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Designing of skirts for school going girls through CAD

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Abstract
Fashion CAD is an innovative approach to pattern making provided in an integrated suite of software which includes Pattern Design, Grading, Detailing, Marker Layout and a fully featured CAD drafting system. With Fashion CAD one can create a range of sizes or a made to measure sized garment from a standard pattern in seconds. It is quick powerful and accurate – yet provides the flexibility to match your unique requirements at an affordable price. If one understand the requirements of making up in different fabrics and know the fundamentals of pattern making and are frustrated with doing it manually then you will love fashion CAD.

Keywords: Designing, CAD

Introduction
Designers make use of practical knowledge and creative abilities to develop or modify an abstract idea into formal designs for the product such as garments. In case of readymade garments or fabrics, the designers need to be updated on the latest fashions, colour and print preferences among different demographic groups or at different geographical regions. Thus, designers while visualizing and developing designs have to keep into consideration various social, cultural, economical and environmental factors that could make an ultimate product a huge success or failure.

Methodology
The study was conducted in Kanpur district. Five girls' colleges (Intermediate and Graduate courses) in different field like art, science and home science were selected in this study. Total 200 girls were selected in same college in age group (12-18 years) in this study area. Dependent and independent variables were used such as age, education, income, preference, design, colour, Computer Aided Design. The statistical tools were used such as percentage, rank, mean etc.

Results

Table 1: Distribution of respondents according to education

Education level	Frequency	Per cent
Up to Secondary	53	26.5
Up to High School	83	41.5
Up to Intermediate	64	32.0
Total	200	100.0

Table 1 shows that education plays an important role of the respondents in preference of skirts In India high school is a grade of education which includes standards IX to XII standards of the girls who given her opinion about design of skirts. In this modern age, increased level of the dress consciousness of individuals has contributed to the development of innovative designs because it is the most important factor in consumer choice of clothes.

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Table 2: Distribution of school going girls according to type of skirts

Types	Frequency	Per cent
Novelty gathered	65	32.5
Two tied	108	54.0
Straight	76	38.0
A line	63	31.5
Gored	92	46.0
Pegged	30	15.0
Hip rider	28	14.0
Half circular	61	30.5
Full circular	77	38.5
Tulip hemmed	20	10.0
Wrap around	32	16.0
Accordion pleated	14	7.0
Drape	28	14.0
Handkerchief	11	5.5
Layered	6	3.0
Divided	150	75.0
Shirred	17	8.5

Table 2 shows that 75.0 per cent of the respondents preferred divided type skirt is one piece till the crouch point and divided below. This skirt can have gathers or pleats all along its width. 8.5 per cent of the respondents preferred shirred type skirt, which is gathered in the centre front the centre front line is slashed and then gathered. Available in different fabrics like nylon, denim, synthetic, leather, knitted, crepe, georgette, silks and organza, these skirts are perfect wear for any parties or functions. Stitched in proportion to suit the size of the wearer, we offer our range in different sizes from mini skirts, knee length skirts to long slit skirts.

Skirts are prevalent all over the world from the very beginning because it is comfortable. Personality looks beautiful while dressing skirts and exposes body shape and figure. This is why adopters of different types of skirts in the country are much in number. Dressing mini and micro skirts girls look very young.

Table 3: Preferences on the basis of design for skirts

Design	Frequently	Sometimes	Never	Scores	Rank
Check	108 (54.0)	76 (38.0)	16 (8.0)	1.46	I
Bold	32 (16.0)	110 (55.0)	58 (29.0)	0.87	VI
Small	56 (28.0)	70 (35.0)	74 (37.0)	0.91	V
Dots	54 (27.0)	90 (45.0)	56 (28.0)	0.99	IV
Plain	52 (26.0)	78 (39.0)	70 (35.0)	0.91	V
Floral	56 (28.0)	92 (46.0)	52 (26.0)	1.02	III
Geometric	24 (12.0)	76 (38.0)	100 (50.0)	0.62	IX
Abstract	110 (55.0)	52 (26.0)	38 (19.0)	1.36	II
Stripes	50 (25.0)	50 (25.0)	100 (50.0)	0.75	VIII
Stylish	46 (23.0)	72 (36.0)	82 (41.0)	0.82	VII

(Figures in parenthesis indicate percentage of respective values)

Table 3 shows that check fabric without any design was the most preferred one among all the another types of designs with its mean score 1.46. The second rank was secured by the abstract design (score–1.36) and floral and dots were at the III rank and IV rank both having the score 1.02, 0.99 respectively. The score of other designs in the order of preference were plain (score–0.91), small design (score–0.91), stylish design (score–0.82), stripes (score–0.75) and geometric (0.62) respectively. Designers work in close opinion with consumer and create products like skirts in latest trends, fashions and colour in the market and upgrade or modify the products.

The all time skirts are the regular blacks, gray and brown. The colours might look dull but if they are matched by suitable girls' tops then they can become fashion statements also.

Table 4: Distribution of the respondents on the basis of mode of designing

Mode of designing	Frequency	Per cent
Manually	76	38.0
Through computer	63	31.5
Other method	61	30.5
Total	200	100.0

Table 4 shows that 38.0 per cent and only 31.5 per cent of the respondents prefer to get their skirts designed through computers. The new versions of CAD package in 3D capabilities including perspective viewing. In addition it is also possible to stimulate movement or animation of these objects. A great importance of CAD in the field of textiles and designing.

Conclusion
In this modern age, increased level of the dress consciousness of individuals has contributed to the development of innovative designs because it is the most important factor in consumer choice of clothes. Skirts are prevalent all over the world from the very beginning because it is comfortable. Personality looks beautiful while dressing skirts and exposes body shape and figure. This is why adopters of different types of skirts in the country are much in number. Dressing mini and micro skirts girls look very young. The all time skirts are the regular blacks, gray and browns. The colours might look dull but if they are matched by suitable girls tops then they can become fashion statement also.

Recommendations
1. **Pattern Pieces:** Skirts can have anywhere from 2 to 12 or more pattern pieces. Two pattern pieces being the easier skirt to make.
2. **Best Fabric to use:** Just about any fabric can be used to make skirts. Some suggestions are: light weight cotton, denim, corduroy, light weight wool, wool blends, silk, rayon and velvet.

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