

Ordinance No. V-147 A

**Bachelor of Medical Laboratory Science
(BMLS)**

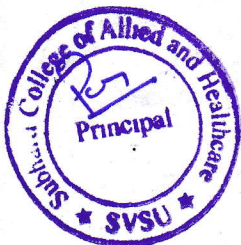
Date of Academic Council meeting: 11.03.2026



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**Department of Medical Laboratory Science
Subharti College of Allied and Healthcare
Faculty of Allied and Health Sciences
Swami Vivekanand Subharti University, Meerut**



Handwritten signatures in blue ink:
Vishu
Meerabhi Mishra
Xachin
[Other illegible signatures]

Date of Academic Council Meeting- 11.03.2026

V-147-A

Ordinance No.....A GOVERNING

FOUR YEARS BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS) PROGRAMME

(FOUR YEARS)

(Effective from: 2026-27)


1. This Ordinance may be called the "Ordinance relating to Bachelor of Medical Laboratory Science (BMLS)" programme. This ordinance has been drafted in accordance with National Commission for Allied and Healthcare Professions (NCAHP) guidelines; all future updates issued by the NCAHP will be strictly implemented.
2. This ordinance shall be applicable from the Academic Session 2026-27.
3. Bachelor of Medical Laboratory Science (BMLS) shall be conducted in the Department of Medical Laboratory Science under the Subharti College of Allied and Healthcare, Faculty of Allied Health Sciences.

I. GENERAL PROVISION

1. The programme of study leading to BMLS of SVSU shall be of four years duration including one-year compulsory internship.
4. The programme of study leading to BMLS of the SVSU shall be conducted in the Department of Medical Laboratory Science under the Subharti College of Allied and Healthcare, Faculty of Allied Health Sciences.
2. The admission to BMLS programme shall be dealt with by the Director Admission Cell and Principal, the last date for the receipt of the application form shall be fixed by the Director, Admission Cell as per the guidelines received from the Uttar Pradesh State Allied and Healthcare Council (UPSAHC).
3. The candidate seeking admission will have to apply on a prescribed format available from the University on payment of prescribed fee.

A. Admission Eligibility Criteria

- a. Candidate must have passed Senior Secondary (10+2) or equivalent with Physics, Chemistry, Biology (Botany + Zoology) subjects.
- b. Admission on the basis of Senior Secondary (10+2) merit.
- c. Candidates who have studied abroad and have possess equivalent qualification as determined by the Association of Indian Universities and Equivalence Committee of the NCAHP and fulfil the above criteria shall also be eligible for admission.
- d. Candidates must be 17 years as on December 31 of the year of admission to first year of Bachelor of Optometry course.


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- e. Candidates must furnish a certificate of Physical fitness from an Authorized Medical Professional, at the time of application, to ascertain that the candidate does not have any physical disability.

Provision of Lateral Entry

Lateral entry to the candidates in second year (3rd semester) who have passed Diploma in Medical Laboratory Technology (D. MLT) with 50% marks.

B. Intake: The intake to BMLS programme shall be 40.

C. Degree Awarded: Bachelor of Medical Laboratory Science (BMLS)

II. CONDUCT OF THE PROGRAMME

1. A candidate admitted to the BMLS programme shall be permitted to appear at University examinations only when he/she has been enrolled as a student of the SVSU and has submitted the migration certificate and paid the enrollment fee prescribed herein after by the ordinances.
2. To qualify for the BMLS programme, the candidate must earn the prescribed number of credits as contained in the course structure/syllabus detailed herein after.
3. A student of the BMLS programme shall not be permitted to seek admission concurrently to any other equivalent or higher degree or diploma examination in the university.
4. **Programme Completion Timeline**
All academic coursework must be completed within **8 years** from the date of admission.
Note: Failure to complete the programme within the stipulated maximum duration will result in **automatic exit** from the programme.
5. Inter-University Ordinances i) Notwithstanding anything contained in these ordinances a student who is qualified under the foregoing ordinances for admission to the university, and who is a member of some other Indian University, shall not be admitted to the university or any constituent college/faculty thereof without the production of: a) A leaving or transfer certificate signed by the Principal of the last college attended and certifying to the satisfactory conduct of the student mentioning the highest examination he/she has passed, and b) A certified copy of all the entries against his/her name in the Enrollment Register of the University if such a copy is obtainable.
6. A student of some other Indian University shall in any case be admitted only at the beginning of the particular course which he/she proposes to take in the University.

III. ATTENDANCE RULES

A candidate has to secure minimum-

1. 80% attendance in theoretical.
2. 80% in skill training (practical) for qualifying to appear for the final examination.
No relaxation, whatsoever, will be permissible to this rule under any ground including indisposition etc.

Duration of the programme

Duration of the programme is 4 years or 8 semesters.

- Total number of hours: 4125
- Total Credits: 160

Medium of instruction

English shall be the medium of instruction for all the subject of study and for examination of the course.

IV. COURSE STRUCTURE AND SCHEME OF EXAMINATION OF BMLS PROGRAMME

Candidates for the four years BMLS examination shall be examined in the following subjects in accordance with the syllabi or course prescribed in the following ordinances.

1. Course Structure:

The BMLS programme shall be of four years duration. A student is required to offer compulsory courses of **160 credits** in four years as per the details given below. The various courses to be offered in these four years are given below.

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Course Structure

Semester	Course	Code	Credit (L+T+P)*
I	Human Anatomy	BMLS-001	3+1+0
I	Human Physiology	BMLS-002	3+1+0
I	Fundamentals of the Healthcare System and Medical Laboratory Science (MLS)	BMLS-003	2+0+0
I	Communication and Professionalism	BMLS-004	2+0+0
I	Basic Emergency care and First aid	BMLS-005	1+1+0
I	Basics of Computer Application	BMLS-006	1+0+1
I	Human Anatomy Practical	BMLS-007	0+0+4
I	Human Physiology Practical	BMLS-008	0+0+4
II	Fundamentals of Microbiology	BMLS-009	4+0+0
II	Basics of Biochemistry	BMLS-010	4+0+0
II	Fundamentals of Haematology	BMLS-011	4+0+0
II	Preventive and Social Medicine	BMLS-012	2+0+0
II	Fundamentals of Microbiology Practical	BMLS-013	0+0+4
II	Basics of Biochemistry Practical	BMLS-014	0+0+4
II	Fundamentals of Haematology Practical	BMLS-015	0+0+4
III	Bacteriology	BMLS-016	4+0+0
III	Intermediary Metabolism and Endocrinology	BMLS-017	4+0+0
III	Clinical Haematology	BMLS-018	4+0+0
III	Basics of Pharmacology	BMLS-019	2+0+0
III	Bacteriology Practical	BMLS-020	0+0+4
III	Intermediary Metabolism and Endocrinology Practical	BMLS-021	0+0+4
III	Clinical Haematology- Practical	BMLS-022	0+0+4

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IV	Virology and Immunology	BMLS-023	4+0+0
IV	Genetics and Molecular Biology	BMLS-024	4+0+0
IV	Clinical Pathology	BMLS-025	4+0+0
IV	Medical Laboratory Management and Quality Control	BMLS-026	2+0+0
IV	Virology and Immunology Practical	BMLS-027	0+0+4
IV	Genetics and Molecular Biology Practical	BMLS-028	0+0+4
IV	Clinical Pathology Practical	BMLS-029	0+0+4
V	Mycology & Parasitology	BMLS-030	4+0+0
V	Analytical Biochemistry	BMLS-031	4+0+0
V	Immunohematology and Transfusion Medicine	BMLS-032	4+0+0
V	Medical Law and Ethics	BMLS-033	2+0+0
V	Mycology & Parasitology Practical	BMLS-034	0+0+4
V	Analytical Biochemistry Practical	BMLS-035	0+0+4
V	Immunohematology and Transfusion Medicine Practical	BMLS-036	0+0+4
VI	Applied Pathobiology	BMLS-037	4+0+0
VI	Cytology and Histopathology	BMLS-038	4+0+0
VI	Clinical Biochemistry	BMLS-039	4+0+0
VI	Biostatistics and Research Methodology	BMLS-040	2+0+0
VI	Cytology and Histopathology Practical	BMLS-041	0+0+4
VI	Clinical Biochemistry Practical	BMLS-042	0+0+4
VI	Applied Pathobiology Practical	BMLS-043	0+0+4
VII	INTERNSHIP-I (Clinical Lab posting/Research Dissertation)	BMLS-044	-
VIII	INTERNSHIP-II (Clinical Lab posting/Research Dissertation)	BMLS-045	-

*L- Lecture, T-Tutorial, P- Practical

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SUMMARY OF CREDIT SYSTEM
FOR BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)

S. No.	Semester	NO. OF CREDITS
1	I	20
2	II	20
3	III	20
4	IV	20
5	V	20
6	VI	20
7	VII	20
8	VIII	20
GRAND TOTAL		160

Total credits = 160 credits

Total Contact hours = 4125

Contact hours of all semesters = (375+390+390+390+390+390) + (900+900)

Credit Details:

Lecture/Tutorial: 1 credit = 15 hours

Practical: 1 credit = 30 hours

Clinical Lab posting: 1 credit = 45 hours

Credit Includes: L-Lectures, T-Tutorials, P-Practical

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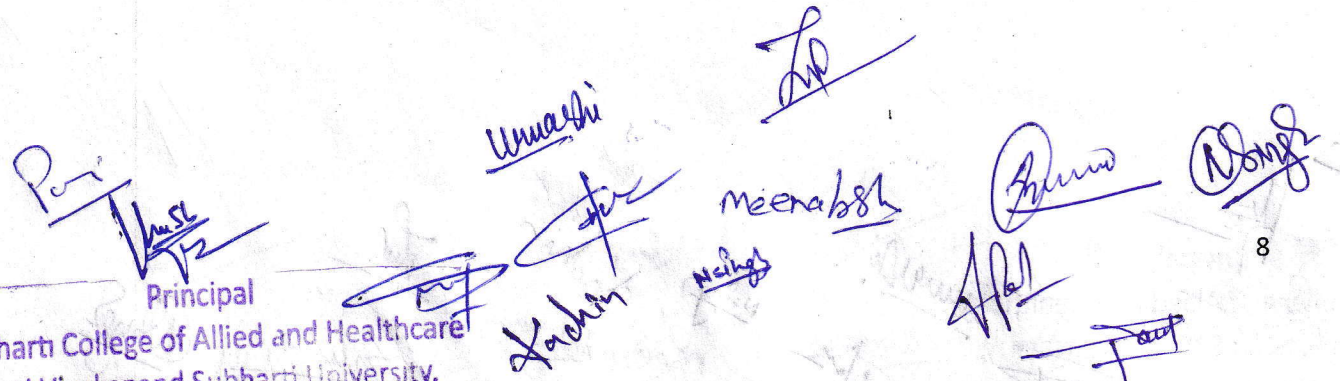
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**Distribution of Marks, Teaching Subjects and Examination Evaluation Scheme
Programme: Bachelor of Medical Laboratory Science, IInd Semester**

S. No	Subject code	Subject Name	Hours Per Week				Examination Scheme				Grand Total
			L	T	P	C	Theory Marks		Practical Marks		
							UE	CCE	UE	CCE	
1	BMLS-009	Fundamentals of Microbiology	4	0	0	4	70	30	-	-	100
2	BMLS-010	Basics of Biochemistry	4	0	0	4	70	30	-	-	100
3	BMLS-011	Fundamentals of Haematology	4	0	0	4	70	30	-	-	100
4	BMLS-012	Preventive and Social Medicine	2	0	0	2	70	30	-	-	100
5	BMLS-013	Fundamentals of Microbiology Practical	0	0	4	2	-	-	70	30	100
6	BMLS-014	Basics of Biochemistry Practical	0	0	4	2	-	-	70	30	100
7	BMLS-015	Fundamentals of Haematology Practical	0	0	4	2	-	-	70	30	100
Total			14	0	12	20	280	120	210	90	700

Abbreviations: L- Lecture, T-Tutorial, P- Practical, C- Credit, CCE- Continuous Comprehensive Evaluation, UE- University External



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**Distribution of Marks, Teaching Subjects and Examination Evaluation Scheme
Programme: Bachelor of Medical Laboratory Science, IIIrd Semester**

S. No	Subject code	Subject Name	Hours Per Week				Examination Scheme				Grand Total
			L	T	P	C	Theory Marks		Practical Marks		
							UE	CCE	UE	CCE	
1	BMLS-016	Bacteriology	4	0	0	4	70	30	-	-	100
2	BMLS-017	Intermediary Metabolism and Endocrinology	4	0	0	4	70	30	-	-	100
3	BMLS-018	Clinical Haematology	4	0	0	4	70	30	-	-	100
4	BMLS-019	Basics of Pharmacology	2	0	0	2	70	30	-	-	100
5	BMLS-020	Bacteriology Practical	0	0	4	2	-	-	70	30	100
6	BMLS-021	Intermediary Metabolism and Endocrinology Practical	0	0	4	2	-	-	70	30	100
7	BMLS-022	Clinical Haematology-Practical	0	0	4	2	-	-	70	30	100
Total			14	0	12	20	280	120	210	90	700

Abbreviations: L- Lecture, T-Tutorial, P- Practical, C- Credit, CCE- Continuous Comprehensive Evaluation, UE- University External

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**Distribution of Marks, Teaching Subjects and Examination Evaluation Scheme
Programme: Bachelor of Medical Laboratory Science, IVth Semester**

S. No	Subject code	Subject Name	Hours Per Week				Examination Scheme				Grand Total
			L	T	P	C	Theory Marks		Practical Marks		
							UE	CCE	UE	CCE	
1	BMLS-023	Virology and Immunology	4	0	0	4	70	30	-	-	100
2	BMLS-024	Genetics and Molecular Biology	4	0	0	4	70	30	-	-	100
3	BMLS-025	Clinical Pathology	4	0	0	4	70	30	-	-	100
4	BMLS-026	Medical Laboratory Management and Quality Control	2	0	0	2	70	30	-	-	100
5	BMLS-027	Virology and Immunology Practical	0	0	4	2	-	-	70	30	100
6	BMLS-028	Genetics and Molecular Biology Practical	0	0	4	2	-	-	70	30	100
7	BMLS-029	Clinical Pathology Practical	0	0	4	2	-	-	70	30	100
Total			14	0	12	20	280	120	210	90	700

Abbreviations: L- Lecture, T-Tutorial, P- Practical, C- Credit, CCE- Continuous Comprehensive Evaluation, UE- University External

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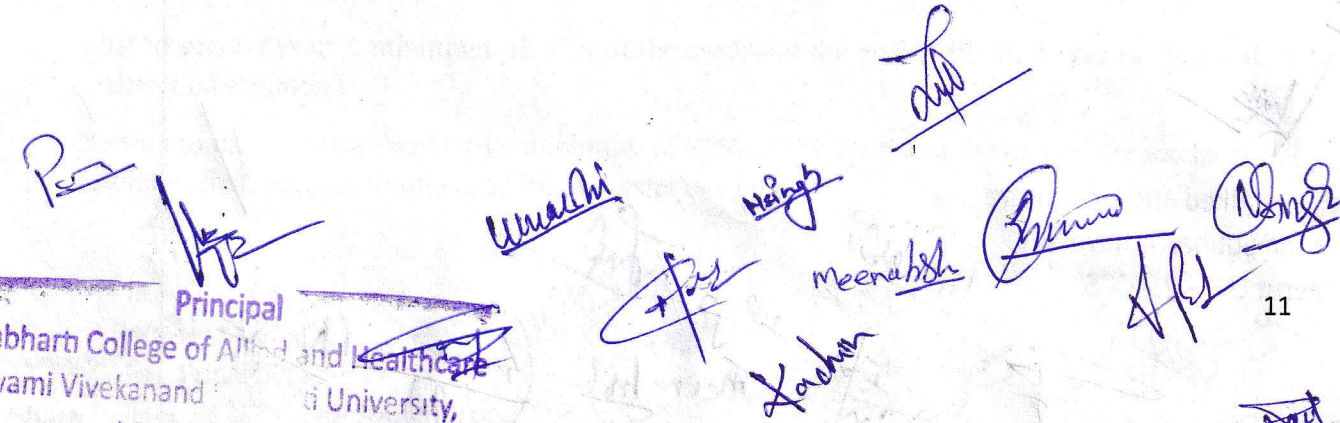
Shruti

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Distribution of Marks, Teaching Subjects and Examination Evaluation Scheme
Programme: Bachelor of Medical Laboratory Science, Vth Semester

S. No	Subject code	Subject Name	Hours Per Week				Examination Scheme				Grand Total
			L	T	P	C	Theory Marks		Practical Marks		
							UE	CCE	UE	CCE	
1	BMLS-030	Mycology & Parasitology	4	0	0	4	70	30	-	-	100
2	BMLS-031	Analytical Biochemistry	4	0	0	4	70	30	-	-	100
3	BMLS-032	Immunohematology and Transfusion Medicine	4	0	0	4	70	30	-	-	100
4	BMLS-033	Medical Law and Ethics	2	0	0	2	70	30	-	-	100
5	BMLS-034	Mycology & Parasitology Practical	0	0	4	2	-	-	70	30	100
6	BMLS-035	Analytical Biochemistry Practical	0	0	4	2	-	-	70	30	100
7	BMLS-036	Immunohematology and Transfusion Medicine Practical	0	0	4	2	-	-	70	30	100
Total			14	0	12	20	280	120	210	90	700

Abbreviations: L- Lecture, T-Tutorial, P- Practical, C- Credit, CCE- Continuous Comprehensive Evaluation, UE- University External



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**Distribution of Marks, Teaching Subjects and Examination Evaluation Scheme
Programme: Bachelor of Medical Laboratory Science, VIIth Semester**

S. No	Subject code	Subject Name	Credits	Evaluation Scheme		Grand Total
				UE	CCE	
1	BMLS-044	INTERNSHIP-I (Clinical Lab posting/Research Dissertation)	20	210	90	300
Total			20	210	90	300

Abbreviations: CCE- Continuous Comprehensive Evaluation, UE- University External

**Distribution of Marks, Teaching subjects and Examination evaluation scheme
Programme: Bachelor of Medical Laboratory Science, VIIIth Semester**

S. No	Subject code	Subject Name	Credits	Evaluation Scheme		Grand Total
				UE	CCE	
1	BMLS-045	INTERNSHIP-II (Clinical Lab posting/Research Dissertation)	20	210	90	300
Total			20	210	90	300

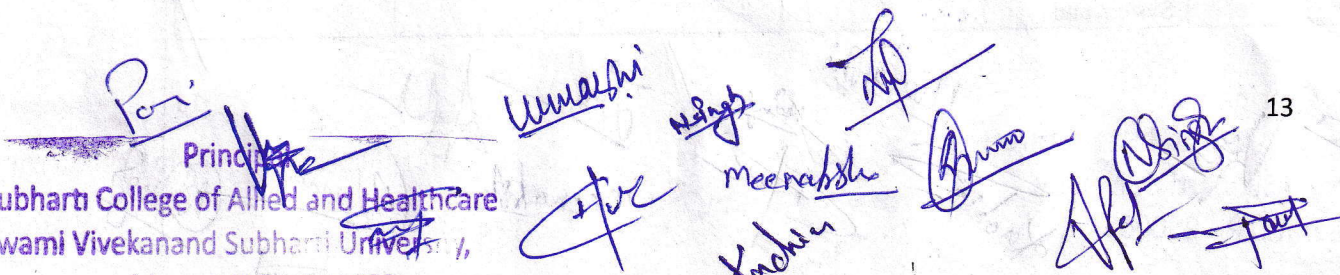
Abbreviations: CCE- Continuous Comprehensive Evaluation, UE- University External

Promotion Criteria to higher semesters:

The eligibility for promotion to the next academic year is subject to securing the minimum academic performance as specified below

First to second year: a minimum of 70% of the credits at the end of the first year (includes first and second semester)

Second to third year: a cumulative minimum of 80% of the credits at the end of the second year (includes first, second, third and fourth semester)



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Third year to Internship/group project: Students will be eligible for internship (Lab posting/ research dissertation) only after successful completion of the entire coursework, i.e. 100% credits to be accrued by the end of the third year.

The student must complete all the coursework requirements within a maximum of double the programme duration. For example, in a 4-year programme, all the academic coursework needs to be completed within 8 years. Failure to do so will result in exit from the programme.

Weightage distribution

Item	Weightage
Formative	
Class participation/presentation	5%
Assignment & quizzes	5%
Sessional exams	20%
Summative	
End-of-Semester University exam	70%
Total	100%

- Any component /activities that need to be evaluated as part of the internship, without reflecting them in the CGPA.
-

Point grading system (credit value)

Letter grade	A+	A	B	C	D	E	F/I/DT
Credit Value	10	9	8	7	6	5	0

F- Fail, DT-Detained/Attendance shortage, I-Incomplete

Internal Weightage (%)	End Semester Exam Weightage (%)
30	70

Calculation of GPA & CGPA: An example is provided

Course code	Course	Credits (a)	Grade obtained by the student	Credit value (b)	Grade Points (a x b)
BMLS-001	Human Anatomy	4	D	6	24
BMLS-002	Human Physiology	4	B	8	32
BMLS-003	Fundamentals of the Healthcare System and	2	A+	10	20

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	Medical Laboratory Science (MLS)				
BMLS-004	Communication and Professionalism	2	C	7	14
BMLS-005	Basic Emergency care and First aid	2	A	9	18
BMLS-006	Basics of Computer Application	2	B	8	16
BMLS-007	Human Anatomy Practical	2	A	9	18
BMLS-008	Human Physiology Practical	2	A	9	18
Total		20	-	-	160

1st Semester GPA = Total grade points / total credits
= 160/20 = **8.0**

Suppose in the 2nd semester, **GPA = 8.35** with respective course credit 20

Then, 1st Year CGPA = $(8.0 \times 20) + (8.35 \times 20) / 20 + 20$
= **8.17**

Progression Criteria to Higher Semesters

Eligibility for promotion to the next academic year is based on the following minimum academic performance requirements:

First Year to Second Year:

A student must secure a minimum of **70% of the total credits** at the end of the first year (i.e., completion of both the first and second semesters).

Second Year to Third Year:

A student must secure a **cumulative minimum of 80% of the total credits** at the end of the second year (i.e., completion of the first to fourth semesters).

Third Year to Internship/Group Project:

A student will be eligible to commence the **Internship (Lab posting/ Research Dissertation)** only after the **successful completion of all coursework**, i.e., **100% of the credits** must be earned by the end of the third year.

7th and 8th Semester: Internship (Lab posting/ Research dissertation):

A compulsory internship (Lab posting/ Research dissertation) of one year - equivalent to 12 months, 52 weeks, or 1800 hours - carrying 40 credits, must be completed by each student to be eligible for the award of the **Bachelor of Medical Laboratory Science (BMLS)**.

If a student opts for Research dissertation, it must be of a minimum duration of 6 months.

During the internship period, students are required to adhere to the rules and regulations of the host organisation.

Upon successful completion, students will receive an Internship Certificate that includes:


A summary of activities undertaken

Details of clinical or relevant departmental postings with corresponding hours

Information on any research project completed during research dissertation

The certificate must be authenticated by the **Dean/ Head of Department (HoD)/Coordinator and the Head of the Institution (HoI)**.

Note: The Bachelor's Degree will be awarded only upon successful completion of the Internship requirements.


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