NATIONAL VOCATIONAL EDUCATION QUALIFICATION FRAMEWORK [NVEQF]

GENERAL SCHEMA

(PRINTING AND PUBLISHING)

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

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Introduction

All India Council for Technical Education, (AICTE), the apex body for making and maintaining the norms of Technical Education in the country has framed a National Vocational Education Qualification Framework (NVEQF) for the polytechnics and Engineering Colleges.

NVEQF is introduced by Government in order to formally integrate vocational education together with its current conventional educational streams across school and higher education space and provide an opportunity and incentive to students to explore a large universe of opportunity.

It is important that a Vocational Educational Qualification Framework is in place that allow cross mobility of standards and their absorption in Industry with certain skill gained over a fixed period of time or their seamless integration into higher learning that enable them to acquire formal degree and higher skill so that they perform higher level jobs in Industry.

Rational of NVEQF

- **Across sectors and across the country**. The Initiative addresses skills in all sectors and areas.
- **Short duration, focused and modular programs** allow for quick and effective delivery of skills training. This allows a person to become productive relatively quickly at younger age. The modular approach also means that he can add on to his portfolio of skills for vertical and horizontal progression. At the same time the content is focused to allow for dissemination of only relevant skill. The duration is decided taking into account the objectives and content of the constituent programs. Amongst other things it would be based on Employer-Employee needs, availability of Infrastructure and Equipment, Characteristics of the Training Content, etc
- Programmes of varied durations ranging from **short courses** to more protracted ones, depending on the skill and the requirements at particular ciertificate level.
- The practical hands on skills for **delivery in the local language,** thereby allowing for provision of local trainers, congenial and effective delivery.
- The delivery of the program is flexible it could be **full day, half day or week end programs.** This would again be decided on availability of candidate's spare time, availability of training infrastructure and spare capacities, etc.
- Training could be delivered through a **network of centres** that could include Technical and Non-Technical Schools and Colleges industry centres, Training Organizations, Services, In addition, for practical training, laboratories of industries could be used as Training Sites for skill enhancement, where required.

Certification Level	Normal Qualification	Case I		Case II	
		Vocational Qualification	Certifying Body	Vocational Qualification	Certifying Body
7	3rd yr bachelors	Advanced Diploma	Board of Technical Education	Degree	University
6	2nd yr bachelors				
5	1st yr bachelors	Diploma	Board of Technical Education		
4	Higher Secondary School Grade XII			Grade XII	School Board
3	Higher Secondary School Grade IX			Grade XI	School Board
2	Secondary School Grade X	Grade X	School Board	Grade X	School Board
1	Secondary School Grade IX	Grade IX	School Board	Grade IX	School Board

Framework options for a student

GENERAL SCHEME OF STUDIES

There shall be Seven Certificate level; each level will have following distribution for General and Vocational education -

Certificate Level	Contact Hours for Vocational & General Education	
	Vocational	**Academic**
1	200-300	700-800
2	200-300	700-800
3	300-400	600-700
4	300-400	600-700
5	400-500	500-600
6	500-600	400-500
7	600-700	300-400

o Internal distribution of teching hours for each subjects to be done by concerned board/university as per the need
o For any clearification at level I to IV of General Content, Syllabus of C.B.S.E. may be refered
o The given contents are indicative one and concerned Boards/ University may make desirable   changes as per the local needs
o The evaluation of Vocational part shall be done by respective SKPs and shall award grades on five point scale.
o The concerned institutes shall forward the grade to Board/University for the purpose of issuing Level Certificate.

SKILL SECTORS/ SPECIALISATIONS AND AVAILABLE GENERAL CONTENT

Sector		Specialization	Available General Content
Printing and Publishing			Science
	1	Printing Technology	

NATIONAL VOCATIONAL EDUCATIONAL QUALIFICATION FRAMEWORK (NVEQF)
SECTOR: PRINTING & PUBLISHING

SPECIALIZATION: PRINTING TECHNOLOGY: NVEQF/P&P/PT/LI

CERTIFICATE LEVEL- I

S.NO	VOCATIONAL CONTENT (DETAIL CONTENT AT L_All_Vocational_Ed_Printing)	HRS.	S.NO	GENERAL CONTENT	HRS.
1.	OVERVIEW – THEORETICAL [GRAPHIC DESIGN/ COLOUR MANAGEMENT PRE-PRESS/COMPUTER TO PLATE/PRINTING/FINISHING]	40		**SUBJECT OF STUDIES** THE LANGUAGES WILL BE FROM THE FOLLOWING WITH THE FOLLOWING STRUCTURE **(ANY TWO)** HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KANNADA, KASHMIRI, MARATHI, MALAYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, LEPCHA, LIMBU, BHUTIA, SANSKRIT, ARABIC, PERSIAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN, SPANISH, NEPALI, TIBETAN AND MIZO, TANGKHUL AND BODO. **(DETAIL CONTENT AT L_1_Language)**	
			1.	**LANGUAGE I**	140
			2.	**LANGUAGE II**	140
2.	AT CLASSROOM [BASIC SCIENCE & TECHNOLOGY / PRINTING PROCESS]	60	3.	**MATHEMATICS** (DETAIL CONTENT AT L_1_General_Ed)	140
3.	PRACTICAL TRAINING AT FACTORY	68	4.	**SCIENCE** (DETAIL CONTENT AT L_1_General_Ed)	180
4.	SAFETY MEASURES EVALUATION	32	5.	**SOCIAL SCIENCE** (DETAIL CONTENT AT L_1_General_Ed)	180
	TOTAL VOC CONTENT	**200**		**TOTAL GENERAL CONTENT**	**780**

	GRAND TOTAL		980 HRS.	

SPECIALIZATION: PRINTING TECHNOLOGY: NVEQF/P&P/PT/LII

CERTIFICATE LEVEL- II

S.NO	VOCATIONAL CONTENT (DETAIL CONTENT AT L_All_Vocational_Ed_Printing)	HRS.	S.NO	GENERAL CONTENT	HRS.
1.	REVISION	20		**SUBJECT OF STUDIES** THE LANGUAGES WILL BE FROM THE FOLLOWING WITH THE FOLLOWING STRUCTURE **(ANY TWO)** HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KANNADA, KASHMIRI, MARATHI, MALAYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, LEPCHA, LIMBU, BHUTIA, SANSKRIT, ARABIC, PERSIAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN, SPANISH, NEPALI, TIBETAN AND MIZO, TANGKHUL AND BODO. **(DETAIL CONTENT AT L_2_Language)**	
			1.	**LANGUAGE I**	140
			2.	**LANGUAGE II**	140
2.	PRACTICAL AT WORKSHOP	120	3.	**MATHEMATICS** (DETAIL CONTENT AT L_2_General_Ed)	140
3.	THEORETICAL EVOLUTION	20	4.	**SCIENCE** (DETAIL CONTENT AT L_2_General_Ed)	180
4.	CORRUGATED BOX MANUFACTURING, BASIC POST PRESS FINISHING, MAINTENANCE, TESTING RAW MATERIALS, EVALUATION	90	5.	**SOCIAL SCIENCE** (DETAIL CONTENT AT L_2_General_Ed)	180
	TOTAL VOC CONTENT	**250**		**TOTAL GENERAL CONTENT**	**780**
	GRAND TOTAL			**1030 HRS.**	

SPECIALIZATION: PRINTING TECHNOLOGY: NVEQF/P&P/PT/LIII

CERTIFICATE LEVEL- III

S.NO	VOCATIONAL CONTENT (DETAIL CONTENT AT L_All_Vocational_Ed_Printing)	HRS.	S.NO	GENERAL CONTENT	HRS.
1.	REVISION	28		**SUBJECT OF STUDIES** **I&II TWO LANGUAGES OUT OF FOLLOWING** HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KASHMIRI, KANNADA, MARATHI, MALYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, SANSKRIT, ARABIC, PERSIAN, LIMBOO, LEPCHA, BHUTIA, MIZO, TANGKHUL, BODO, NEPALI, TIBETAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN AND SPANISH. **(DETAIL CONTENT AT L_3_Language)**	
			1.	**LANGUAGE I**	120
			2.	**LANGUAGE II**	120
2.	PRACTICAL AT WORKSHOP	162		**ANY THREE PAPERS OUT OF FOLLOWING** **(DETAIL CONTENT AT L_3_General_Ed_Science_Stream)**	
3.	PACKAGE PRODUCTION	16		MATHEMATICS	150
4.	PRESSROOM CONSUMABLES	16		PHYSICS	150
5.	NEWSPAPER PUBLICATION	16		CHEMISTRY	150
6.	CORRUGATED BOX MANUFACTURING	16		BIOLOGY	150
7.	SECURITY PRINTING	20		BIOTECHNOLOGY	150
8.	MAINTENANCE	20		ENGINEERING GRAPHICS	150
9.	VALUE ADDED FINISHING	20		AGRICULTURE	150

10.	THEORETICAL KNOWLEDGE	20		COMPUTER SCIENCE	150
11.	EVALUATION	16		INFORMATICS PRACTICES	150
				MULITMEDIA AND WEB TECHNOLOGY	150
	TOTAL VOC CONTENT	**350**		**TOTAL GENERAL CONTENT**	**690**
	GRAND TOTAL			**1040 HRS.**	

SPECIALIZATION: PRINTING TECHNOLOGY: NVEQF/P&P/PT/LIV

CERTIFICATE LEVEL- IV

S.NO	VOCATIONAL CONTENT (DETAIL CONTENT AT L_All_Vocational_Ed_Printing)	HRS.	S.NO	GENERAL CONTENT	HRS.
1.	REVISION	20	1. 2.	**SUBJECT OF STUDIES** **I&II TWO LANGUAGES OUT OF FOLLOWING** HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KASHMIRI, KANNADA, MARATHI, MALYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, SANSKRIT, ARABIC, PERSIAN, LIMBOO, LEPCHA, BHUTIA, MIZO, TANGKHUL, BODO, NEPALI, TIBETAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN AND SPANISH. **(DETAIL CONTENT AT L_4_Language)** **LANGUAGE I** **LANGUAGE II**	120 120
2.	PRACTICAL AT WORKSHOP	80		**ANY THREE PAPERS OUT OF FOLLOWING** **(DETAIL CONTENT AT L_4_General_Ed_Science_Stream)**	
3.	SPECIALIZED SECTOR PREFERENCE	70		MATHEMATICS	150
4.	PACKAGE PRODUCTION	20		PHYSICS	150
5.	PRESS ROOM CONSUMABLES	15		CHEMISTRY	150
6.	NEWSPAPER PUBLICATION/EDITING	25		BIOLOGY	150
7.	CORRUGATED BOX MANUFACTURING	20		BIOTECHNOLOGY	150
8.	SECURITY PRINTING	20		ENGINEERING GRAPHICS	150
9.	VALUE ADDED FINISHING	20		AGRICULTURE	150

10.	MAINTENANCE	20		COMPUTER SCIENCE	150
11.	TECHNICAL KNOWLEDGE	20		INFORMATICS PRACTICES	150
12.	EVALUATION	20		MULITMEDIA AND WEB TECHNOLOGY	150
	TOTAL VOC CONTENT	**350**		**TOTAL GENERAL CONTENT**	**690**
	GRAND TOTAL			**1040 HRS.**	

SPECIALIZATION: PRINTING TECHNOLOGY: NVEQF/P&P/PT/LV

CERTIFICATE LEVEL- V

S.NO	VOCATIONAL CONTENT (DETAIL CONTENT AT L_All_Vocational_Ed_Printing)	HRS.	S.NO	GENERAL CONTENT	HRS.
1.	REVISION	32		**ANY THREE PAPERS OUT OF FOLLOWING** **(DETAIL CONTENT AT L_5_General_Ed_Science_Stream)**	
2.	SPECIFIC AREA KNOWLEDGE PRACTICAL	194		MATHEMATICS	180
3.	PACKAGE PRODUCTION	45		PHYSICS	180
4.	RAW MATERIAL	20		CHEMISTRY	180
5.	PROCUREMENT KNOWLEDGE	20		COMPUTER SCIENCE	180
6.	RECORDING AND REPORTING	20		APPLIED STATISTICS	180
7.	COSTING KNOWLEDGE	20		BOTANY	180
8.	VALUE ADDED FINISHING	20		ZOOLOGY	180
9.	SUPERVISORY SKILL	35		BIOCHEMISTRY	180
10.	MARKETING	35		MICROBIOLOGY	180
11.	THEORETICAL KNOWLEDGE (Q/A) EVALUATION	59		ELECTRONICS	180
	TOTAL VOC CONTENT	**500**		**TOTAL GENERAL CONTENT**	**540**
	GRAND TOTAL			**1040 HRS.**	

SPECIALIZATION: PRINTING TECHNOLOGY: NVEQF/P&P/PT/LVI

CERTIFICATE LEVEL- VI

S.NO	VOCATIONAL CONTENT (DETAIL CONTENT AT L_All_Vocational_Ed_Printing)	HRS.	S.NO	GENERAL CONTENT	HRS.
1.	REVISION	32		**ANY TWO PAPERS OUT OF FOLLOWING** **(DETAIL CONTENT AT L_6_General_Ed_Science_Stream)**	
2.	SPECIFIC AREA KNOWLEDGE PRACTICAL	180		MATHEMATICS	250
3.	PACKAGE PRODUCTION/FINISH	46		PHYSICS	250
4.	MAINTENANCE	38		CHEMISTRY	250
5.	RAW MATERIAL TESTING PROCUREMENT KNOWLEDGE	38		COMPUTER SCIENCE	250
6.	RECORDING AND REPORTING	26		APPLIED STATISTICS	250
7.	COSTING KNOWLEDGE	24		BOTANY	250
8.	VALUE ADDED FINISHING	32		ZOOLOGY	250
9.	SUPERVISORY SKILL	38		BIOCHEMISTRY	250
10.	MARKETING EXPERIENCE	32		MICROBIOLOGY	250
11.	THEORETICAL KNOWLEDGE (Q/A) EVALUATION	64		ELECTRONICS	250
	TOTAL VOC CONTENT	**550**		**TOTAL GENERAL CONTENT**	**500**
	GRAND TOTAL			**1050 HRS.**	

SPECIALIZATION: PRINTING TECHNOLOGY: NVEQF/P&P/PT/LVII

CERTIFICATE LEVEL- VII

S.NO	VOCATIONAL CONTENT (DETAIL CONTENT AT L_All_Vocational_Ed_Printing)	HRS.	S.NO	GENERAL CONTENT	HRS.
1.	REVISION	32		**ANY ONE PAPER OUT OF FOLLOWING** **(DETAIL CONTENT AT L_7_General_Ed_Science_Stream)**	
2.	SPECIFIC AREA KNOWLEDGE	250		MATHEMATICS	300
3.	PACKAGE PRODUCTION/FINISH	68		PHYSICS	300
4.	MAINTENANCE	48		CHEMISTRY	300
5.	RAW MATERIAL TESTING	32		COMPUTER SCIENCE	300
6.	PROCUREMENT KNOWLEDGE	32		APPLIED STATISTICS	300
7.	RECORDING AND REPORTING	48		BOTANY	300
8.	COSTING KNOWLEDGE	40		ZOOLOGY	300
9.	VALUE ADDED FINISHING	40		BIOCHEMISTRY	300
10.	SUPERVISORY SKILL	72		MICROBIOLOGY	300
11.	MARKETING EXPERIENCE THEORETICAL KNOWLEDGE (Q/A EVALUATION	88		ELECTRONICS	300
	TOTAL VOC CONTENT	**750**		**TOTAL GENERAL CONTENT**	**300**
	GRAND TOTAL			**1050 HRS.**	