degree programme / Deen Dayal Upadhyay KAUSHAL Kendras in same trade with job role for which he /she was previously certified at school level.
Category – 2: students who have acquired NSQF certification Level 4 but may like to change their trade and may enter into skill-based courses in a different trade.
Category – 3: students passed 10+2 examination with conventional schooling without any background of vocational training.
- iii. **Admission to Diploma Holders:** Diploma holders (after 10+2) in the parent course, approved by the University, who satisfy eligibility criteria can be admitted to the Advance Diploma (3rd semester) based on the availability of the seats and shall be under the sole discretion of the Vice Chancellor of the University College/ B. Voc. Consortium.
- iv. The students can be admitted only to the first semester (except for diploma holders). No student shall be admitted directly to third and fifth semester in any circumstance except for diploma holders. Diploma holder may be admitted directly to third semester (but not to 5th Semester directly) as mentioned above. In any circumstance there shall be no direct admission to fifth semester.
- v. In case where number of available seats is less and candidates secure same marks (percent) at the qualifying level examination, the admission of the candidate will be based upon securing higher marks in High School or equivalent examination.
- vi. In case of any matter relating to the Under-Graduate admissions, the decision of the Admission Committee/Vice-Chancellor, Pt. Ravishankar Shukla University, Raipur shall be final.

7. DURATION OF THE PROGRAMME

- (a) A student is normally expected to complete the Certificate/Diploma/Advance Diploma/B.Voc Programme in Six months/1 Year/2 year/3 year respectively but a student has to complete the entire programme ordinarily within a maximum period of 1 year, 2 years, 4 years and 6 years for Certificate, Diploma, Advance Diploma and B. Voc. degree, respectively from the session of first admission.

- 8. MEDIUM OF INSTRUCTION:** The medium of instruction and examination shall be English and Hindi.

9. LEVELS OF AWARDS

B.Voc. is programme with multiple exits. Students may exit after six months with certificate (NSQF Level 4) or may continue for diploma or advance diploma level courses.

I. Following table shows the various certificates and their duration.

NSQF LEVEL	SKILL COMPONENT CREDITS	GENERAL EDUCATION CREDITS	TOTAL CREDITS FOR AWARD	NORMAL DURATION	EXIT POINT / AWARDS
4	18	12	30	One Semester	Certificate
5	36	24	60	Two Semester	Diploma
6	72	48	120	Four Semester	Advanced Diploma
7	108	72	180	Six Semester	B.Voc. Degree

II. The Curriculum shall be approved by the Board of Studies (BoS) and Academic Council of the University. The Universities where BoS for Vocational subjects has not yet been constituted, the curriculum may be considered by the BoS in allied subject area or an ad-hoc BoS may be constituted till the time regular BoS is notified in the university. The BoS should consider the programme-wise curriculum based QP for skill component and relevant general education subjects i.e. the curricula for programmes in one broad subject area may vary from institution to institution in case the different progressive QPs are mapped with the programmes being offered. The choice of different progressive job roles for a course may also be enabled under CBCS.

9. ELIGIBILITY OF DEGREE:

The duration of the B.Voc. course in Renewable Energy Technology & Management under faculty of Technology will be six semesters in three Academic Sessions as per Academic Calendar of the University. This course has a provision for multi-point exit system. The certification will lead to Certificate (After Six months)/ Diploma (After I Year)/Advanced Diploma (After II year)/ B.Voc (Degree) (After III Year)/ in the specialization of Vocational Area.

11. BOARD OF STUDIES & COURSE STRUCTURE

- The University will constitute appropriate BoS / adhoc BoS for the courses to consider and approve the course of study / curriculum prepared by the institution in consultation with the Sector Skill Councils and relevant industry partners. The industry representatives and Sector Skill Councils representatives should be an integral part of the academic bodies of the university/colleges.
- Separate BOS will be constituted, with the provision of a member from industry/SSC/ Professor of each sector will be attached to the Board of studies of the parent subject as suggested by UGC. The skill component will be decided with the help of concerned Sector Skills Councils. The BOS shall be responsible for reviewing and approving the syllabus and provide suggestions in curriculum.
- For the skill component, the model curriculum developed by the concerned Sector Skill Councils, wherever available, may be adopted or adapted in consultation with the industry partners. Wherever the curriculum is not available, the same may be developed in consultation with the relevant Sector Skill Councils and industry partners. While doing so,

the institutions may work towards aligning the curriculum with the National Occupational Standards being developed by the respective/allied Sector Skill Councils. This would promote national and global mobility of the learners, as well as higher acceptability by the industry for employment purposes.

- (d) The practical / hands-on portion of the skills component of the curriculum shall be transacted in face to face mode. The skill component of the programmes will conform to the QPs/NOSs
- (e) The general education component should adhere to the university / collegiate education norms and shall be decided by the concerned Board of Studies. It should lay emphasis on offering courses which provide holistic development.
- (f) **Course Code:** Each Course shall have a unique alphanumeric code number, which includes the abbreviation of subject component (GEC for General education component and SDC for Skill Development Component), the Semester number (1 to 6) in which the course is offered, abbreviation for subject and serial number of the courses.
- (g) The Curriculum shall be approved by the Board of Studies (BoS) and Academic Council of the University. The Universities where BoS for Vocational subjects has not yet been constituted, the curriculum may be considered by the BoS in allied subject area or an ad-hoc BoS may be constituted till the time regular BoS is notified in the university. The BoS should consider the programme-wise curriculum based QP for skill component and relevant general education .
- (h) The curriculum in each of the semester/years of the programme(s) will be a suitable mix of general education and skill development components. Skill component of the courses shall have a minimum of 60% of the total credits and it can go upto a maximum of 70% of the total credits, and the balanced credits shall be of general education component.

12. REGISTRATION/RE-REGISTRATION

Every candidate should register for all subjects of the Semester End examinations of each semester. A candidate who does not register will not be permitted to attend the Semester - End examinations; He / she shall not be permitted to attend the next semester. A candidate shall be eligible to register for any higher semester, if he/she has satisfactorily completed the course of study and registered for the examination. He/she should register for the semester at the start of the semester before the stipulated date. University will notify the starting and closing dates for each semester.

13. GENERAL INSTRUCTIONS:

- i. The admission to the B.Voc Courses shall be governed in accordance and provisions with the Rules/ Directives of UGC/relevant Regulatory Body or any other competent Authority of the Govt. of India/ State Government as amended time to time.
- ii. B.Voc degree is recognized at par with other U.G Programme approved by the Pt. Ravishankar Shukla University, Raipur
- iii. The relaxation in eligibility conditions, age and reservation etc. shall be in accordance with the Rules/ Directives of UGC/relevant Regulatory Body or any other competent Authority of the Govt. of India/ State Government as amended time to time and with the approval of Vice Chancellor.
- iv. Mobility of Credits earned by the students from GIAN (Global Initiative of Academic Networks) courses/ MOOCs (Massive Open Online Courses)/ SWAYAM (Study Webs of Active – Learning for Young Aspiring Minds)/ Swachh Bharat Internship Programme/ etc. shall be credited in accordance with the provisions made under the respective

schemes, as amended from time to time; subject to compatibility of course content & assessment process with the prior approval of the Board of Studies/ School Board of the concerned department.

- v. For matters not covered in this specific regulation, General rules and regulations of Pt Ravishankar Shukla University, Raipur, regarding specific courses shall be applicable.

In other matters Vice Chancellor of Pt Ravishankar Shukla University, Raipur shall be competent to take any decision which shall be final.

14. ATTENDANCE

Ordinarily, a minimum of 75 % attendance is a must for any candidate to qualify for the end semester examinations. However, on genuine grounds to be duly supported by documentary evidences, the Vice-Chancellor may condone a maximum of 5% the stipulated attendance if they deem it fit and reasonable to do so in their wisdom.

15. ASSESSMENT OF STUDENTS

Assessment of students for each subject will be done by internal continuous assessment and Semester End examinations. This dual mode assessment will be applicable to both Theory and Practical courses except for internship and project. Total marks in theory course reflect 80 marks external and 20 marks internal assessments. The mark division for practical courses is 20 marks internal and 80 marks external. For internship and project, there is no internal assessment.

(a) Internal

Internal assessment shall be conducted throughout the semester. It shall be based on internal examinations, assignments (such as homework, problem solving, group discussions, quiz, literature survey, seminar, team project, software exercises, etc.) as decided by the faculty handling the course, and regularity in the class. Assignments of every semester shall preferably be submitted in Assignment Book, which is a bound book similar to laboratory record.

The mark distribution to award internal continuous assessment marks for theory subject should be as follows:

ASSESSMENT	MARKS
Test papers (minimum two, best two out of three is preferred)	10
Assignments (minimum two) such as home work, problem solving, group discussions, quiz, literature survey, seminar, term project etc.	5
Regularity in the class	5

The mark distribution to award internal continuous assessment marks for practical subject should be as follows:

ASSESSMENT TYPE	MARKS
Evaluation in the lab of skill/performance	20
[Practical record files = 15 Marks & Regularity = 05 Marks]	

- i. No candidate will be permitted to attend the end semester practical examination unless he/she produces certified record of the laboratory.
- ii. Full credit for regularity in the class can be given only if the candidate has secured minimum 85% attendance in the subject. Attendance evaluation for each course is as follows:

ATTENDANCE	MARKS
85% and Above	5
80 to 84.99%	4
75 to 79.99%	3
70 to 74.99%	2
65 to 69.99 %	1

(b) External

Semester end examinations for theory and practical courses will be conducted by the University. There shall be University examinations at the end of each semester for both theory and practical. Failed or ATKT candidates will have to appear for the Semester-End examinations along with regular students.

16. Assessment of Skill Component

The Skill component of the course will be generally assessed by the respective Sector Skill Councils or the experts/ Industry partners appointed by University. In case, there is no Sector Skill Council for a specific trade, the assessment may be done by an allied Sector Council or the Industry partner. Further if Sector Skill Council in concerned / relevant trade has no approved QP which can be mapped progressively or due to any other reason, if the SSC expresses its inability to conduct the assessment or cannot conduct the skill assessment in stipulated time frames as per academic calendar, the institutions may conduct skill assessment through a **Skill Assessment Board** by 'Certified Assessors' as per the provisions enumerated in MHRD Skill Assessment Matrix for Vocational Advancement of Youth (SAMVAY).

17. Internship and Project

A project shall be an integral part of the B. Voc. Programme and shall have to undertaken by each student in the sixth semester of the programme. Internship and the major project should be carried out in the industry. The report of the project shall have to be submitted to the Department in duplicate before the completion of the sixth semester The Evaluation process follows 100% external assessment.

- i. There will be internship/minor project at the end of 2nd and 4th semesters and a major project/internship for the whole sixth semester. The students should be encouraged for summer internship.
- ii. Every student will be assigned an internal guide, allotted from the parent department concerned or an expert available in the University appointed by the Director, Skill Development Center or Course Coordinator.
- iii. An evaluation team is to be constituted for conducting the evaluation. The team consists of external examiner, allotted by the university from the approved examination panel, representative from the industry and a faculty or with the help of Sector Skill Council.

iv. Mark distribution for Project/internship assessment.

DISTRIBUTION OF MARKS	MARKS %
Content and relevance of Dissertation	60%
Viva	20 %
Presentation	20%

18. CREDIT SYSTEM

- Each subject shall have a certain number of credits assigned to it depending upon the academic load and the nature and importance of the subject. The credit associated with each subject will be shown in the prescribed scheme and syllabi.
- Each course shall have an integer number of credits, which reflects its weightage.
- One Credit would mean equivalent of 15 periods of 60 minutes each, for theory, workshops/IT and tutorials.
- For internship/field work, the credit weightage for equivalent hours shall be 50% of that for lectures/workshops.
- Each course is evaluated by assigning marks with a letter grade that course by the method of indirect grading as per ordinance/regulations of University.
- Appearance for Internal Assessment and End Semester Evaluation are compulsory and no grade shall be awarded to a candidate if she/he is absent for Internal Assessment / End Semester Evaluation or both.
- A student obtaining Grade F shall be considered failed and will be required to reappear in the examination.
- Computation of SGPA and CGPA:** The CGPA and SGPA will be computed as per the provisions of revised Regulation 149 and Ordinance 170 of the University.

19. LEARNING HOURS

Learning hours/ credit allocation needed for completion shall be as per NSQF as given in table:

QUALIFICATION	EQUIVALENCE	SKILL CERTIFICATION LEVEL	COMPETENCY BASED VOCATIONAL SKILL BUILDING (IN HRS) APPROX*	GENERAL LEARNING (IN HRS) APPROX.*	TOTAL HRS
Year 1	Diploma	5	550	450	1000
Year 2	Advance Diploma	6	600	400	1000
Year 3	B.Voc.	7	750	250	1000

* +/- 50 flexibility on the suggested numbers of hrs.

20. RULES AND REGULATIONS FOR EXAMINATION

- There shall be examination at the end of each semester as per scheme of examination and each student shall have to appear in all theory papers (Modules) and practical examinations/ workshop practices, industrial training and project work, if applicable as prescribed in the syllabi.
- Each semester, the maximum marks will be 1000 or as decided by respective BOS.
 - For Certificate in respective trade total marks will be 1000.

- ii. For Diploma in respective trade, the maximum total marks will be 2000.
- iii. For Advance Diploma in respective trade, the maximum total marks will be 4000.
- iv. For B Voc in respective trade, the maximum total marks will be 6000.

21. PASSING CRITERIA AND REAPPEARANCE OF A CANDIDATE

- (a) Every candidate thus admitted shall pursue regularly the prescribed courses in each semester successively. The degree/diploma shall be awarded to those candidates who have obtained at least 40 % marks in cumulative aggregate in theory and practical courses separately and a minimum of 20% qualifying marks in each theory course, 40% in Practical course and a minimum of 50 % qualifying marks in the Project/internship.
- (b) Candidates failing to appear or securing less than 40% aggregate or obtaining less than 20% marks in any of the theory course of semester examinations shall be allowed to pursue the courses for the next following semester as per **Allowed to Keep Terms (ATKT) provisions** and to appear at the examination simultaneously in the course for that semester and any course of the previous semester, which he/she has not cleared. Failure in all the theory papers shall have to re-appear in the same papers. A.T.K.T. provision shall be in not more than four courses of one semester & maximum three attempts only i.e. (1 main + 2 A.T.K.T.). The minimum marks required to pass the sixth semester shall be 50 % in project. Failure to secure 40% aggregate or to obtain qualifying marks of 20% in each theory course in two successive semester examinations, in addition to main examination, shall if so facto disqualify a candidate for admission to the next higher semester or for re-examination.
- (c) However, a candidate who secured the minimum marks to pass in each paper but has not secured the minimum marks to pass in aggregate will reappear in any two of the theory papers of his/her choice in the concerned semester in order to secure the minimum marks prescribed to pass the semester in aggregate.
- (d) The candidate shall appear only in the theory part and his/her previous marks in practical/project/ dissertation will be carried forward and accounted for if/she has already cleared the practical/ project/ dissertation.
- (e) For Project/internship, the minimum for a pass shall be 50% of the total marks assigned to the respective examination. A student who does not secure this pass marks in a subject will have to repeat the respective subject. The result of the candidate shall be declared on the basis of performance in the semester examination. The conversion of raw scores into absolute grades shall be done as per the rules of the Pt. Ravishankar Shukla University, Raipur.
- (f) **Allowed to Keep Terms (ATKT):** The examination of ATKT candidates will conducted as per the provisions of revised Regulation 149 of PRSU.

22. INCLUSION OF GRADE & CREDIT POINTS IN THE MARK SHEET OF STUDENTS

- (a) The grace marks, if eligible, will be awarded prior to the application of credit points and "description" modified manually.
- (b) A student has to earn minimum number of prescribed credits in each Semester in their respective subject.
- (c) An overall letter grade (Cumulative Grade) for the entire programme shall be awarded to a student depending on her/his CGPA. The student shall be declared successful and will be awarded CGPA/Division through conversion of Percentage of Marks to Grade Point in 10 Point Scale in the following manner.

PERCENTAGE OF MARKS	GRADE POINT	Letter Grade	DESCRIPTION
90 and above	10	O	First/Outstanding
80 to below 90	9	A +	First/Excellent
70 to below 80	8	A	First/Very Good
60 to below 70	7	B+	First/Good
50 to below 60	6	B	Second/Fair
40 to below 50	5	P	Pass/Adequate
Below 40	0	F	Fail
Absent(Ab)	0	F	Fail

- (d.) The provision of revaluation will not be available; however, a student may apply for re-taling.
- (e) A student who has been admitted to any semester but fails to fill up examination form or debarred to take examination due to short attendance or any other appropriate reason then he/she shall have to appear at that examination in the following semester.
- (f) The CGPA/SGPA calculation and other matter not covered in his regulation shall be governed by the relevant Ordinance and other provisions of the University.

23. DIVISION ALLOCATION

The division for Degree of Bachelor of Vocation in RETM under faculty of Technology shall be awarded after VI semester examination and shall be based on the aggregate marks obtained by the candidates at his/her successful attempts at the I, II, III, IV, V, VI semester examination i.e. full examination of B. Voc. However, the division from direct entry to second year shall be based on the aggregate marks obtained by the candidates at his/her successful attempt at III, IV, V, VI semester examination.

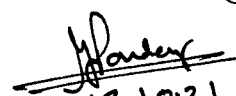
There shall be only three divisions as follows:

- An aggregate of 75% or above - I Division with Distinction
- An aggregate of 60% or above - I Division
- An aggregate of 45% or above - II Division
- An aggregate of 40 % or above - III Division

24. TRANSITORY PROVISION

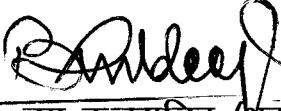
Notwithstanding anything contained in these regulations, the Vice-Chancellor has the power to provide by order that these regulations shall be applied to any program with necessary modification.

कार्यपरिषद के आदेशानुसार,


13.10.21
कुलसचिव

प्रतिलिपि :-

1. अध्यक्ष, समस्त अध्ययनशाला
2. प्राचार्य, संबंध समस्त महाविद्यालय
3. संकायाध्यक्ष, समस्त संकाय
4. डॉ. संजय तिवारी, आचार्य, इलेक्ट्रॉनिक्स अध्ययनशाला, पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर
5. डॉ. निनाद बोधनकर, आचार्य एवं अध्यक्ष, भू-विज्ञान अध्ययनशाला, पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर
6. समस्त विभागीय अधिकारी, विश्वविद्यालय प्रशासनिक भवन
7. कुलपति जी के सचिव/कुलसचिव के निज सहायक, पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर को सूचनार्थ।


उप कुलसचिव (अका.)