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## Development of criteria for test and assessment of academic results of high-quality curriculum for students majoring in basketball of sport training discipline under bac NINH sports university

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### Abstract

The research process have developed the criteria for test and assessment of academic results of high quality curriculum for students majoring in Basketball of Sport Training discipline in each module in accordance with the curriculum's practical conditions aiming to accurately assess learners' competencies and ensure the enhanced quality of training for bachelors of Bac Ninh Sports University.

**Keywords:** Criteria, test, assessment, academic results, sport training discipline

### Introduction

Following Decision 652/ QD-TDTTBN dated June 28, 2019 of the Rector of Bac Ninh Sports University on "Development of high-quality curriculum for Sport Training discipline", aiming at training high-quality human resources for Training discipline in general and in of Bac Ninh Sports University, Sport Training discipline, Basketball major in particular. Basketball division conducted to research and development of criteria for test and assessment with 07 modules in the curriculum. Development of accurate and objective criteria for test and assessment consistent with the curriculum and suitable for learners is absolutely necessary for the actual situation. The enhanced quality of teaching for Physical Education and Sports officials majoring in basketball of Sport Training Discipline under Bac Ninh Sports University is very urgent.

### Research methods

During the research, we used the following methods: Material references, pedagogical observations, interviews and statistical mathematics.

### Results and discussion

#### 1. Determination of criteria for test and assessment of academic results of the high-quality curriculum for students majoring in Basketball, Sport Training Discipline under Bac Ninh Sports University

Pursuant to Decision No. 17/VBHN-BGDDT dated May 15, 2014 by the Minister of Education and Training on "*Regulation on full-time training of universities and colleges according to the credit system.*"

Pursuant to the Circular No. 23/2014/TT-BGDDT dated July 18, 2014 by the Minister of Education and Training on "*Promulgation of regulations on high quality training at University level.*". Issued together with Circular No. 23/2014/TT-BGDDT dated July 18, 2014 by the Minister of Education and Training.

Based on the content of the high-quality curriculum for Basketball major of Sport Training Discipline under Bac Ninh, which has been developed by the Basketball Division, approved by the evaluation council. Based on the testsfor assessment ofacademic results in modules to build a scale for each content of test.

The above test process for each module is conducted in stages: Conducting tests after each

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term. Examining with selected tests to determine reliability, suitability, level of achievement improvement of the criteria, thereby serving as a basis for specifying scale for assessment

and criteria for assessment and classification. The test results are shown from Table 1 to Table 7.

**Table 1:** Scale for assessment of academic results of module 1

No.	Contents of tests	Gender	Mark										
			10	9	8	7	6	5	4	3	2	1	
1.	Free throw on the spot 10 times. (dunk shots)	Male	7	6	5	4	3	2	1	0	0	0	
		Female	6	5	4	3	2	1	1	0	0	0	
2.	Two-step dribbling and one-handed overhead shot 20 times (dunk shots)	Male	>18	17	16	15	14	13	12	11	10	9	
		Female	>17	16	15	14	13	12	11	10	9	8	
3.	Moving and two-handed chest pass	-	A			B			C			D	
4.	Physical fitness: Running 1500m (male) and 800m (female)	Male	5.15	5.22	5.30	5.35	5.43	5.50	5.58	6.03	6.10	6.15	
		Female	3.00	3.10	3.15	3.25	3.34	3.43	3.54	4.03	4.10	4.20	

### Guide to technical assessment

No.	Contents of tests	Assessment			
		A	B	C	D
1.	Free throw 10 times (Technique of one-handed overhead shot on the spot)	<ul style="list-style-type: none"> <li>- Correct preparation posture</li> <li>- Rhythmically coordinating among hand, feet, body movements</li> <li>- Raising arm</li> <li>- Folding wrist, pressing fingers on the ball, ones leaving the ball last are index and middle</li> </ul>	Lack of 1 of 4 above elements	Lack of 2 of 4 above elements	Lack of 3 elements or more
2.	Two-step dribbling and one-handed overhead shot.	<ul style="list-style-type: none"> <li>- Step 1 jumping from long distance and catching the ball in the air</li> <li>- Step 2 raising thigh, putting the ball to the throwing position by hand</li> <li>- Lowering thigh and raising hand to shoot, the body stops in the air</li> <li>- Folding wrist, pressing fingers on the ball, ones leaving the ball last are index and middle</li> </ul>	Lack of 1 of 4 above elements	Lack of 2 of 4 above elements	Lack of 3 elements or more
3.	Moving and two-handed chest pass.	<ul style="list-style-type: none"> <li>- Catching the ball and taking 2 pass steps correctly</li> <li>- Upon pass, pushing 2 hands straight, folding wrist, pressing fingers on the ball</li> <li>- Passing the ball in front of the receiver so that the ball comes, the person comes</li> <li>- Performing quick moves to catch the ball and taking 2 shot steps</li> </ul>	Lack of 1 of 4 above elements	Lack of 2 of 4 above elements	Lack of 3 elements or more

**Table 2:** Scale for assessment of academic results of module 2

No.	Contents of tests	Gender	Mark										
			10	9	8	7	6	5	4	3	2	1	0
1.	One-handed overhead shot on the spot 20 times (dunk shots)	Male	15	14	13	12	11	10	9	8	7	6	5
		Female	14	13	12	11	10	9	8	7	6	5	4
2.	Beyond dribbling with forward and backward hook 20 times (dunk shots)	Male	17	16	15	14	13	12	11	10	9	8	7
		Female	16	15	14	13	12	11	10	9	8	7	6
3.	Go over the back 20 times (10 - right, 10-left)	Male	16	15	14	13	12	11	10	9	8	7	7
		Female	15	14	13	12	11	10	9	8	7	6	5
4.	Dribbling the ball and spinning 360° before changing hand (s)	Male	18"	19"	20"	20"	21"	21"	22"	22"	23"	23"	23"
		Female	20"	21"	22"	22"	23"	23"	24"	24"	25"	25"	25"

**Note:** The content of Go over the back determines the number of dunk shots and technical assessment, technique A keeps the point, B – (minus) 1 mark, C – 2 marks, D – 3 marks.

### Guide to technical assessment

No.	Contents of tests	Assessment			
		A	B	C	D
1.	Beyond dribbling with forward and backward hook	<ul style="list-style-type: none"> <li>- Step 1 jumping from long distance and catching the ball in the air</li> <li>- Step 2 raising thigh, putting the ball to the throwing position by hand</li> <li>- Lowering thigh and raising hand to shoot, the body stops in the air</li> <li>- Folding wrist, pressing fingers on the ball, whirling the ball into the basket</li> </ul>	Lack of 1 of 4 above elements	Lack of 2 of 4 above elements	Lack of 3 elements or more
2.	Go over the back stepping on right/left handed side	<ul style="list-style-type: none"> <li>- Dummy movement is made normally, the real one - fast.</li> <li>- Long steps past the defensive position, turning shoulder to block the ball</li> <li>- Taking 2 shot steps</li> </ul>	Failure to complete element 2	Lack of first 2 elements	Lack of 3 elements
3.	Dribbling the ball and spinning 360° before changing hand	<ul style="list-style-type: none"> <li>- The centre is lowered, upon spinning is not undulating</li> <li>- Do not tilt the hand when changing hands</li> <li>- On last spinning, dribbling the ball and shot one time</li> </ul>	Violation of element 2	Violation of elements 1 and 3	Violation of all 3 elements

**Table 3:** Scale for assessment of academic results of module 3

No.	Contents of tests	Gender	Mark										
			10	9	8	7	6	5	4	3	2	1	0
1.	One-handed overhead shot on the spot 20 times (dunk shots)	Male	16	15	14	13	12	11	10	9	8	7	6
		Female	15	14	13	12	11	10	9	8	7	6	5
2.	One-handed overhead jump shot on the spot 10 times (dunk shots)	Male	7	6	5	4	3	2	1	0	0	0	0
		Female	6	5	4	3	2	1	0	0	0	0	0
3.	Spinning and jump shot on the spot 10 times (dunk shots)	Male	8	7	6	5	4	3	2	1	0	0	0
		Female	7	6	5	4	3	2	1	0	0	0	0
4.	Running 20m x 100 times	Male	8'	8'30	9'	9'30	10'	10'30	11'	11'30	12'	12'30	12'35
		Female	9'10	9'40	10'10	10'40	11'10	11'40	12'10	12'40	13'10	13'40	13'45

**Guide to technical assessment**

No.	Contents of tests	Assessment			
		A	B	C	D
1.	One-handed overhead jump shot on the spot	<ul style="list-style-type: none"> <li>- Correct preparation posture</li> <li>- Jumping, putting the ball to the throwing position with two hands</li> <li>- The body stops in the air, raising arm, folding wrist, pressing fingers on the ball, ones leaving the ball last are index and middle</li> <li>- Falling to the ground with 2 feet to prepare for the next movement</li> </ul>	Failure to complete element 2	Lack of 2 of 4 above elements	Lack of 3 elements or more
2.	Spinning and one-handed overhead jump shot on the spot	<ul style="list-style-type: none"> <li>- Correct preparation posture, performing the technique of spinning towards the basket</li> <li>- Jumping, putting the ball to the throwing position with two hands</li> <li>- The body stops in the air, raising arm, folding wrist, pressing fingers on the ball, ones leaving the ball last are index and middle</li> <li>- Falling to the ground with 2 feet to prepare for the next movement</li> </ul>	Failure to complete element 2	Lack of first 2 elements	Lack of 3 elements

**Table 4:** Scale for assessment of academic results of module 4

No.	Contents of tests	Gender	Mark										
			10	9	8	7	6	5	4	3	2	1	0
1.	One-handed overhead shot on the spot 30 times. (dunk shots)	Male	20	19	18	17	16	15	14	13	12	11	10
		Female	19	18	17	16	15	14	13	12	11	10	9
2.	One-handed overhead jump shot on the spot 20 times (dunk shots)	Male	13	12	11	10	9	8	7	6	5	4	3
		Female	12	11	10	9	8	7	6	5	4	3	2
3.	Long-distance shot 20 times (dunk shots)	Male	11	10	9	8	7	6	5	4	3	2	1
		Female	10	9	8	7	6	5	4	3	2	1	0
4.	Practice of working as the referee to control the game It is required that the referee on court meets 8 following elements (violating one of the above elements will be minus 1 mark.)	<b>How to assess</b>											
		(1)	Clothes, style as prescribed										
		(2)	Definitely blowing the whistle as prescribed on blowing for the fault, breaking the rules, pause...										
		(3)	Signals informed to secretaries is nice and accurate.										
		(4)	Detecting and dealing with situations accurately.										
		(5)	Moving in right position when the ball is in fast attack and local attack										
		(6)	Coordinating 2, 3 referees in case of fault or change in position.										
		(7)	Controlling and observing when the free throws are in the right position and giving right signals.										
(8)	Standing in right position when handing the ball over to a player, controlling the ball fighting and move												

**Table 5:** Scale for assessment of academic results of module 5

No.	Contents of tests	Gender	MARK										
			10	9	8	7	6	5	4	3	2	1	0
1.	Free throw on the spot 30 times (dunk shots)	Male	22	21	20	19	18	17	16	15	14	13	12
		Female	21	20	19	18	17	16	15	14	13	12	11
2.	One-handed overhead jump shot on the spot 30 times (dunk shots)	Male	18	17	16	15	14	13	12	11	10	9	8
		Female	17	16	15	14	13	12	11	10	9	8	7
3.	Long-distance shot 30 times (dunk shots)	Male	15	14	13	12	11	10	9	8	7	6	5
		Female	14	13	12	11	10	9	8	7	6	5	4
4.	Dribbling the ball while passing through 8-shaped barriers and shooting 05 times (dunk shot is counted in s)	Male	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"
		Female	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"
5.	Writing essay on Basketball tactics and teaching methods	<b>Topic selected for writing</b>											
		- Presenting concepts of strategy, tactics, classification of basketball tactics. Method of teaching basketball tactics.											
		- Defensive tactics - Teaching method.											
- Tactics of attack - Teaching method													

**Table 6:** Scale for assessment of academic results of module 6

No.	Contents of tests	Gender	Mark										
			10	9	8	7	6	5	4	3	2	1	0
1.	One-handed overhead shot on the spot 30 times (dunk shots)	Male	24	23	22	21	20	19	18	17	16	15	14
		Female	23	22	21	20	19	18	17	16	15	14	13
2.	One-handed overhead jump shot on the spot 30 times (dunk shots)	Male	20	19	18	17	16	15	14	13	12	11	10
		Female	19	18	17	16	15	14	13	12	11	10	9
3.	Long-distance shot 30 times (dunk shots)	Male	16	15	14	13	12	11	10	9	8	7	6
		Female	15	14	13	12	11	10	9	8	7	6	5
4.	Dribbling the ball while passing through 8-shaped barriers and shooting 05 times (dunk shot is counted in s)	Male	26"	26"30	27"	27"30	28"	28"30	29"	29"30	30"	30"30	30"40
		Female	27"30	28"	28"30	29"	29"30	30"	30"30	31"	31"30	32"30	32"40
5.	Practice of preparing teaching plan and teaching Basketball	<b>Requirements</b> - Each content not satisfactory minus 1 mark - For the 8th content alone, not satisfying can be minus up to 2 marks depending on the level of assessment of the lecturer											

### Assessment of preparing teaching plan and teaching practice

Preparing teaching plan, process	Teaching
(1) Preparing teaching plan and process in form of teaching plan in detail, full of learning content. (2) The learning contents are distributed evenly according to the prescribed timing, which is inherited in the process. (3) Contents of the teaching plan contains teaching new techniques or tactics (4) The contents are clearly presented, clearly indicating the points to be noted and required	(5) Nice clothes, style, suitable for practical class (6) Preparing teaching instruments: whistles, watches, charts, courts... appropriate to contents of the teaching plan. (7) Strictly complying with the timing of of teaching contents (8) Giving clear and easy to understand analysis, vision of techniques, tactics (2 marks). (9) Organizing trainees reasonably and appropriately with the teaching contents

**Table 1:** Scale for assessment of academic results of module 7

No.	Contents of tests	Gender	MARK										
			10	9	8	7	6	5	4	3	2	1	0
1.	Free throw on the spot 30 times. (dunk shots)	Male	24	23	22	21	20	19	18	17	16	15	14
		Female	23	22	21	20	19	18	17	16	15	14	13
2.	One-handed overhead jump shot on the spot 30 times (dunk shots)	Male	21	20	19	18	17	16	15	14	13	12	11
		Female	20	19	18	17	16	15	14	13	12	11	10
3.	Long-distance shot 30 times (dunk shots)	Male	17	16	15	14	13	12	11	10	9	8	7
		Female	16	15	14	13	12	11	10	9	8	7	6
4.	Dribbling the ball while passing through 8-shaped barriers and shooting 05 times (dunk shot is counted in s)	Male	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"
		Female	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"
5.	3-referee method (assessed with 03 levels of taking the required steps for referee work)	<b>Assessment with 03 levels</b>											
		(1) How to move as the referee in the right position reaches 03 marks											
		(2) Method of blowing the whistle (signaling) faults: True fault, clear signal reaches 03 marks											
(3) How to report faults and penalty forms according to violations: Reporting the true fault reaches 03 marks													

- The module end/final mark is calculated on a 10-point scale, assessed by the lecturer and rounded up to 0.5 mark.
- The final mark = A + B + C: In which: *Mark of conduct (A) = (Mark x 10): 100: Mid-term mark (B) = (Mark x 30): 100: End mark (C) = (Mark x 60): 100*

In each type of mid-term and final mark, many contents of tests are calculated on a 10-point scale according to the criteria for assessment in the tables from 1 to 6 above. The mark will be calculated as the average of the following contents:

$$\frac{N_1 + N_2 + \dots + N_n}{n}$$

Total mid-term or final mark =

### Conclusion

The research results have developed the method of assessing

the basic technical level at different levels: Classification of the basic technical levels by each criterion, general transcript assessing basic technical levels by each criterion. Defects can be remedied by using a scale C to assess the overall development of professional fitness, in the process of assessment by this method, the rule of compensation can be applied, that is, it is possible to take advantage of one test to compensate weaker tests, so long as the total mark obtained for the tests are within the defined range for assessment. With this assessment method, it is not necessary to pay attention to the achievement of each criterion.

### References

1. Decision No. 17/VBHN-BGDDT dated May 15, 2014 by the Minister of Education and Training on "Regulation on full-time training of universities and colleges according to the credit system."
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